

noxa

noxa



PRODUCT CATALOGUE

www.noxa.pl



WHAT IS NOXA?

NOXA – it is the finest brand of air conditioners created as an answer for customers looking for failure-free and user-friendly equipment. On the basis of many technological tests, comparative analyses and customer researches NOXA air conditioners have been created, known as “just right air conditioners”.

WHERE IS NOXA?

NOXA air conditioners are available on Polish and European markets – they are adapted to the customers’ climate conditions.

Production process is conducted in Asia – there you can find the newest production lines of all air conditioning top brands.



HOW DOES NOXA FULFILL ITS PROMISES?



- \ produces units using only the highest class attested materials
- \ carries out thorough quality control from the beginning till the end of production cycle
- \ hires the best air conditioning designers and engineers to create and produce units
- \ needs and expectations of clients in the first place as well as hi-tech solutions and weather conditions are taken into consideration during the process of designing devices
- \ produces its units in the most prestigious factories in the world, which guarantees the highest quality of appliances

NOXA STRATEGY

One aim: to give to the customers air conditioners which are:

- \ functional
- \ intuitive
- \ user-friendly
- \ safe
- \ ecological and economic



AIR CONDITIONING FOR YEARS

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# NOXA FOR YOU

NOXA is an answer to the question: „Can I afford to buy an air conditioner?“ **YES – YOU CAN AFFORD** to have comfort of fresh air in your apartment for the whole year.



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NOXA IS NOT ONLY COMFORT AND EASY WAY OF LIFE but also:

- totally new experience
- something to be proud of
- your next step to the future
- your way of life

In NOXA you will find everything what you need.

Control is easy. Price is very competitive. NOXA gives you a complete and reliable way of cooling and heating for the whole year.

NOXA UNITS ARE DEDICATED TO:



HOUSES



APPARTMENTS



OFFICES




COMMERCIAL PREMISES






CLIMATE DIRECTIVES


The European Union enacted the special Directive, called ErP Directive which specifies requirements for electric energy related products. These requirements provide reduction of primary energy consumption and CO₂ emission, while increasing the use of energy from renewable sources by 20% (3x20 package). These aims have to be fulfilled till 2020.



20%
decrease in
CO₂ emissions



20%
decrease in
the consumption
of primary energy

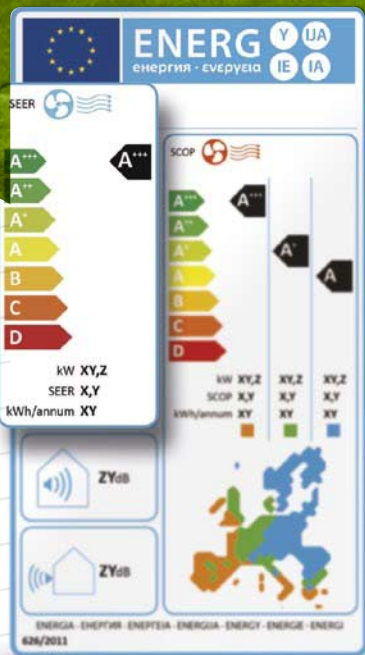


20%
increase in
renewable
energy sources



NOXA AND CLIMATE PROTECTION

NOXA air conditioners meet all restrictive requirements of ErP Directive. It is confirmed by special, certified energy labels which every device is supplied with. Devices operation is also described by SCOP and SEER coefficients which are to help customers choosing the most ecological units. It is easy – look at a label and check which energy class your device represents.



A⁺ A⁺⁺ A⁺⁺⁺

UNITS AVAILABLE IN THE OFFER

NOXA **HAPPY**



NOXA **AIR**

air curtain



NOXA **FAMILY**



air purifier

NOXA **HEAT**

NOXA **AQUA**

4-way cassette

1-way cassette



NOXA **PROFESSIONAL**

ceiling & floor



NOXA MULTI



heat recovery unit



wall-mounted recuperator



mobile



air cooler



combo



pro



ducted



wall-mounted



ceiling & floor



compact cassette



standard cassette



ducted



NOXA AIR CONDITIONER IT IS ALSO:

1W



1W Standby

In the standby mode, by disconnecting power from unused electronic components, the energy consumption is limited to 1W. Compared to conventional devices that consume 5W in the standby mode, you can get up to 80% savings.



Smart Hot start function

Air-conditioner starting and fan speed in the heating mode depends on indoor unit heat exchanger temperature. This can prevent cold air blowing out, which avoids the discomfort to the user.



5 Outdoor Unit Fan Speeds

Applied inverter motor in outdoor unit fan allows to increase the number of available speeds from two to five - which strongly impacts reduction of noise and energy consumption.



Low Ambient Cooling

The built-in additional low ambient kit and the specially designed control board, enable cooling operation at external temperatures as low as -25 °C.



12 Indoor Unit Fan Speeds

12 regulation steps of indoor unit fan speed to provide users with the highest comfort.

noxaxa



NOXA
Happy

~
DISPLAY

informs about
the set temperature

26

~
**REMOTE
CONTROL**

easy way of controlling air



~
**COMPACT
DIMENSIONS**

width: only 80 cm



~
LOUVER

adjust the airflow direction

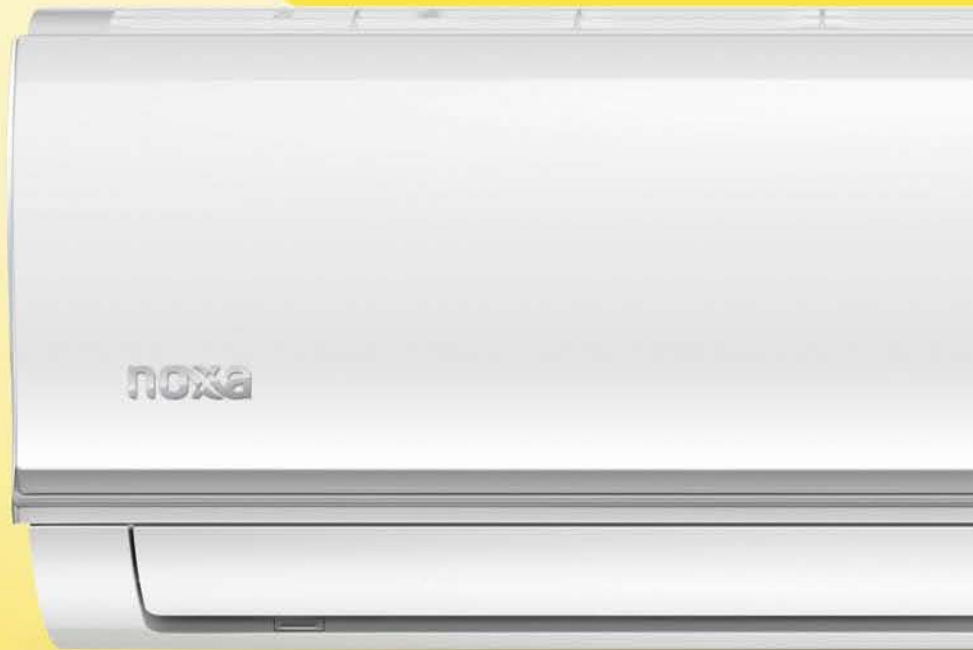


cooling
capacity

NOXA: 2.6-7.0 kW

It means that
the NOXA can cool
room up to

80m²



~ **JUST RIGHT AIR**

ALL YOU NEED FROM AIR CON



~
QUIET OPERATION

it will not disturb your home peace

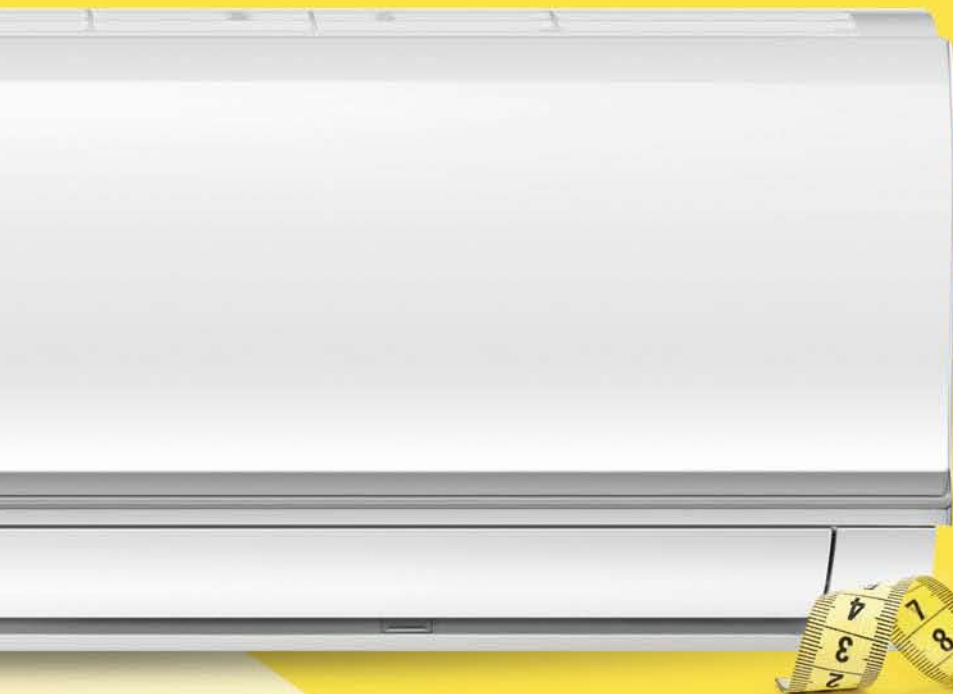


~
SIMPLE INSTALLATION

unit ready to set up

~
SNOW-WHITE PANEL

elegant and easy to clean



heating capacity

NOXA: 2.9-7.3 kW

It means that NOXA works out also during winter



CONDITIONER

CONDITIONING IN COMPETITIVE PRICE

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# COMFORT AND LIFE CONVENIENCE

In one order you will receive:

- ✓ Indoor unit
- ✓ Outdoor unit
- ✓ Remote controller
- ✓ Documentation

**COOLING AND**  
365 days

1

**SIMPLE INSTALLATION  
AND EASY SERVICE**  
comfort and safety

7

**INDIVIDUAL CONTROL**  
you are in charge

6

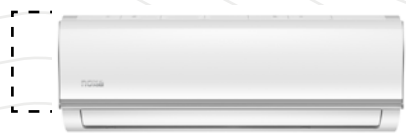
**HEALTHY AIR AND  
COMFORT IN A ROOM**  
for you, for everyone

5

no

ALL IN  
TECHNOLOGY

**HEATING**  
a year



| CAPACITY | DIMENSIONS<br>(width x depth x height) |
|----------|----------------------------------------|
| 2,6 kW   | 720 / 194 / 285                        |
| 3.5 kW   | 810 / 194 / 285                        |
| 5.3 kW   | 967 / 213 / 302                        |
| 7.0 kW   | 1047 / 220 / 327                       |



|        |                 |
|--------|-----------------|
| 2,6 kW | 700 / 270 / 550 |
| 3.5 kW | 700 / 270 / 550 |
| 5.3 kW | 800 / 333 / 554 |
| 7.3 kW | 845 / 363 / 702 |



**IN ONE**  
**TECHNOLOGY**

**2**

**START & FUN**  
turn on and enjoy life

**3**

**ALL FUNCTIONS**  
**YOU NEED**  
just right air conditioner

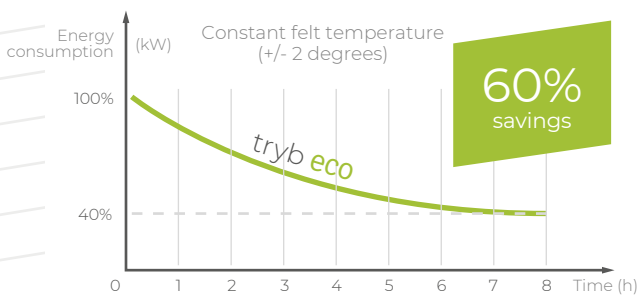
**4**

**QUIET OPERATION**  
**AND UNIQUE DESIGN**  
you can afford it!

# ~HOW DOES IT WORK?

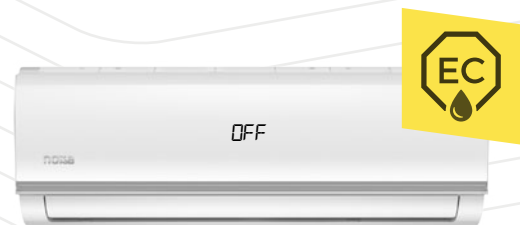
## ECONOMY OPERATION

By activating the economy operation mode the air conditioner operates in power-saving mode for 8 hours. The set temperature and fan speed is adjusted in such a way, that energy consumption is reduced without reducing the feeling of comfort. Specially programmed operation algorithm enables achieving up to 60 % savings compared with the air-conditioner without this feature.



## REFRIGERANT LEAKAGE DETECTION

If the unit detects refrigerant leakage, a message EC will appear on the indoor unit display and the air-conditioner stops operation. This function additionally protects the compressor against damage.



## EMERGENCY OPERATION

In case of temperature sensor failure, a typical air-conditioner turns off. NOXA units, thanks to the emergency operation mode, displays an error code without stopping the operation, allowing to continue using the unit until service arrival, in cases when the air-conditioning is actually necessary.



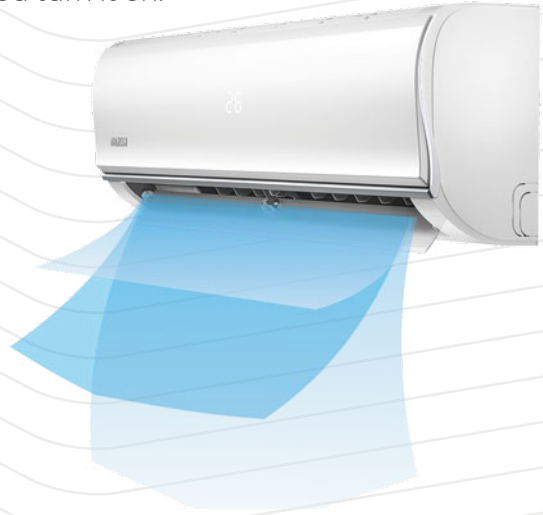
## TURBO FUNCTION

By activation of this function the fan is started automatically with maximum speed to cool down or heat up the room as soon as possible.



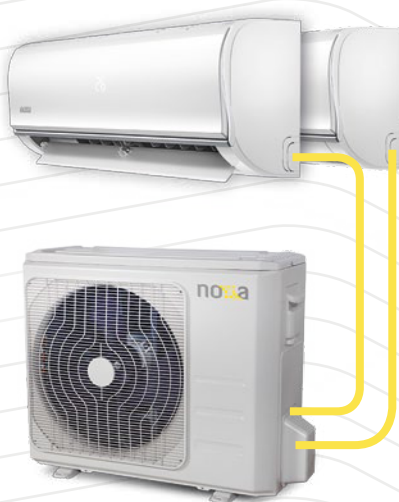
## LOUVER POSITION MEMORY

The air-conditioner stores the recent setting of the air louvers and restores them every time you turn it on.



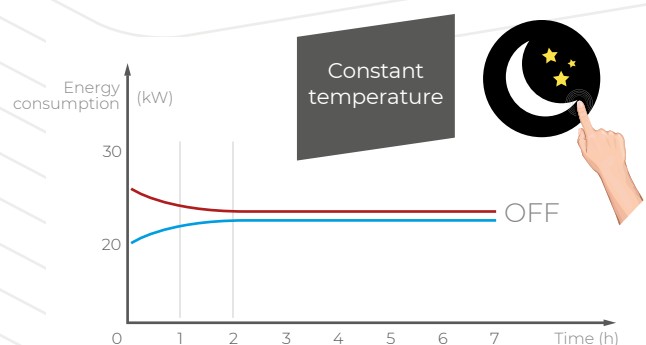
## MONO & MULTI INDOOR UNITS

Due to their universal structure, indoor units can be applied either in single or multi split type systems. This simplifies air conditioning systems configuration in buildings, where both solutions are used and at the same time there is a need to apply all indoor units from the same series.



## SLEEP FUNCTION

By activation of this function the air conditioner, during the first two hours of operation, automatically increases (or decreases in heating mode) the set temperature by 1°C every hour, while the fan is set to low speed. After further 5 hours of continuous operation - the air-conditioner turns off. Unnoticed by the user - slow temperature change and automatic unit shut down, guarantee keeping comfort and significant energy savings.



# NOXA HAPPY

## HAPPY

### SERIES



| Set                                                |                                     |         | SHP-25B-B1           | SHP-35B-B1           | SHP-50B-B1     | SHP-70B-B1     |                |
|----------------------------------------------------|-------------------------------------|---------|----------------------|----------------------|----------------|----------------|----------------|
| Indoor unit                                        |                                     |         | NXRHP-25BWM-1B       | NXRHP-35BWM-1B       | NXRHP-50BWM-1B | NXRHP-70BWM-1B |                |
| Outdoor unit                                       |                                     |         | NXORHP-25B-11B       | NXORHP-35B-11B       | NXORHP-50B-11B | NXORHP-70B-11B |                |
| Power supply (V/Ph/Hz)                             |                                     |         | 220-240/1/50         |                      |                |                |                |
| Version                                            |                                     |         | Reversible heat pump |                      |                |                |                |
| Cooling                                            | Capacity                            | rated   | kW                   | 2,6                  | 3,5            | 5,3            | 7,0            |
|                                                    |                                     | min-max | kW                   | 1.0~3.2              | 1.1~4.1        | 1.8~6.1        | 2.1~7.9        |
|                                                    | Rated power input                   |         | kW                   | 0.71                 | 1.24           | 1.92           | 2.35           |
|                                                    | EER                                 |         | kW/ kW               | 3.70                 | 2.82           | 2.76           | 2.98           |
|                                                    | Annual energy consumption           |         | kWh/year             | 153                  | 204            | 254            | 412            |
|                                                    | SEER                                |         |                      | 6.2                  | 6.1            | 7.1            | 6.1            |
| ErP Energy Efficiency Class                        |                                     |         | A++                  | A++                  | A++            | A++            |                |
| Heating                                            | Capacity                            | rated   | kW                   | 2,9                  | 3,2            | 5,6            | 7,3            |
|                                                    |                                     | min-max | kW                   | 0.8~3.4              | 1.1~4.2        | 1.4~6.7        | 1.6~8.8        |
|                                                    | Rated power input                   |         | kW                   | 0.74                 | 0.96           | 1.55           | 2.04           |
|                                                    | COP                                 |         | kW/kW                | 3.92                 | 3.33           | 3.61           | 3.58           |
|                                                    | Annual energy consumption           |         | kWh/year             | 762                  | 841            | 1425           | 1700           |
|                                                    | SCOP                                |         |                      | 4.0                  | 4.0            | 4.0            | 4.0            |
| ErP Energy Efficiency Class                        |                                     |         | A+                   | A+                   | A+             | A+             |                |
| Max. current input                                 |                                     |         | A                    | 10.0                 | 10.0           | 10.0           | 16.0           |
| Indoor unit                                        | Dimensions (width x depth x lenght) |         | mm                   | 805x194x285          | 805x194x285    | 957x213x302    | 1040x220x327   |
|                                                    | Transport dimensions                |         | mm                   | 870x270x360          | 870x270x360    | 1035x295x380   | 1120x405x310   |
|                                                    | Weight (net/gross)                  |         | kg                   | 7.8/9.6              | 7.8/9.6        | 10.0/13.0      | 12.3/15.8      |
|                                                    | Airflow (Low/Medium/High)           |         | m³/min               | 5.7/7.7/8.7          | 6.0/8.3/10.0   | 9.0/11.3/14.0  | 11.0/13.6/16.3 |
|                                                    | Sound pressure level                |         | dB(A)                | 28/31/38             | 27/34/39       | 28/34/44       | 30/37/46       |
|                                                    | Sound power level                   |         | dB(A)                | 53                   | 53             | 55             | 59             |
| Outdoor unit                                       | Dimensions (width x depth x lenght) |         | mm                   | 700x270x550          | 700x270x550    | 800x333x554    | 845x363x702    |
|                                                    | Transport dimensions                |         | mm                   | 815x325x615          | 815x325x615    | 920x390x615    | 965x395x765    |
|                                                    | Weight (net/gross)                  |         | kg                   | 22.8/25.1            | 22.8/25.1      | 34.0/36.7      | 51.5/54.5      |
|                                                    | Airflow (Low/Medium/High)           |         | m³/min               | 28.3                 | 28.3           | 33.3           | 50.0           |
|                                                    | Sound pressure level                |         | dB(A)                | 55                   | 55             | 55             | 59             |
|                                                    | Sound power level                   |         | dB(A)                | 61                   | 65             | 61             | 67             |
| Refrigerant                                        | Type                                |         |                      | R32                  | R32            | R32            | R32            |
|                                                    | Amount                              |         | kg                   | 0.50                 | 0.50           | 1.00           | 1.60           |
| Refrigerant piping                                 | Liquid / Gas                        |         | mm                   | Ø6.35 / Ø9,52        | Ø6.35 / Ø9,52  | Ø6.35 / Ø12,7  | Ø9,52 / Ø15,9  |
|                                                    | Max. lenght                         |         | m                    | 25                   | 25             | 30             | 50             |
|                                                    | Max. hight difference               |         | m                    | 10                   | 10             | 20             | 25             |
| Recommended electrical wiring and protections      | Power supply unit/cross-section     |         | mm²                  | outdoor unit / 3x1.5 |                |                |                |
|                                                    | Transmission                        |         | mm²                  | 5x1.5                | 5x1.5          | 5x1.5          | 5x1.5          |
|                                                    | Protection                          |         | A                    | 10                   | 10             | 16             | 20             |
| Recommended operating temperature ranges (outdoor) |                                     | Cooling | °C                   | -15 ~ 50             |                |                |                |
|                                                    |                                     | Heating | °C                   | -25 ~ 30             |                |                |                |

Capacity is based on the following conditions:

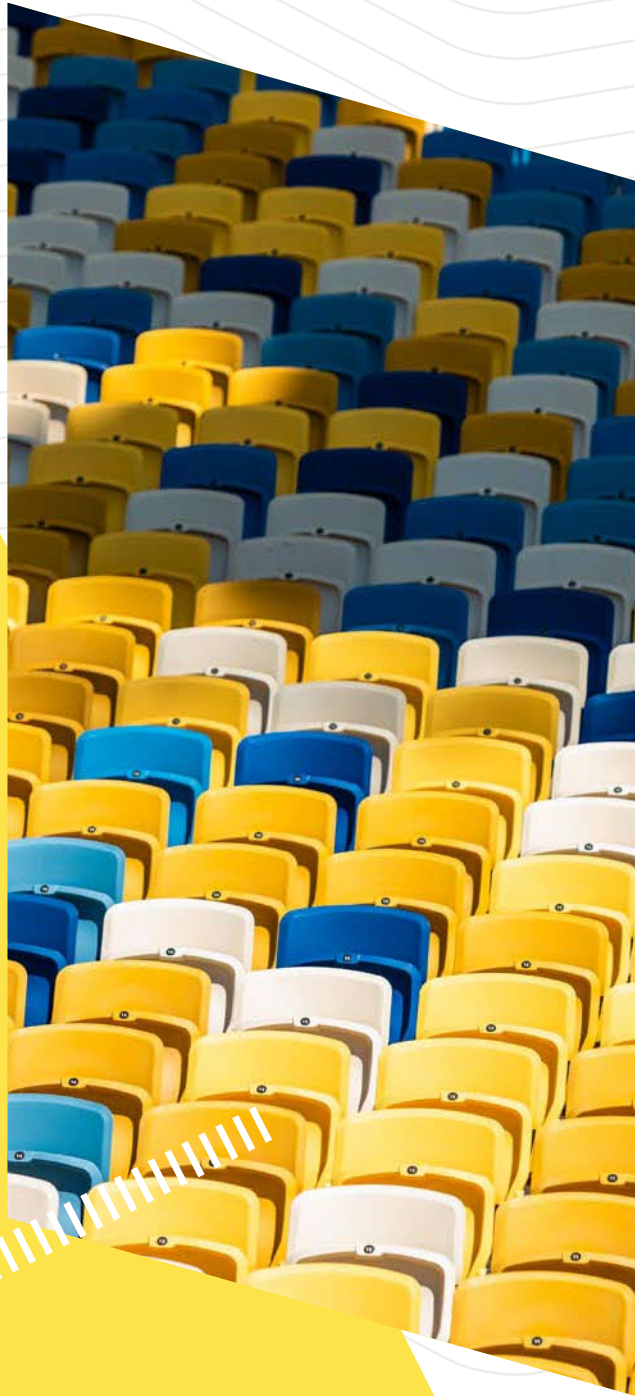
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB

Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB

Installation length: length of connected pipes is 7,5 m; the height difference is 0.

The unit contains fluorinated greenhouse gases R32 GWP=675.





NOXA  
Multi

NOXA MULTI

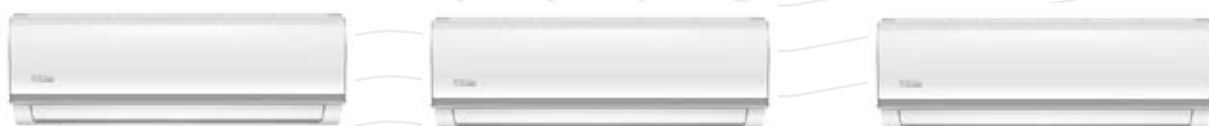
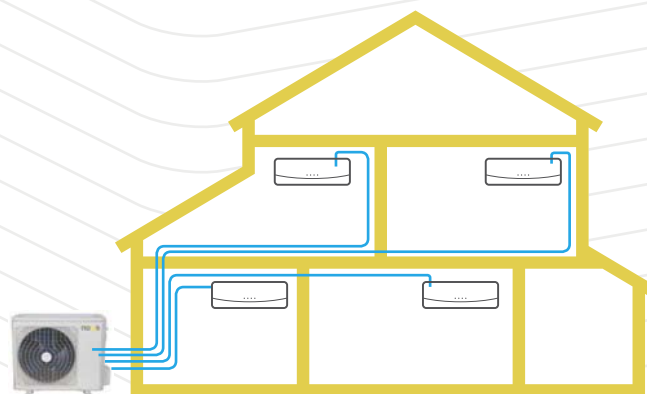
# FREE MATCH

Happy series



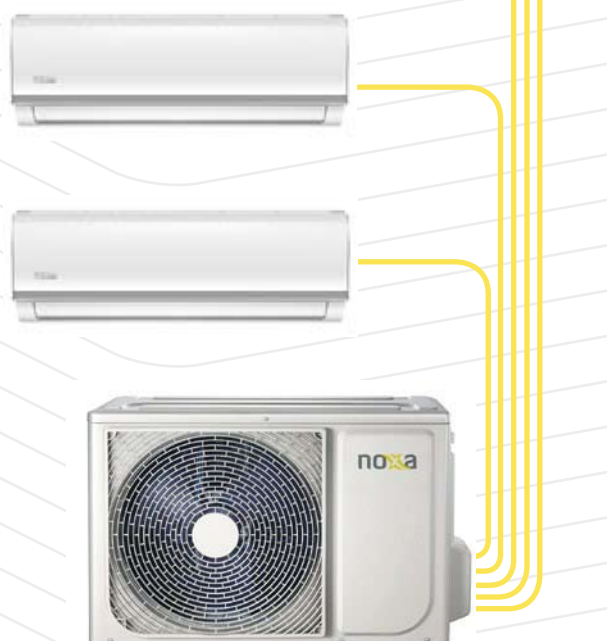
## FLEXIBLE INSTALLATION

One outdoor unit can be connected with up to 5 indoor units. Each indoor unit can be individually controlled. Indoor units do not need to be installed at the same time, what enables system expansion, depending on the user's needs.



## DEDICATED INDOOR UNITS

It is possible to connect HAPPY series (capacity: 2,6-7,0 kW) indoor units to one system. Total installation length may reach up to 75 m. This makes the design more flexible and gives many possibilities of air-conditioning system configuration in rooms with variable interior arrangements.



| Outdoor unit                                       |                                               |                                 | NXOM2-50A-11A        | NXOM3-80A-11A    | NXOM4-100A-11A   | NXOM5-125A-11A               |                              |
|----------------------------------------------------|-----------------------------------------------|---------------------------------|----------------------|------------------|------------------|------------------------------|------------------------------|
| Power supply (V/Ph/Hz)                             |                                               |                                 | 220-240/1/50         |                  |                  |                              |                              |
| Version                                            |                                               |                                 | Reversible heat pump |                  |                  |                              |                              |
| Cooling                                            | Rated capacity                                | kW                              | 5.3                  | 7.9              | 10.6             | 12.3                         |                              |
|                                                    | Rated power input                             | kW                              | 1.75                 | 2.46             | 3.52             | 3.80                         |                              |
|                                                    | EER                                           | kW/ kW                          | 3.20                 | 3.20             | 2.91             | 3.22                         |                              |
|                                                    | SEER                                          |                                 | 6.8                  | 6.5              | 6.5              | 6.6                          |                              |
|                                                    | ErP Energy Efficiency Class                   |                                 | A++                  | A++              | A++              | A++                          |                              |
| Heating                                            | Rated capacity                                | kW                              | 5.6                  | 8.2              | 11.1             | 12.3                         |                              |
|                                                    | Rated power input                             | kW                              | 1.45                 | 2.27             | 3.17             | 3.32                         |                              |
|                                                    | COP                                           | kW/kW                           | 3.84                 | 3.61             | 3.51             | 3.71                         |                              |
|                                                    | SCOP                                          |                                 | 4.0                  | 4.0              | 4.0              | 4.0                          |                              |
|                                                    | ErP Energy Efficiency Class                   |                                 | A+                   | A+               | A+               | A+                           |                              |
| Max. power input                                   |                                               | W                               | 2300                 | 3100             | 4600             | 4700                         |                              |
| Airflow                                            |                                               | m <sup>3</sup> /min             | 36.7                 | 45.0             | 66.7             | 64.2                         |                              |
| Sound pressure level                               |                                               | dB(A)                           | 56                   | 59               | 63               | 62                           |                              |
| Sound power level                                  |                                               | dB(A)                           | 63                   | 65               | 68               | 71                           |                              |
| Outdoor unit                                       | Dimensions (width x depth x length)           |                                 | mm                   | 800x333x554      | 845x363x702      | 946x410x810                  | 946x410x810                  |
|                                                    | Transport dimensions (width x depth x length) |                                 | mm                   | 920x390x615      | 965x395x765      | 1090x500x875                 | 1090x500x875                 |
|                                                    | Weight (net/gross)                            |                                 | kg                   | 36.0             | 53.0             | 68.8                         | 73.3                         |
| Refrigerant                                        | Type                                          |                                 |                      | R32              | R32              | R32                          | R.32                         |
|                                                    | Amount                                        |                                 | kg                   | 1.30             | 1.57             | 2.10                         | 2.40                         |
| Refrigerant piping                                 | Liquid / Gas                                  |                                 | mm                   | 2x Ø6.35 / Ø9.52 | 2x Ø6.35 / Ø9.52 | 4x Ø6.35/3x Ø9.52 + 1x Ø12.7 | 5x Ø6.35/4x Ø9.52 + 1x Ø12.7 |
|                                                    | Maximum total length                          |                                 | m                    | 40               | 60               | 80                           | 80                           |
|                                                    | Maximum length to each unit                   |                                 | m                    | 25               | 30               | 35                           | 35                           |
|                                                    | Maximum height difference (outdoor-indoor)    | Outdoor unit above indoor units | m                    | 15               | 15               | 15                           | 15                           |
|                                                    |                                               | Outdoor unit below indoor units | m                    | 10               | 10               | 10                           | 10                           |
|                                                    | Max. height difference between indoor units   |                                 | m                    | 10               | 10               | 10                           | 10                           |
| Recommended electrical wiring and protections      | Power supply                                  |                                 | mm <sup>2</sup>      | 3x2.5            | 3x2.5            | 3x4.0                        | 3x4.0                        |
|                                                    | Transmission                                  |                                 | mm <sup>2</sup>      | 4x1.5            | 4x1.5            | 4x1.5                        | 4x1.5                        |
|                                                    | Protection                                    |                                 | A                    | 16               | 20               | 25                           | 30                           |
| Recommended operating temperature ranges (outdoor) | Cooling                                       | °C                              | -15 ~ 50             |                  |                  |                              |                              |
|                                                    | Heating                                       | °C                              | -15 ~ 24             |                  |                  |                              |                              |

## DEDICATED INDOOR UNITS - HAPPY SERIES

| Indoor unit                            |                                               |                     | NXRHP-25BWM-1B | NXRHP-35BWM-1B | NXRHP-50BWM-1B | NXRHP-70BWM-1B |              |
|----------------------------------------|-----------------------------------------------|---------------------|----------------|----------------|----------------|----------------|--------------|
| Power supply (V/Ph/Hz)                 |                                               |                     | 220-240/1/50   |                |                |                |              |
| Cooling                                | Rated capacity                                | kW                  | 2.6            | 3.5            | 5.3            | 7.0            |              |
|                                        | Rated power input                             | kW                  | 0.048          | 0.048          | 0.044          | 0.062          |              |
| Heating                                | Rated capacity                                | kW                  | 2.9            | 3.5            | 5.6            | 7.3            |              |
|                                        | Rated power input                             | kW                  | 0.048          | 0.048          | 0.044          | 0.062          |              |
| Airflow (Low/Medium/High)              |                                               | m <sup>3</sup> /min | 5.7/7.7/8.7    | 6.0/8.3/10.0   | 9.0/11.3/14.0  | 11.0/13.6/16.3 |              |
| Sound pressure level (Low/Medium/High) |                                               | dB(A)               | 28/31/38       | 27/34/39       | 28/34/44       | 30/37/46       |              |
| Sound power level                      |                                               | dB(A)               | 53             | 53             | 55             | 59             |              |
| Indoor unit                            | Dimensions (width x depth x height)           |                     | mm             | 805x194x285    | 805x194x285    | 957x213x302    | 1040x220x310 |
|                                        | Transport dimensions (width x depth x height) |                     | mm             | 870x270x360    | 870x270x360    | 1035x295x380   | 1120x405x327 |
|                                        | Weight (net/gross)                            |                     | kg             | 7.8/9.6        | 7.8/9.6        | 10.0/13.0      | 12.3/15.8    |
| Refrigerant piping                     | Liquid                                        | mm                  | Ø6.35          | Ø6.35          | Ø6.35          | Ø9.52          |              |
|                                        | Gas                                           | mm                  | Ø9.52          | Ø9.52          | Ø12.7          | Ø15.9          |              |

Capacity is based on the following conditions:

Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB

Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB

Installation length: length of connected pipes is 7,5 m; the height difference is 0.

The unit contains fluorinated greenhouse gases R32 GWP=675.

# INDOOR UNIT CONNECTION COMBINATION

## COOLING CAPACITY 5.3 KW

| NXOM2-50A-1IA | 1 unit |  | 2 units |       |
|---------------|--------|--|---------|-------|
|               | 25     |  | 25+25   | 35+35 |
|               | 35     |  | 25+35   |       |
|               | 50     |  | 25+50   |       |

## COOLING CAPACITY 7.9 KW

| NXOM3-80A-1IA | 1 unit | 2 units |       | 3 units  |
|---------------|--------|---------|-------|----------|
|               | 25     | 25+25   | 35+35 | 25+25+25 |
|               | 35     | 25+35   | 35+50 | 25+25+35 |
|               | 50     | 25+50   |       | 25+35+35 |

## COOLING CAPACITY 10.6 KW

| NXOM4-100A-1IA | 1 unit  | 2 units     |       | 3 units     |          |          |
|----------------|---------|-------------|-------|-------------|----------|----------|
|                | 25      | 25+25       | 35+35 | 25+25+25    | 25+35+35 | 35+35+35 |
|                | 35      | 25+35       | 35+50 | 25+25+35    | 25+35+50 | 35+35+50 |
|                | 50      | 25+50       | 50+50 | 25+25+50    | 25+50+50 | 35+50+50 |
|                | 4 units |             |       |             |          |          |
|                |         | 25+25+25+25 |       | 25+25+35+50 |          |          |
|                |         | 25+25+25+35 |       | 25+35+35+35 |          |          |
|                |         | 25+25+25+50 |       | 25+35+35+50 |          |          |
|                |         | 25+25+35+35 |       | 35+35+35+35 |          |          |

## COOLING CAPACITY 12.3 KW

| NXOM5-125A-1IA | 1 unit         | 2 units        |                | 3 units        |             |                |
|----------------|----------------|----------------|----------------|----------------|-------------|----------------|
|                | 25             | 25+25          | 35+35          | 25+25+25       | 25+35+35    | 35+35+35       |
|                | 35             | 25+35          | 35+50          | 25+25+35       | 25+35+50    | 35+35+50       |
|                | 50             | 25+50          | 50+50          | 25+25+50       | 25+50+50    | 35+50+50       |
|                | 4 units        |                |                |                |             |                |
|                |                | 25+25+25+25    | 25+25+25+70    | 25+35+35+70    | 25+35+35+50 | 35+35+35+35    |
|                |                | 25+25+25+35    | 25+25+35+35    | 25+25+50+50    | 25+35+35+70 | 35+35+35+50    |
|                |                | 25+25+25+50    | 25+35+35+50    | 25+35+35+35    | 25+35+50+50 |                |
|                | 5 units        |                |                |                |             |                |
|                |                | 25+25+25+25+25 |                | 25+25+25+35+25 |             | 25+35+35+35+35 |
|                | 25+25+25+25+35 |                | 25+25+25+35+50 |                |             |                |
|                | 25+25+25+25+50 |                | 25+25+35+35+35 |                |             |                |



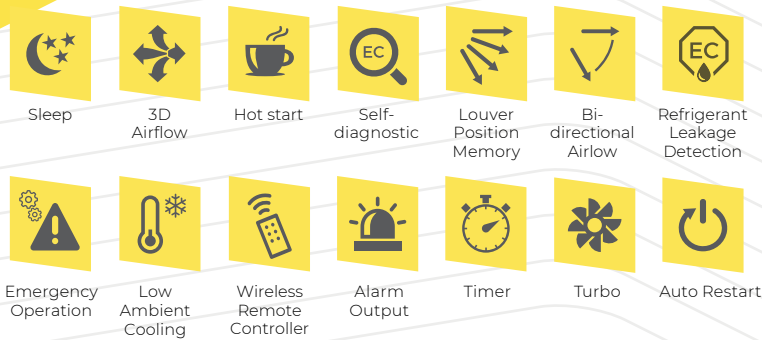
# NOXA Professional

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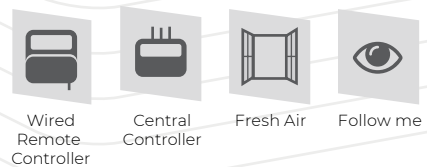
## CEILING & FLOOR



### STANDARD FEATURES

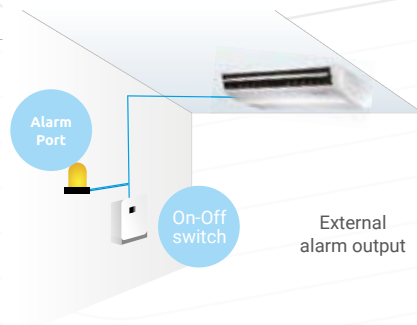


### OPTIONAL FUNCTIONS



## ON-OFF PORTS AND ALARM

On the indoor unit control board there are available optional ports for remote turning on of the air-conditioner as well as alarm signalling. This solution is mainly intended for units operating in service rooms.



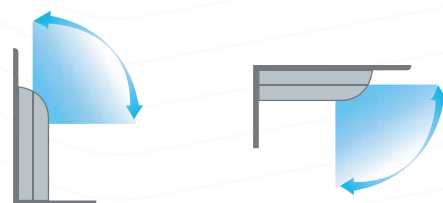
## FRESH AIR

Improvement of indoor air quality owing to the possibility of bringing in the fresh outdoor air.



## TWO WAYS OF INSTALLATION

The unit structural design allows it to be installed in two positions: horizontally under the ceiling or vertically on the floor. This significantly increases the range of unit possible applications.



Suitable for vertical installation on a wall or horizontal under ceiling

## TECHNICAL DATA

| Set                                                |                                        |         |          | SCF-50B-B1           | SCF-70B-B1     | SCF-100B-B1    | SCF-100B-B3    | SCF-140B-B3    | SCF-160B-B3    |
|----------------------------------------------------|----------------------------------------|---------|----------|----------------------|----------------|----------------|----------------|----------------|----------------|
| Indoor unit                                        |                                        |         |          | NXRI-50XCF-1B        | NXRI-70XCF-1B  | NXRI-100XCF-1B | NXRI-100XCF-1B | NXRI-140XCF-1B | NXRI-160XCF-1B |
| Outdoor unit                                       |                                        |         |          | NXOL-50B-11B         | NXOL-70B-11B   | NXOL-100B-11B  | NXOL-100B-31B  | NXOL-140B-31B  | NXOL-160B-31B  |
| Indoor unit power supply (V/Ph/Hz)                 |                                        |         |          | 220-240/1/50         | 220-240/1/50   | 220-240/1/50   | 220-240/1/50   | 220-240/1/50   | 220-240/1/50   |
| Outdoor unit power supply (V/Ph/Hz)                |                                        |         |          | 220-240/1/50         | 220-240/1/50   | 220-240/1/50   | 380-415/3/50   | 380-415/3/50   | 380-415/3/50   |
| Version                                            |                                        |         |          | Reversible heat pump |                |                |                |                |                |
| Cooling                                            | Capacity                               | rated   | kW       | 5.3                  | 6.9            | 10.5           | 10.5           | 14.2           | 15.9           |
|                                                    |                                        | min-max | kW       | 1.3~6.2              | 2.2~8.2        | 2.6~12.0       | 2.6~12.0       | 5.0~15.1       | 5.3~17.0       |
|                                                    | Rated power input                      |         | kW       | 1.70                 | 2.22           | 4.03           | 4.03           | 5.50           | 6.06           |
|                                                    | EER                                    |         | kW/ kW   | 3.11                 | 3.12           | 2.61           | 2.61           | 2.58           | 2.62           |
|                                                    | Annual energy consumption              |         | kWh/year | 280                  | 393            | 556            | 556            | 801            | 916            |
|                                                    | SEER                                   |         |          | 6.1                  | 6.1            | 6.1            | 6.1            | 6.1            | 6.1            |
| ErP Energy Efficiency Class                        |                                        |         |          | A++                  | A++            | A++            | A++            | A++            | A++            |
| Heating                                            | Capacity                               | rated   | kW       | 5.6                  | 7.6            | 11.1           | 11.1           | 16.1           | 18.2           |
|                                                    |                                        | min-max | kW       | 1.8~7.0              | 2.4~8.7        | 2.9~13.2       | 2.9~13.2       | 3.8~18.1       | 4.4~19.6       |
|                                                    | Annual energy consumption              |         | kW       | 1.50                 | 2.12           | 3.00           | 3.00           | 5.05           | 6.04           |
|                                                    | COP                                    |         | kW/kW    | 3.73                 | 3.59           | 3.71           | 3.71           | 2.93           | 3.02           |
|                                                    | Roczne zużycie energii                 |         | kWh/year | 1641                 | 1858           | 3052           | 3052           | 4005           | 4138           |
|                                                    | SCOP                                   |         |          | 4.0                  | 4.0            | 4.0            | 4.0            | 4.0            | 4.0            |
| ErP Energy Efficiency Class                        |                                        |         |          | A+                   | A+             | A+             | A+             | A+             | A+             |
| Max. current input                                 |                                        |         | A        | 10.0                 | 13.5           | 10.0           | 10.0           | 11.2           | 14.0           |
| Indoor unit                                        | Dimensions (width x depth x length)    |         | mm       | 1068x675x235         | 1068x675x235   | 1650x675x235   | 1650x675x235   | 1650x675x235   | 1650x675x235   |
|                                                    | Transport dimensions                   |         | mm       | 1145x755x313         | 1145x755x313   | 1725x755x313   | 1725x755x313   | 1725x755x313   | 1725x755x313   |
|                                                    | Weight                                 |         | kg       | 26.6                 | 26.8           | 39.0           | 39.0           | 41.2           | 41.4           |
|                                                    | Airflow (Low/Medium/High)              |         | m³/min   | 11.3/13.1/15.0       | 14.2/17.8/20.1 | 23.9/30.7/36.0 | 23.9/30.7/36.0 | 23.6/32.2/38.8 | 23.8/30.6/42.6 |
|                                                    | Sound pressure level (Low/Medium/High) |         | dB(A)    | 37/40/45             | 41/46/50       | 42/47/5        | 42/47/5        | 46/50/54       | 42/47/54       |
|                                                    | Sound power level                      |         | dB(A)    | 57                   | 62             | 61             | 61             | 67             | 69             |
| Outdoor unit                                       | Dimensions (width x depth x length)    |         | mm       | 800x333x554          | 845x363x702    | 946x410x810    | 946x410x810    | 952x415x1333   | 952x415x1333   |
|                                                    | Transport dimensions                   |         | mm       | 920x390x615          | 965x395x765    | 1090x500x875   | 1090x500x875   | 1095x495x1480  | 1095x495x1480  |
|                                                    | Weight (net/gross)                     |         | kg       | 35.6/38.5            | 66.8/72.6      | 81.5/87.0      | 81.5/87.0      | 106.7/119.9    | 111.3/124.3    |
|                                                    | Airflow                                |         | m³/min   | 35.0                 | 45.0           | 66.7           | 66.7           | 125.0          | 125.0          |
|                                                    | Sound pressure level                   |         | dB(A)    | 57                   | 62             | 64             | 64             | 66             | 66             |
|                                                    | Sound power level                      |         | dB(A)    | 65                   | 66             | 68             | 68             | 72             | 77             |
| Refrigerant                                        | Type                                   |         |          | R32                  | R32            | R32            | R32            | R32            | R32            |
|                                                    | Amount                                 |         | kg       | 1.35                 | 1.50           | 2.40           | 2.40           | 2.80           | 2.95           |
| Refrigerant piping                                 | Liquid / Gas                           |         | mm       | Ø6.35 / Ø12.7        | Ø9.52 / Ø15.9  | Ø9.52 / Ø15.9  | Ø9.52 / Ø15.9  | Ø9.52 / Ø15.9  | Ø9.52 / Ø15.9  |
|                                                    | Max. length                            |         | m        | 30                   | 50             | 65             | 65             | 65             | 65             |
|                                                    | Max. height difference                 |         | m        | 20                   | 25             | 30             | 30             | 30             | 30             |
| Condensate drain pipe                              |                                        |         | mm       | Ø32                  | Ø32            | Ø32            | Ø32            | Ø32            | Ø32            |
| Recommended electrical wiring and protections      | Indoor unit power supply cable         |         | mm²      | 3x1.5                | 3x1.5          | 3x1.5          | 3x1.5          | 3x1.5          | 3x1.5          |
|                                                    | Outdoor unit power supply cable        |         | mm²      | 3x2.5                | 3x2.5          | 3x4.0          | 5x2.5          | 5x2.5          | 5x2.5          |
|                                                    | Transmission                           |         |          | 2x1.0 (shielded)     |                |                |                |                |                |
|                                                    | Protection                             |         | A        | 16                   | 20             | 16             | 16             | 16             | 20             |
| Recommended operating temperature ranges (outdoor) | Cooling                                | °C      | -15 ~ 50 |                      |                |                |                |                |                |
|                                                    | Heating                                | °C      | -15 ~ 24 |                      |                |                |                |                |                |

Capacity is based on the following conditions:

Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB

Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB

Installation length: length of connected pipes is 7,5 m; the height difference is 0.

The unit contains fluorinated greenhouse gases R32 GWP=675.

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## STANDARD CASSETTE



### STANDARD FEATURES

- Hot start
- Self-diagnostic
- Auto Restart
- Timer
- Bi-directional Airflow
- Low Ambient Cooling
- Wireless Remote Controller
- 360° Airflow
- Built in Drain pump

### OPTIONAL FUNCTIONS

- Wired Remote Controller
- Central Controller
- Fresh Air
- Follow me

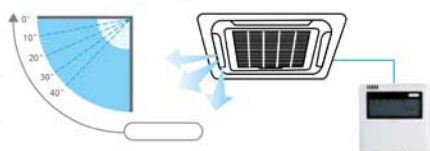
### ALL AROUND AIRFLOW

✓ Air-conditioner panel with additional air nozzles at the corners ensure excellent air distribution across the entire room.



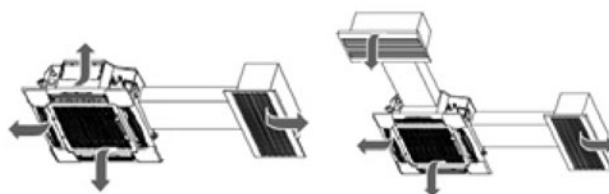
### WIDE AIR OUTLET ANGLE

✓ Louvers driven by two motors enable adjustment of air outlet angle in range of 40°. This enables to adapt the air direction to the individual user needs.



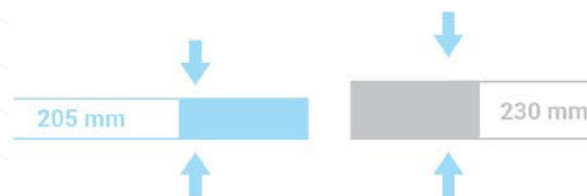
### ADDITIONAL AIR SUPPLY DUCTS

✓ The pre-cut holes in the cover enable connecting the fresh air supplying duct and also allow for installation of ducts supplying additional air inlets with cooled down air from the air-conditioner.



### SUPER SLIM DESIGN

✓ Special indoor unit design with only 205 mm in height (unit 5,3 kW). This enables to install the air-conditioner in very limited spaces of the ceiling cavity.





## TECHNICAL DATA

| Set                                                |                                        |         | SC4-50B-B1           | SC4-70B-B1       | SC4-100B-B1    | SC4-100B-B3    | SC4-140B-B3    | SC4-160B-B3    |                |
|----------------------------------------------------|----------------------------------------|---------|----------------------|------------------|----------------|----------------|----------------|----------------|----------------|
| Indoor unit                                        |                                        |         | NXRI-50XC4-1B        | NXRI-70XC4-1B    | NXRI-100XC4-1B | NXRI-100XC4-1B | NXRI-140XC4-1B | NXRI-160XC4-1B |                |
| Outdoor unit                                       |                                        |         | NXOL-50B-11B         | NXOL-70B-11B     | NXOL-100B-11B  | NXOL-100B-31B  | NXOL-140B-31B  | NXOL-160B-31B  |                |
| Panel                                              |                                        |         | P-NXQ4-S1            |                  |                |                |                |                |                |
| Indoor unit power supply (V/Ph/Hz)                 |                                        |         | 220-240/1/50         | 220-240/1/50     | 220-240/1/50   | 220-240/1/50   | 220-240/1/50   | 220-240/1/50   |                |
| Outdoor unit power supply (V/Ph/Hz)                |                                        |         | 220-240/1/50         | 220-240/1/50     | 220-240/1/50   | 380-415/3/50   | 380-415/3/50   | 380-415/3/50   |                |
| Version                                            |                                        |         | Reversible heat pump |                  |                |                |                |                |                |
| Cooling                                            | Capacity                               | rated   | kW                   | 5.3              | 7.0            | 10.5           | 10.5           | 13.6           | 15.7           |
|                                                    |                                        | min-max | kW                   | 1.3~6.2          | 2.2~8.2        | 2.6~12.0       | 2.6~12.0       | 4.8~14.6       | 5.3~16.7       |
|                                                    | Rated power input                      |         | kW                   | 1.64             | 2.19           | 3.90           | 3.90           | 5.42           | 5.99           |
|                                                    | EER                                    |         | kW/ kW               | 3.23             | 3.21           | 2.69           | 2.69           | 2.51           | 2.62           |
|                                                    | Annual energy consumption              |         | kWh/year             | 266              | 4.01           | 593            | 593            | 805            | 893            |
|                                                    | SEER                                   |         |                      | 6.1              | 6.1            | 6.1            | 6.1            | 6.1            | 6.1            |
|                                                    | ErP Energy Efficiency Class            |         |                      | A++              | A++            | A++            | A++            | A++            | A++            |
| Heating                                            | Capacity                               | rated   | kW                   | 5.6              | 7.4            | 11.1           | 11.1           | 15.9           | 18.2           |
|                                                    |                                        | min-max | kW                   | 1.8~7.0          | 2.4~8.7        | 2.9~13.2       | 2.9~13.2       | 3.9~16.8       | 4.4~19.3       |
|                                                    | Rated power input                      |         | kW                   | 1.50             | 1.98           | 2.97           | 2.97           | 5.34           | 6.03           |
|                                                    | COP                                    |         | kW/kW                | 3.71             | 3.72           | 3.74           | 3.74           | 2.98           | 3.02           |
|                                                    | Annual energy consumption              |         | kWh/year             | 1654             | 1890           | 2824           | 2824           | 3903           | 4123           |
|                                                    | SCOP                                   |         |                      | 4.0              | 4.0            | 4.0            | 4.0            | 4.0            | 4.0            |
|                                                    | ErP Energy Efficiency Class            |         |                      | A+               | A+             | A+             | A+             | A+             | A+             |
| Max. current input                                 |                                        |         | A                    | 10.0             | 13.5           | 10.0           | 10.0           | 11.2           | 14.0           |
| Indoor unit                                        | Dimensions (width x depth x height)    |         | mm                   | 840x840x205      | 840x840x205    | 840x840x245    | 840x840x245    | 840x840x287    | 840x840x287    |
|                                                    | Transport dimensions                   |         | mm                   | 900x900x225      | 900x900x225    | 900x900x265    | 900x900x265    | 900x900x292    | 900x900x292    |
|                                                    | Weight (net/gross)                     |         | kg                   | 21.4/25.1        | 23.0/27.0      | 27.5/31.0      | 27.5/31.0      | 29.0/32.7      | 29.7/33.4      |
|                                                    | Airflow (Low/Medium/High)              |         | m <sup>3</sup> /min  | 12.7/14.5/17.3   | 17.2/20.0/23.0 | 24.0/27.0/29.6 | 24.0/27.0/29.6 | 23.0/26.1/28.6 | 25.6/29.0/32.8 |
|                                                    | Sound pressure level (Low/Medium/High) |         | dB(A)                | 37/41/46         | 40/43/47       | 46/49/52       | 46/49/52       | 49/50/52       | 48/50/53       |
|                                                    | Sound power level                      |         | dB(A)                | 57               | 60             | 63             | 63             | 65             | 65             |
| Panel                                              | Dimensions (width x depth x height)    |         | mm                   | 950x950x55       | 950x950x55     | 950x950x55     | 950x950x55     | 950x950x55     | 950x950x55     |
|                                                    | Transport dimensions                   |         | mm                   | 1035x1035x90     | 1035x1035x90   | 1035x1035x90   | 1035x1035x90   | 1035x1035x90   | 1035x1035x90   |
|                                                    | Weight (net/gross)                     |         | kg                   | 5.0/8.0          | 5.0/8.0        | 5.0/8.0        | 5.0/8.0        | 5.0/8.0        | 5.0/8.0        |
| Outdoor unit                                       | Dimensions (width x depth x height)    |         | mm                   | 800x333x554      | 845x363x702    | 946x410x810    | 946x410x810    | 952x415x1333   | 952x415x1333   |
|                                                    | Wymiary transportowe                   |         | mm                   | 920x390x615      | 965x395x765    | 1090x500x875   | 1090x500x875   | 1095x495x1480  | 1095x495x1480  |
|                                                    | Weight (net/gross)                     |         | kg                   | 35.6/38.5        | 66.8/72.6      | 81.5/87.0      | 81.5/87.0      | 106.7/119.9    | 111.3/124.3    |
|                                                    | Airflow                                |         | m <sup>3</sup> /min  | 35.0             | 45.0           | 66.7           | 66.7           | 125.0          | 125.0          |
|                                                    | Sound pressure level                   |         | dB(A)                | 57               | 62             | 64             | 64             | 66             | 66             |
|                                                    | Sound power level                      |         | dB(A)                | 65               | 66             | 68             | 68             | 72             | 77             |
| Refrigerant                                        | Type                                   |         |                      | R32              | R32            | R32            | R32            | R32            | R32            |
|                                                    | Amount                                 |         | kg                   | 1.35             | 1.50           | 2.40           | 2.40           | 2.80           | 2.95           |
| Refrigerant piping                                 | Liquid / Gas                           |         | mm                   | Ø6.35 / Ø12.7    | Ø9.52 / Ø15.9  | Ø9.52 / Ø15.9  | Ø9.52 / Ø15.9  | Ø9.52 / Ø15.9  | Ø9.52 / Ø15.9  |
|                                                    | Max. lenght                            |         | m                    | 30               | 50             | 65             | 65             | 65             | 65             |
|                                                    | Max. height difference                 |         | m                    | 20               | 25             | 30             | 30             | 30             | 30             |
| Condensate drain pipe                              |                                        |         | mm                   | Ø32              | Ø32            | Ø32            | Ø32            | Ø32            | Ø32            |
| Recommended electrical wiring and protections      | Indoor unit power supply cable         |         | mm <sup>2</sup>      | 3x1.5            | 3x1.5          | 3x1.5          | 3x1.5          | 3x1.5          | 3x1.5          |
|                                                    | Outdoor unit power supply cable        |         | mm <sup>2</sup>      | 3x2.5            | 3x2.5          | 3x4.0          | 5x2.5          | 5x2.5          | 5x2.5          |
|                                                    | Transmission                           |         |                      | 2x1.0 (shielded) |                |                |                |                |                |
|                                                    | Protection                             |         | A                    | 16               | 20             | 16             | 16             | 16             | 20             |
| Recommended operating temperature ranges (outdoor) |                                        | Cooling | °C                   | -15 ~ 50         |                |                |                |                |                |
|                                                    |                                        | Heating | °C                   | -15 ~ 24         |                |                |                |                |                |

Capacity is based on the following conditions:

Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB

Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB

Installation length: length of connected pipes is 7,5 m; the height difference is 0.

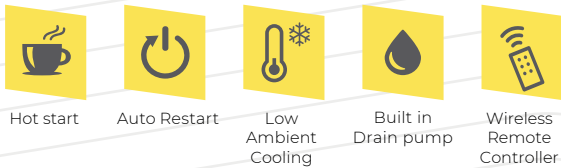
The unit contains fluorinated greenhouse gases R32 GWP=675.

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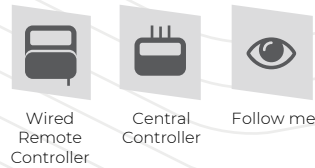
## COMPACT CASSETTE



### STANDARD FEATURES

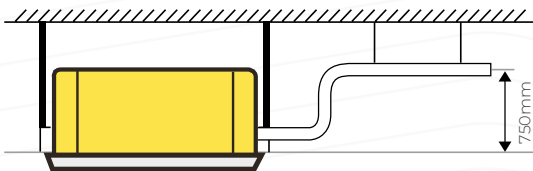


### OPTIONAL FUNCTIONS



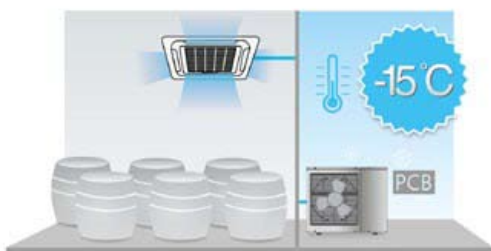
### BUILT-IN DRAIN PUMP

The built-in drain pump with a lift height up to 750 mm, facilitates distribution of the condensate drain installation in the space above the suspended ceiling.



### OPERATION IN LOW AMBIENT TEMPERATURES

The air-conditioners have been designed in such a way as to operate in the cooling mode even when the temperature falls down to  $-15^{\circ}\text{C}$ .



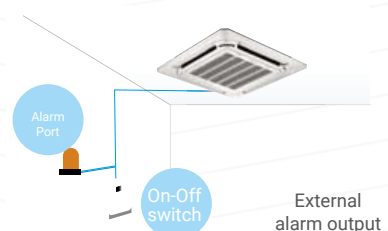
### WIRED REMOTE CONTROLLER

In comparison to the wireless remote controller, the wired one can be permanently fixed to a wall, so it does not get lost along the way.



### ON/OFF AND ALARM PORTS

On the indoor unit control board there are ports for remote switching on of the air-conditioner and signalling of the alarm occurrence. The solution is designed especially for units operating in the technical rooms.



## TECHNICAL DATA

| Set                                                |                                               |         | SC4C-35A-B1          | SC4C-50A-B1       |               |
|----------------------------------------------------|-----------------------------------------------|---------|----------------------|-------------------|---------------|
| Indoor unit                                        |                                               |         | NXRI-35XC4C-1B       | NXRI-50AC4C-1B    |               |
| Outdoor unit                                       |                                               |         | NXOL-35A-11B         | NXOL-50A-11B      |               |
| Panel                                              |                                               |         | P-NXQ4-C1            |                   |               |
| Indoor unit power supply (V/Ph/Hz)                 |                                               |         | 220-240/1/50         | 220-240/1/50      |               |
| Outdoor unit power supply (V/Ph/Hz)                |                                               |         | 220-240/1/50         | 220-240/1/50      |               |
| Version                                            |                                               |         | Reversible heat pump |                   |               |
| Cooling                                            | Capacity                                      | rated   | kW                   | 3.5               | 5.1           |
|                                                    |                                               | min-max | kW                   | 0.8~4.1           | 0.8~6.2       |
|                                                    | Rated power input                             |         | kW                   | 1.07              | 1.66          |
|                                                    | EER                                           |         | kW/kW                | 3.27              | 3.07          |
|                                                    | Annual energy consumption                     |         | kWh/year             | 183               | 278           |
|                                                    | SEER                                          |         |                      | 6.1               | 6.3           |
| ErP Energy Efficiency Class                        |                                               |         | A++                  | A++               |               |
| Heating                                            | Capacity                                      | rated   | kW                   | 4.1               | 5.6           |
|                                                    |                                               | min-max | kW                   | 0.5~4.4           | 0.9~7.0       |
|                                                    | Rated power input                             |         | kW                   | 1.06              | 1.50          |
|                                                    | COP                                           |         | kW/kW                | 3.88              | 3.71          |
|                                                    | Annual energy consumption                     |         | kWh/year             | 1141              | 1626          |
|                                                    | SCOP                                          |         |                      | 4.0               | 4.0           |
| ErP Energy Efficiency Class                        |                                               |         | A+                   | A+                |               |
| Max. current input                                 |                                               |         | A                    | 9.0               | 10.0          |
| Indoor unit                                        | Dimensions (width x depth x height)           |         | mm                   | 570x570x260       | 570x570x260   |
|                                                    | Transport dimensions (width x depth x height) |         | mm                   | 655x655x290       | 655x655x290   |
|                                                    | Weight (net/gross)                            |         | kg                   | 16.2/21.4         | 16.5/19.0     |
|                                                    | Airflow (Low/Medium/High)                     |         | m³/min               | 6.9/8.4/10.3      | 8.2/9.2/11.0  |
|                                                    | Sound pressure level (Low/Medium/High)        |         | dB(A)                | 35/39/43          | 38/42/46      |
|                                                    | Sound power level                             |         | dB(A)                | 57                | 57            |
| Panel                                              | Dimensions (width x depth x height)           |         | mm                   | 647x647x50        | 647x647x50    |
|                                                    | Transport dimensions (width x depth x height) |         | mm                   | 715x715x123       | 715x715x123   |
|                                                    | Weight (net/gross)                            |         | kg                   | 2.5/4.5           | 2.5/4.5       |
| Outdoor unit                                       | Dimensions (width x depth x height)           |         | mm                   | 570x570x260       | 570x570x260   |
|                                                    | Transport dimensions (width x depth x height) |         | mm                   | 655x655x290       | 655x655x290   |
|                                                    | Weight (net/gross)                            |         | kg                   | 16.2/21.4         | 16.5/19.0     |
|                                                    | Airflow                                       |         | m³/min               | 6.9/8.4/10.3      | 8.2/9.2/11.0  |
|                                                    | Sound pressure level                          |         | dB(A)                | 35/39/43          | 38/42/46      |
|                                                    | Sound power level                             |         | dB(A)                | 57                | 57            |
| Refrigerant                                        | Type                                          |         |                      | R410A             | R410A         |
|                                                    | Amount                                        |         | kg                   | 1.05              | 1.78          |
| Refrigerant piping                                 | Liquid / Gas                                  |         | mm                   | Ø6.35 / Ø9.52     | Ø6.35 / Ø12.7 |
|                                                    | Max. length                                   |         | m                    | 25                | 30            |
|                                                    | Max. height difference                        |         | m                    | 10                | 20            |
| Condensate drain pipe                              |                                               |         | mm                   | Ø25               | Ø25           |
| Recommended electrical wiring and protections      | Indoor unit power supply cable                |         | mm²                  | 3x1.5             | 3x1.5         |
|                                                    | Outdoor unit power supply cable               |         | mm²                  | 3x1.5             | 3x1.5         |
|                                                    | Transmission                                  |         |                      | 2x0.75 (shielded) |               |
|                                                    | Protection                                    |         | A                    | 16                | 16            |
| Recommended operating temperature ranges (outdoor) | Cooling                                       |         | °C                   | -15 ~ 50          |               |
|                                                    | Heating                                       |         | °C                   | -15 ~ 24          |               |

Capacity is based on the following conditions:

Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB

Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB

Installation length: length of connected pipes is 7,5 m; the height difference is 0.

The unit contains fluorinated greenhouse gases R410A GWP=2088.

# NOXA PROFESSIONAL

## DUCTED



### STANDARD FEATURES



Wired Remote Controller



Auto Restart



Hot start



Self-diagnostic



Turbo



Emergency Operation



Wireless Remote Controller



Timer



Temperature Compensation



Alarm Output



Low Ambient Cooling

### OPTIONAL FUNCTIONS



Central Controller



Fresh Air



Follow me



Controller

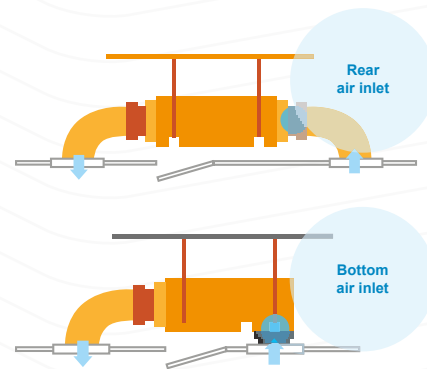


### LOW AMBIENT COOLING

Thanks to the built-in, additional low ambient kit and specially designed PCB control board, the air-conditioner can operate in cooling mode even if the outdoor temperature falls to  $-15^{\circ}\text{C}$ .

### HIGH AVAILABLE STATIC PRESSURE UP TO 160PA

High available static pressure, up to 160 Pa, considerably improves the design flexibility of the duct type unit installation. This way, air easily overcomes the line and local resistance in the refrigeration system.



### UNIVERSAL DUCT INSTALLATION

Two air intake directions - on the rear and from the bottom. The air inlet can be easily changed by installer during assembly.



## TECHNICAL DATA

| Set                                                |                                        |         |                     | SDS-50B-B1           | SDS-70B-B1     | SDS-100B-B1    | SDS-100B-B3    | SDS-140B-B3    | SDS-160B-B3    |
|----------------------------------------------------|----------------------------------------|---------|---------------------|----------------------|----------------|----------------|----------------|----------------|----------------|
| Indoor unit                                        |                                        |         |                     | NXRI-50XDS-1B        | NXRI-70XDS-1B  | NXRI-100XDS-1B | NXRI-100XDS-1B | NXRI-140XDS-1B | NXRI-160XDS-1B |
| Outdoor unit                                       |                                        |         |                     | NXOL-50B-11B         | NXOL-70B-11B   | NXOL-100B-11B  | NXOL-100B-31B  | NXOL-140B-31B  | NXOL-160B-31B  |
| Indoor unit power supply (V/Ph/Hz)                 |                                        |         |                     | 220-240/1/50         | 220-240/1/50   | 220-240/1/50   | 220-240/1/50   | 220-240/1/50   | 220-240/1/50   |
| Outdoor unit power supply (V/Ph/Hz)                |                                        |         |                     | 220-240/1/50         | 220-240/1/50   | 220-240/1/50   | 380-415/3/50   | 380-415/3/50   | 380-415/3/50   |
| Version                                            |                                        |         |                     | Reversible heat pump |                |                |                |                |                |
| Cooling                                            | Capacity                               | rated   | kW                  | 5.2                  | 7.0            | 10.4           | 10.4           | 14.0           | 15.4           |
|                                                    |                                        | min-max | kW                  | 1.2~6.2              | 2.2~8.2        | 2.6~12.0       | 2.6~12.0       | 4.2~15.2       | 5.9~17.3       |
|                                                    | Rated power input                      |         | kW                  | 1.72                 | 2.19           | 4.06           | 4.06           | 5.15           | 5.42           |
|                                                    | EER                                    |         | kW/kW               | 3.02                 | 3.20           | 2.56           | 2.56           | 2.72           | 2.84           |
|                                                    | Annual energy consumption              |         | kWh/year            | 285                  | 390            | 614            | 614            | 808            | 935            |
|                                                    | SEER                                   |         |                     | 6.1                  | 6.1            | 6.1            | 6.1            | 6.1            | 6.1            |
| ErP Energy Efficiency Class                        |                                        |         |                     | A++                  | A++            | A++            | A++            | A++            | A++            |
| Heating                                            | Capacity                               | rated   | kW                  | 5.6                  | 7.6            | 11.2           | 11.2           | 16.0           | 17.7           |
|                                                    |                                        | min-max | kW                  | 1.8~7.0              | 2.4~8.7        | 2.9~13.2       | 2.9~13.2       | 3.7~18.0       | 4.7~20.5       |
|                                                    | Rated power input                      |         | kW                  | 1.50                 | 2.04           | 2.99           | 2.99           | 4.26           | 5.18           |
|                                                    | COP                                    |         | kW/kW               | 3.71                 | 3.72           | 3.71           | 3.71           | 3.76           | 3.42           |
|                                                    | Annual energy consumption              |         | kWh/year            | 1620                 | 1902           | 3016           | 3016           | 4261           | 4302           |
|                                                    | SCOP                                   |         |                     | 4.0                  | 4.0            | 4.0            | 4.0            | 4.0            | 4.0            |
| ErP Energy Efficiency Class                        |                                        |         |                     | A+                   | A+             | A+             | A+             | A+             | A+             |
| Max. current input                                 |                                        |         | A                   | 10.0                 | 13.5           | 10.0           | 10.0           | 11.2           | 14.0           |
| Indoor unit                                        | Dimensions (width x depth x height)    |         | mm                  | 880x674x210          | 1100x774x249   | 1360x774x249   | 1360x774x249   | 1200x874x300   | 1200x874x300   |
|                                                    | Transport dimensions                   |         | mm                  | 1070x725x270         | 1305x805x305   | 1570x805x305   | 1570x805x305   | 1405x915x355   | 1405x915x355   |
|                                                    | Weight                                 |         | kg                  | 25.6                 | 31.5           | 40.5           | 40.5           | 47.6           | 47.6           |
|                                                    | Static pressure                        |         | Pa                  | 25 (0~100)           | 25 (0~160)     | 37 (0~160)     | 37 (0~160)     | 50 (0~160)     | 50 (0~160)     |
|                                                    | Airflow (Low/Medium/High)              |         | m <sup>3</sup> /min | 11.4/14.2/16.8       | 14.0/17.6/20.8 | 12.5/19.2/23.3 | 12.5/19.2/23.3 | 28.0/34.0/40.0 | 30.3/36.8/43.3 |
|                                                    | Sound pressure level (Low/Medium/High) |         | dB(A)               | 40/42/44             | 40/42/44       | 40/43/47       | 40/43/47       | 48/49/50       | 50/52/54       |
|                                                    | Sound power level                      |         | dB(A)               | 62                   | 63             | 64             | 64             | 69             | 74             |
| Outdoor unit                                       | Dimensions (width x depth x height)    |         | mm                  | 800x333x554          | 845x363x702    | 946x410x810    | 946x410x810    | 952x415x1333   | 952x415x1333   |
|                                                    | Transport dimensions                   |         | mm                  | 920x390x615          | 965x395x765    | 1090x500x875   | 1090x500x875   | 1095x495x1480  | 1095x495x1480  |
|                                                    | Weight (net/gross)                     |         | kg                  | 35.6/38.5            | 66.8/72.6      | 81.5/87.0      | 81.5/87.0      | 106.7/119.9    | 111.3/124.3    |
|                                                    | Airflow                                |         | m <sup>3</sup> /min | 35.0                 | 45.0           | 66.7           | 66.7           | 125.0          | 125.0          |
|                                                    | Sound pressure level                   |         | dB(A)               | 57                   | 62             | 64             | 64             | 66             | 66             |
|                                                    | Sound power level                      |         | dB(A)               | 65                   | 66             | 68             | 68             | 72             | 77             |
| Refrigerant                                        | Type                                   |         |                     | R32                  | R32            | R32            | R32            | R32            | R32            |
|                                                    | Amount                                 |         | kg                  | 1.35                 | 1.50           | 2.40           | 2.40           | 2.80           | 2.95           |
| Refrigerant piping                                 | Liquid / Gas                           |         | mm                  | Ø6.35 / Ø12.7        | Ø9.52 / Ø15.9  | Ø9.52 / Ø15.9  | Ø9.52 / Ø15.9  | Ø9.52 / Ø15.9  | Ø9.52 / Ø15.9  |
|                                                    | Max. length                            |         | m                   | 30                   | 50             | 65             | 65             | 65             | 65             |
|                                                    | Max. height difference                 |         | m                   | 20                   | 25             | 30             | 30             | 30             | 30             |
| Condensate drain pipe                              |                                        |         | mm                  | Ø32                  | Ø32            | Ø32            | Ø32            | Ø32            | Ø32            |
| Recommended electrical wiring and protections      | Indoor unit power supply cable         |         | mm <sup>2</sup>     | 3x1.5                | 3x1.5          | 3x1.5          | 3x1.5          | 3x1.5          | 3x1.5          |
|                                                    | Outdoor unit power supply cable        |         | mm <sup>2</sup>     | 3x2.5                | 3x2.5          | 3x4.0          | 5x2.5          | 5x2.5          | 5x2.5          |
|                                                    | Transmission                           |         |                     | 2x1.0 (shielded)     |                |                |                |                |                |
|                                                    | Protection                             |         | A                   | 16                   | 20             | 16             | 16             | 16             | 20             |
| Recommended operating temperature ranges (outdoor) |                                        | Cooling | °C                  | -15 ~ 50             |                |                |                |                |                |
|                                                    |                                        | Heating | °C                  | -15 ~ 24             |                |                |                |                |                |

Capacity is based on the following conditions:

Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB

Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB

Installation length: length of connected pipes is 7,5 m; the height difference is 0.

The unit contains fluorinated greenhouse gases R32 GWP=675.



NOXA  
Control system

# NOXA CONTROL SYSTEM



## FUNCTIONS

- On / Off
- Change of operation mode
- Change of fan speed
- Set temperature adjustment
- Horizontal / vertical louver control and swing
- Clock
- Timer
- Mute on / switching off the backlit
- Backlit display
- Turbo
- Sleep mode

# RG-57

WIRELESS  
REMOTE CONTROLLER

## TIMER

The built-in timer enables to program the time of automatic switching on/off of the air-conditioner.

## SPECIFICATIONS

|                                          |                  |
|------------------------------------------|------------------|
| Model                                    | RG-57            |
| Dimensions (width x height x depth) [mm] | 55×140×23        |
| Power supply                             | 1.5V(LR03/AAA)×2 |



## FUNCTIONS

- On / Off
- Clock settings
- Operation mode settings
- Fan speed settings
- Set temperature adjustment
- Quiet operation
- Key lock
- Swing function
- "Follow me" function

# KJR-12B

WIRED  
REMOTE CONTROLLER

## "FOLLOW ME" FUNCTION

This function activates the temperature sensor built-in the controller. It replaces the sensor installed in the indoor unit. The air-conditioner will control the air temperature in the closest vicinity of the controller and this way, the temperature adjustment will become more precise and comfortable.

## SPECIFICATIONS

|                                          |            |
|------------------------------------------|------------|
| Model                                    | KJR-12B    |
| Dimensions (width x height x depth) [mm] | 120×120×15 |
| Power supply                             | DC 5V      |



# NOXA Accessories



# R410A REFRIGERANT DETECTOR

FOR SPLIT NA VRF REFRIGERANT SYSTEMS



## DESTINATION

Refrigerant gas (R410A) detectors are aimed to remedy the effects of harmful refrigerant concentrations influence on people and to indicate excess of the concentration limit values.

## FUNCTIONS

- built-in control microprocessor = reliability, operation stability, thermal compensation system
- ease of installation (at approx. 0,3 m above the ground)
- short time of gas penetration through the sensor guard
- aesthetic casing intended for wall assembly (possible concealed installation in a distribution box)
- built-in audible and visual signalling
- NO and NC contact outputs (low voltage)
- calibrated alarm threshold as standard
- semiconductor gas sensor with the long-term durability (over 10 years)

## APPLICATION

- single- and multi-family housing
- office buildings
- public utility buildings
- hotels

## OPERATING PRINCIPLE

Gas detectors continuously measure the concentration of specific gas in a room. The control involves regular measurements of gas concentration in surrounding air. Once the specific limit is exceeded, the visual and audible signalling is triggered. Additionally, the low-voltage NO and NC contacts are enabled, which makes it possible to stop operation of the air-conditioning system indoor unit.

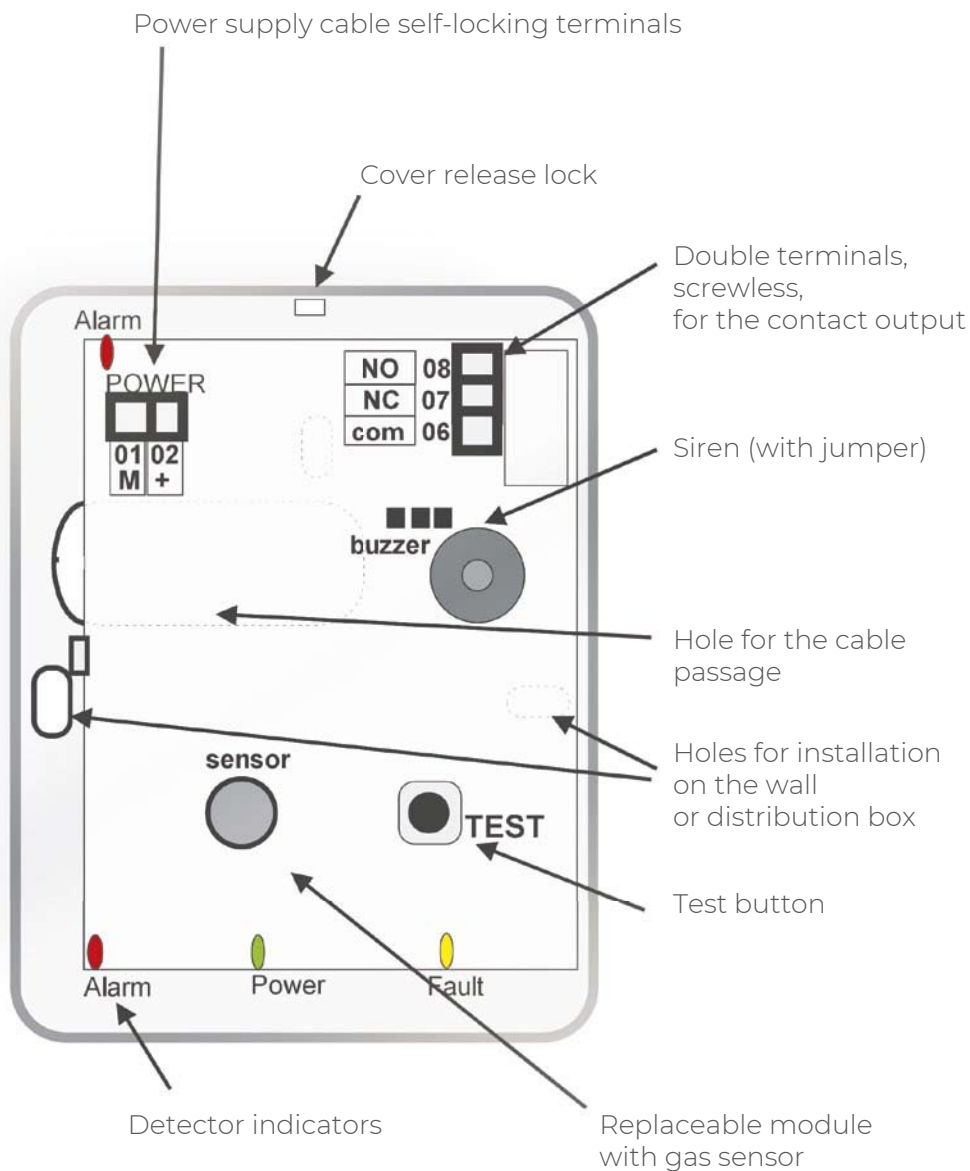
Unit switching off signal in case of detected exceeded concentration of refrigerant in a room



## TECHNICAL DATA

| Model                               | NX-DET-VI                                                                                                               |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Power supply                        | 5V; operation range (4,5V÷7,5V)                                                                                         |
| Operating temperature               | -5°C do 45°C (recommended) / -5°C do 45°C (temporary permitted / < 1h/24h)                                              |
| Air humidity range                  | od 30% do 90% RH (relative)                                                                                             |
| Gas sensor                          | semiconductor, replaceable, expected lifetime approx. 10 years                                                          |
| Detected refrigerant                | R410A in range of 100÷3000 ppm                                                                                          |
| Disruptive factors                  | significant oxygen deficiency (< 18% of volume);<br>high growth of humidity; chlorine; hydrocarbons; hydrogen; alcohols |
| Alarm thresholds                    | A1, A2, A3 (A2 threshold initiates response on the contact output)                                                      |
| Alarm threshold setting accuracy    | 15% in calibration conditions                                                                                           |
| Threshold thermal stability         | ± 15% in range from 0°C to 40°C                                                                                         |
| Long-term stability                 | ± 20%/year, not less than ± 30% during 3 years                                                                          |
| Calibration period                  | recommended: ≤ 36 months / optimal every 12 months                                                                      |
| Visual signalling                   | LED lamps available on the lower and upper edge                                                                         |
| Audible signalling                  | alarm siren, 65 dB, different for each alarm thresholds,<br>the acoustic signal can be permanently switched off         |
| Outputs                             | contact for A2 threshold, NO and NC type, bistable relays, max. 2A/30VDC                                                |
| Dimensions (height x width x depth) | 100x80x30 mm                                                                                                            |
| Casing / Weight                     | ABS, IP30 / approx. 90g                                                                                                 |

**DETECTOR DESCRIPTION**  
**INSTALLATION POSITION**  
**(WITHOUT FRONT COVER)**





# NOXA Family

# AIR PURIFIER

- ~ IONIZER
- ~ AUTO SLEEP MODE
- ~ 4-STEP FILTRATION ADJUSTMENT
- ~ TIMER



## CLEAN AIR

Usage of triple filtration consisting of active carbon filter and HEPA filter, allows to obtain the maximum clean air in a room. The air purifier is also equipped with a filter contamination sensor, which reminds the user of its cleaning or replacement.



## IONIZER

Releases negative and positive ions, neutralises unpleasant smells, dust, smoke and pollens, providing fresh and healthy air in a room.

## TECHNICAL DATA

| Model                                                |                   | NXAP-20M-BD                         |
|------------------------------------------------------|-------------------|-------------------------------------|
| Power supply (V/Ph/Hz)                               |                   | 240/1/50                            |
| Airflow                                              | m <sup>3</sup> /h | 200                                 |
| Power input                                          | W                 | 50                                  |
| Dimensions (width x depth x height)                  | mm                | 325x175x500                         |
| Weight                                               | kg                | 5.7                                 |
| Sound pressure level                                 | dB(A)             | 25                                  |
| Dedicated cubic capacity of a room for a single unit | m <sup>3</sup>    | 75                                  |
| Filtration type                                      |                   | HEPA filter, carbon filter, ionizer |

# MOBILE

## COOLING AND HEATING



### REVERSIBLE HEAT PUMP

The heat pump system is an ideal alternative for all traditional heating appliances. It ensures lower electric energy consumption, while maintaining high heating capacity. Additionally, by transferring warm air through the whole room, it provides significantly higher thermal comfort than with use of electric devices.

### TECHNICAL DATA

| Model                                                            |                                        |         | NXM-25AP01-A                                  | NXM-35AP01-A   |
|------------------------------------------------------------------|----------------------------------------|---------|-----------------------------------------------|----------------|
| Type                                                             |                                        |         | mobile reversible heat pump                   |                |
| Power supply                                                     |                                        | V/fz/Hz | 220-240/1/50                                  |                |
| Cooling                                                          | Rated capacity                         | kW      | 2.6                                           | 3.5            |
|                                                                  | Rated input power                      | W       | 1010                                          | 1350           |
|                                                                  | Operating current                      | A       | 4.4                                           | 5.9            |
|                                                                  | EER                                    | W/W     | 2.6                                           | 2.6            |
|                                                                  | Energy Efficiency Class                |         | A                                             | A              |
| Heating                                                          | Rated capacity                         | kW      | 2.5                                           | 2.9            |
|                                                                  | Rated input power                      | kW      | 955                                           | 1130           |
|                                                                  | Operating current                      | A       | 4.2                                           | 5.0            |
|                                                                  | COP                                    | W/W     | 2.6                                           | 2.6            |
|                                                                  | Energy Efficiency Class                |         | A+                                            | A+             |
| Condensate amount                                                |                                        | l/h     | 1.0                                           | 1.2            |
| Internal fan                                                     | Airflow                                | m³/h    | 312/318/372                                   | 342/366/426    |
|                                                                  | Sound pressure level (Low/Medium/High) | dB(A)   | 46/49/52                                      | 52.4/52.7/53.7 |
|                                                                  | Sound power level (High speed)         | dB(A)   | 64                                            | 65             |
| Stand-by mode input power                                        |                                        | W       | 0,5                                           | 0,5            |
| Refrigerant                                                      | Type                                   |         | R410A                                         | R410A          |
|                                                                  | GWP                                    |         | 2088                                          | 2088           |
|                                                                  | Amount                                 | kg      | 0.44                                          | 0.42           |
| Control system                                                   |                                        |         | built-in panel and wireless remote controller |                |
| Electrical protection                                            |                                        | A       | 16                                            | 25             |
| Recommended indoor operating temperature range (cooling/heating) |                                        | °C      | 17-35/5-30                                    | 17-35/5-30     |
| Applicable floor space                                           |                                        | m²      | 12-18                                         | 16-23          |
| Dimensions (width x depth x height)                              |                                        | mm      | 466x397x765                                   | 466x397x765    |
| Transport dimensions (width x depth x height)                    |                                        | mm      | 515x443x880                                   | 515x443x880    |
| Weight (net/gross)                                               |                                        | kg      | 30.5/34.5                                     | 34.0/38.8      |

Air discharge pipe - length: 1500 mm, diameter: 150 mm (included).

# MOBILE ONLY COOLING



## 0.5W IN STANDBY MODE

When the room temperature reaches the set temperature, the unit turns into the standby mode and as a result the energy consumption is reduced by 95%.

## TECHNICAL DATA

| Model                                                            |                                        |         | NXP-25APO1-CA                                 | NXP-35APO1-CA |
|------------------------------------------------------------------|----------------------------------------|---------|-----------------------------------------------|---------------|
| Typ                                                              |                                        |         | cooling                                       |               |
| Power supply                                                     |                                        | V/fz/Hz | 220-240/1/50                                  |               |
| Cooling                                                          | Rated capacity                         | kW      | 2.6                                           | 3.5           |
|                                                                  | Rated input power                      | W       | 1010                                          | 1350          |
|                                                                  | Operating current                      | A       | 4.4                                           | 5.9           |
|                                                                  | EER                                    | W/W     | 2.6                                           | 2.6           |
|                                                                  | Energy Efficiency Class                |         | A                                             | A             |
| Internal fan                                                     | Airflow                                | m³/h    | 318/342/375                                   | 342/366/390   |
|                                                                  | Sound pressure level (Low/Medium/High) | dB(A)   | 45/48/51                                      | 51/52/54      |
|                                                                  | Sound power level (High speed)         | dB(A)   | 65                                            | 65            |
| Condensate amount                                                |                                        | l/h     | 1.0                                           | 1.2           |
| Refrigerant                                                      | Type                                   |         | R410A                                         | R410A         |
|                                                                  | GWP                                    |         | 2088                                          | 2088          |
|                                                                  | Amount                                 | kg      | 0.44                                          | 0.42          |
| Stand-by mode input power                                        |                                        | W       | 0,5                                           | 0,5           |
| Control system                                                   |                                        |         | built-in panel and wireless remote controller |               |
| Electrical protection                                            |                                        | A       | 16                                            | 25            |
| Recommended indoor operating temperature range (cooling/heating) |                                        | °C      | 17-35/5-30                                    | 17-35/5-30    |
| Applicable floor space                                           |                                        | m²      | 12-18                                         | 16-23         |
| Dimensions (width x depth x height)                              |                                        | mm      | 466x397x765                                   | 466x397x765   |
| Transport dimensions (width x depth x height)                    |                                        | mm      | 515x443x880                                   | 515x443x880   |
| Weight (net/gross)                                               |                                        | kg      | 30.5/34.5                                     | 34.0/38.8     |

Air discharge pipe - length: 1500 mm, diameter: 150 mm (included).

# AIR COOLER

## OPERATING PRINCIPLE

Air coolers employ the natural process of water evaporation. Thus, they are safe for human health and effectively eliminate all contaminations, dust and unpleasant smells from the environment. They can operate on an open space - in restaurant's garden, tent but also in residential and office areas.



### CLEAN AIR

Usage of triple filtration consisting of active carbon filter and HEPA filter, allows to obtain the maximum clean air in a room. The air purifier is also equipped with a filter contamination sensor, which reminds the user of its cleaning or replacement.



### IONIZER

Releases negative and positive ions, neutralises unpleasant smells, dust, smoke and pollens, providing fresh and healthy air in a room.

## TECHNICAL DATA

| Model                                                |                   | NXAC-200A                           |
|------------------------------------------------------|-------------------|-------------------------------------|
| Power supply (V/Ph/Hz)                               |                   | 230/1/50                            |
| Airflow                                              | m <sup>3</sup> /h | 200                                 |
| Power input                                          | W                 | 50                                  |
| Dimensions (width x depth x height)                  | mm                | 400x300x960                         |
| Weight                                               | kg                | 5.7                                 |
| Sound pressure level                                 | dB(A)             | 25                                  |
| Dedicated cubic capacity of a room for a single unit | m <sup>3</sup>    | 75                                  |
| Filtration type                                      |                   | HEPA filter, carbon filter, ionizer |

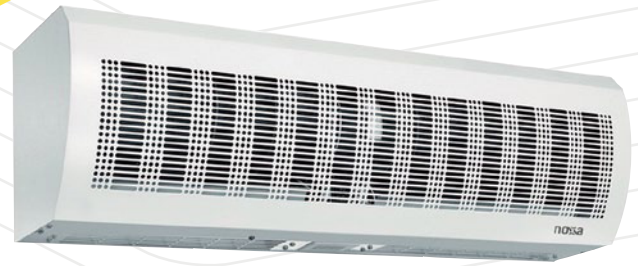




# NOXA Air

# AIR CURTAIN

## Blue KING



### OPERATING PRINCIPLE

Air curtains are equipped with a centrifugal fan with forward curved spiral blades, which provide large airflow (air velocity reaching 20 m/s) and simultaneously ensure quiet operation. Casing made of sheet steel, painted white, with fireproof structure. Curtains employ PTC type heaters, which eliminate the risk of avalanche breakdown or short-circuit, even at high air humidity. Cool or warm airflow is controlled by a microprocessor.

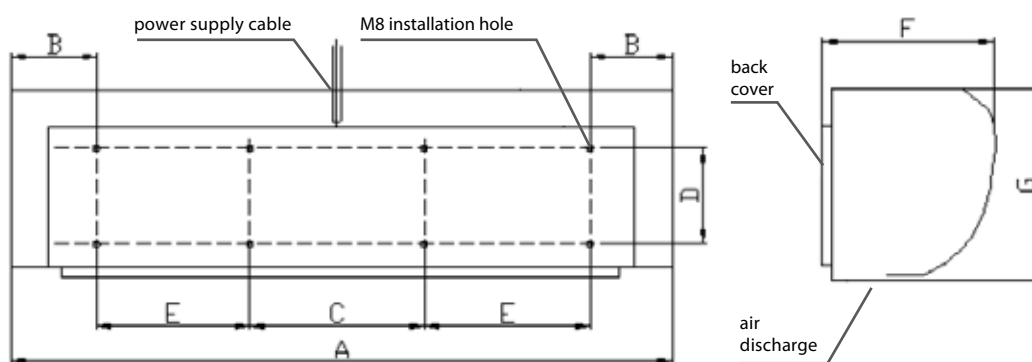
Fan is stopped 3 minutes after switching off the curtain, in order to protect the heater against overheating.

Additionally, the air curtains are equipped with a door contactor that enables unit powering in the moment of its opening.

All air curtains (hot/cold) are additionally equipped with a wireless controller. Moreover, the cold air curtains controller enables air-flow velocity adjustment.

### APPLICATION

Air curtains are intended for operation in business, commercial and public facilities, industry and cold stores.



## UNIT DIMENSIONS

| Model          | A    | B   | C   | D   | E   | F   | G   |
|----------------|------|-----|-----|-----|-----|-----|-----|
| NXACC101000AV1 | 1000 | 80  | 240 | 100 | 300 | 195 | 220 |
| NXACC151000AV1 | 1500 | 30  | 360 | 100 | 360 | 195 | 220 |
| NXACC201000AV1 | 2000 | 100 | 360 | 100 | 360 | 195 | 220 |
| NXACH101045EV1 | 1000 | 350 | 240 | 100 | 300 | 220 | 195 |
| NXACH151055EV1 | 1500 | 35  | 360 | 100 | 360 | 220 | 195 |
| NXACH203100EV1 | 2000 | 35  | 360 | 100 | 360 | 220 | 195 |

## TECHNICAL DATA

| Model          | Voltage   | Power input | Airflow             | Airflow velocity | Max. sound pressure level | Weight | Dimensions   |
|----------------|-----------|-------------|---------------------|------------------|---------------------------|--------|--------------|
|                | [V/Hz]    | [W]         | [m <sup>3</sup> /h] | [m/s]            | [dB]                      | kg     | mm           |
| NXACC101000AV1 | 220V 50Hz | 180         | 1980/1164           | 11               | ≤45                       | 15,5   | 1000x220x195 |
| NXACC151000AV1 | 220V 50Hz | 220         | 2970/1747           | 11               | ≤47                       | 22,4   | 1500x220x195 |
| NXACC201000AV1 | 220V 50Hz | 320         | 3960/2329           | 11               | ≤51                       | 28     | 2000x220x195 |

| Model          | Voltage               | Power input |             | Airflow             | Airflow velocity | Max. sound pressure level | Weight | Dimensions   |
|----------------|-----------------------|-------------|-------------|---------------------|------------------|---------------------------|--------|--------------|
|                | [V/Hz]                | Fan [W]     | Heater [kW] | [m <sup>3</sup> /h] | [m/s]            | [dB]                      | kg     | mm           |
| NXACH101045EV1 | 230V/50Hz 4500W 8M/S  | 180         | 4,5         | 1100/647            | 7-8              | ≤45                       | 16,3   | 1000x220x195 |
| NXACH151055EV1 | 230V/50Hz 5500W 8M/S  | 220         | 5,5         | 1800/1059           | 7-8              | ≤47                       | 23,4   | 1500x220x195 |
| NXACH203100EV1 | 400V/50Hz 10000W 8M/S | 320         | 10          | 2400/1412           | 7-8              | ≤51                       | 28,5   | 2000x220x195 |

# HEAT RECOVERY UNIT

ERV series

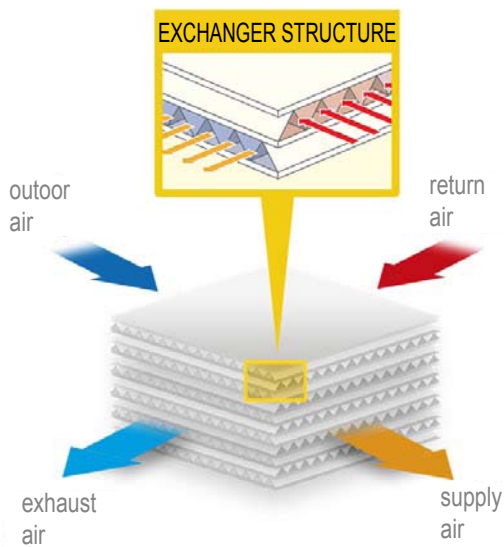
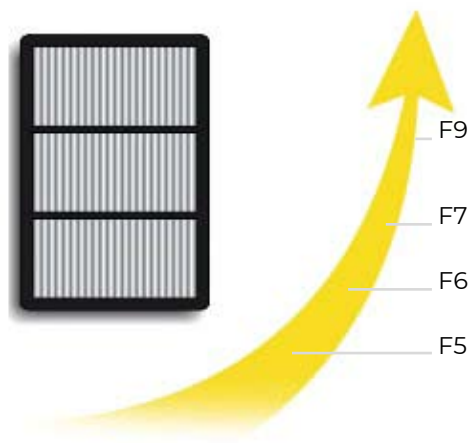


**NEW**

**ERP 2018 COMPLIANCE**

## ADVANCED FILTRATION SYSTEM

As a standard, NOXA ERV heat recovery units are equipped with the filtration system, based on a set of G3 pre-filters installed on the air inlet and outlet. Additionally, in order to obtain high air quality in a room, a whole range of high efficiency filters is available, starting from F5 up to F9 filter. Choice of the filtration class makes it possible to adapt functionality of the heat recovery unit to the customer needs.



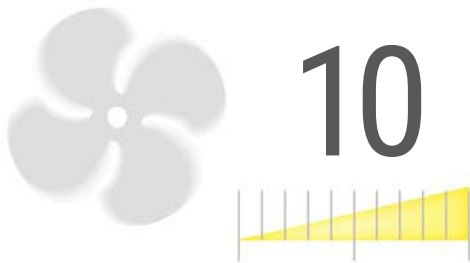
## ADVANCED, ENTHALPY, CROSS-FLOW HEAT EXCHANGER

NOXA heat recovery units are equipped with high performance enthalpy heat exchanger that enables higher percentage values of temperature recovery, both in summer and winter. Cross-flow exchanger provides also moisture recovery between air supplied to the room and exhaust air, supporting thereby further increase of occupants comfort.

## NIGHT FREE-COOLING

Warm air accumulated during the whole day is removed and exchanged by cold air during the night. This functionality lowers building thermal load and also general temperature of the usable space (ie. office, public utility or residual buildings).

The lower thermal load of the building, before powering the air-conditioning system, shortens its operating time and leads to savings.



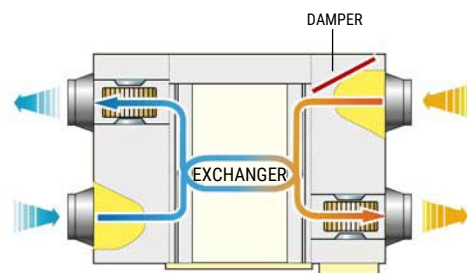
## 10 FAN SPEEDS

Each NOXA ERV unit features the latest, brushless BLDC motors equipped with 10 speeds, which precisely provide the adequate amount of air in any conditions.

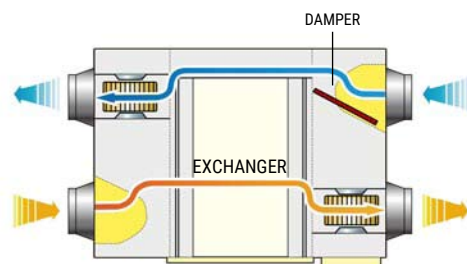
## AUTO BY-PASS

When the outdoor temperature reaches the proper value (Tz ranges e.g. from 18 to 23 °C - possible to set using the wired controller), the by-pass system damper opens and fans, same as in the night free-cooling mode, switch to the high speed.

HEAT RECOVERY MODE



BY-PASS MODE



## NOISE LEVEL

NOXA ERV units features a very low noise level of less than 50 dB(A) for most of models.

|                  | Sound level dB |                |                                  |                                |
|------------------|----------------|----------------|----------------------------------|--------------------------------|
| silence          | 0              |                | Audibility threshold             | NOXA ERV operation sound level |
| almost inaudible | 10             | paper rustling |                                  |                                |
| barely heard     | 20             | ticking clock  |                                  |                                |
| very quiet       | 30             | quiet garden   |                                  |                                |
| quiet            | 40             | TV studio      | Mid-range of audible frequencies |                                |
| rather quiet     | 50             | talk           |                                  |                                |
| moderately loud  | 60             | office         |                                  |                                |
| loud             | 70             | road traffic   | Threshold of pain                |                                |
| very loud        | 80             | loud radio     |                                  |                                |
| very loud        | 90             | plant floor    |                                  |                                |
| extreme loud     | 100            | jackhammer     |                                  |                                |
| unbearable       | 110            | rock concert   |                                  |                                |
|                  | 120            | airplane       |                                  |                                |
| pain             | 130            |                |                                  |                                |

## AVAILABLE ADDITIONAL CONNECTORS

NOXA ERV units are equipped with additional contacts available on the PCB, that extend their functionality. The option to connect CO<sub>2</sub> and humidity sensors increases level of comfort in use and its safety. Available, additional potential-free contact enables connecting the unit with a ventilation hood and cooperation of both devices.

## DOUBLE ALARM OF FILTER CONTAMINATION

Double protection against filter contamination applied in the NOXA ERV heat recovery unit, significantly increased the operational safety level of the unit. The built-in alarm provides the user with setting the reminder of service or filter replacement in range from 45 do 180 days. Pressure value measurement offers certainty of correct operation of the NOXA ERV units, thanks to the installed pressure switch.

## WIRED REMOTE CONTROLLER

Heat recovery units can be controlled by one of the available wall-mounted, wired remote controllers. As a standard, the NOXA ERV units are equipped with a basic, mechanical controller. The touch panel controller is available as an optional equipment.



NXERV\_ST2

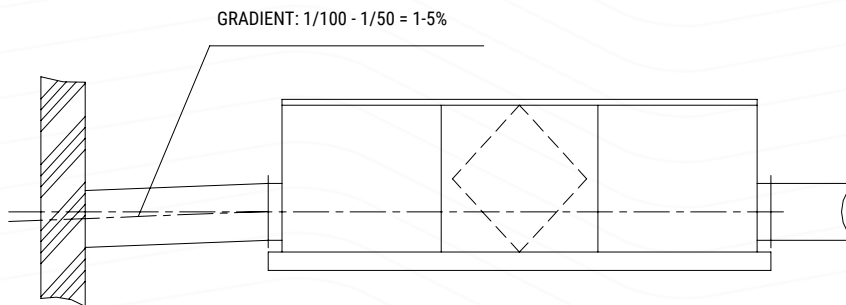


NXERV\_ST1

| No. | Functionality                                                                                              | Standard controller | Advanced controller (option) |
|-----|------------------------------------------------------------------------------------------------------------|---------------------|------------------------------|
|     |                                                                                                            | NXERV_ST1           | NXERV_ST2                    |
| 1   | Timer                                                                                                      | •                   | •                            |
| 2   | Control of the fan 10 speeds                                                                               | •                   | •                            |
| 3   | Night free-cooling (available potential-free contact for the external temperature sensor)                  | •                   | •                            |
| 4   | Real time clock                                                                                            | •                   | •                            |
| 5   | Auto by-pass mode (required external temperature sensor)                                                   | •                   | •                            |
| 6   | Control of the electric post-heater                                                                        | •                   | •                            |
| 7   | Control of the filter contamination (double protection system)                                             | •                   | •                            |
| 8   | Temperature setting range (with connected heater)                                                          | •                   | •                            |
| 9   | Cooperation with the ventilation hood (forced ventilation)                                                 | •                   | •                            |
| 10  | Humidity sensor support                                                                                    | -                   | •                            |
| 11  | CO <sub>2</sub> (carbon dioxide) sensor support                                                            | •                   | •                            |
| 12  | Humidity level display                                                                                     | -                   | •                            |
| 13  | CO <sub>2</sub> concentration level display                                                                | -                   | •                            |
| 14  | BMS system compatibility (RS485 transmission)                                                              | •                   | •                            |
| 15  | Exchanger defrost function                                                                                 | •                   | •                            |
| 16  | Information regarding filter replacement (time and pressure difference message)                            | •                   | •                            |
| 17  | Touchscreen display                                                                                        | -                   | •                            |
| 18  | Operation stop in case of fire (cooperation with fire protection system by the connection of smoke sensor) | •                   | •                            |
| 19  | Automatic operation mode (auto mode after connecting: CO <sub>2</sub> /humidity sensor)                    | •/-                 | •/•                          |

## EXAMPLE OF NOXA ERV HEAT RECOVERY UNITS APPLICATION

In order to avoid condensation inside the duct it is important to insulate both conduits leading outside (fresh air and exhaust air duct). Additionally, the duct supplying fresh air to the unit and removing outside filtered air, should be installed with inclination, in order to avoid possible flooding of exchanger.

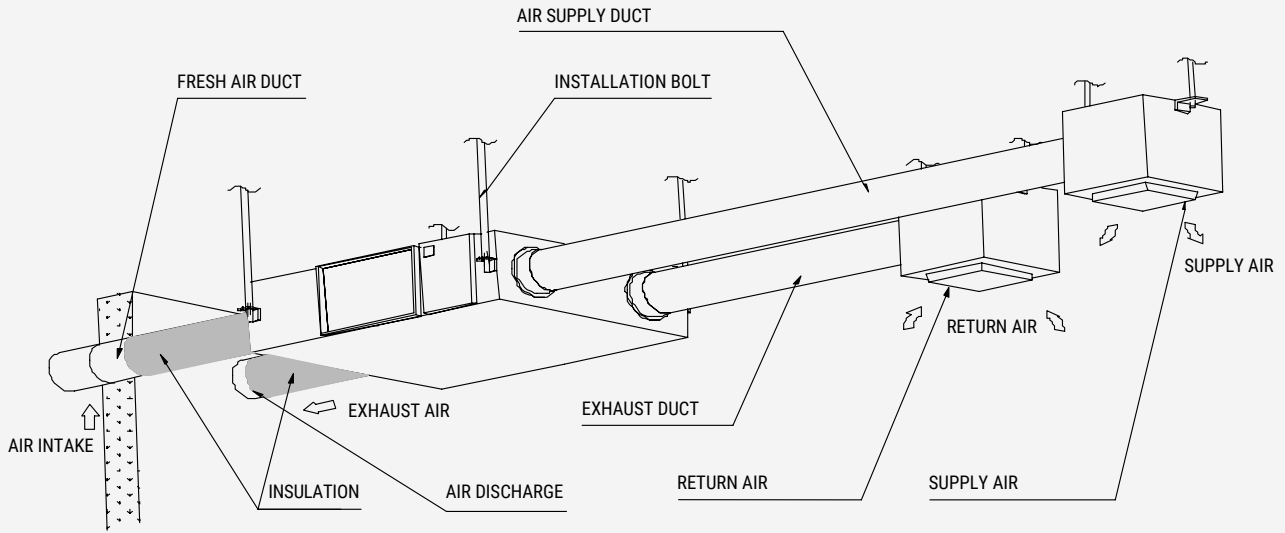


## TECHNICAL DATA

| Model                                          |                       |                   | NXERV-150V1  |            |           | NXERV-250V1  |            |           | NXERV-350V1  |            |           | NXERV-500V1  |            |           |    |
|------------------------------------------------|-----------------------|-------------------|--------------|------------|-----------|--------------|------------|-----------|--------------|------------|-----------|--------------|------------|-----------|----|
| Power supply                                   |                       | Hz/-V             | 50/1/220-240 |            |           | 50/1/220-240 |            |           | 50/1/220-240 |            |           | 50/1/220-240 |            |           |    |
| Speed                                          |                       |                   | Low (1)      | Medium (5) | High (10) | Low (1)      | Medium (5) | High (10) | Low (1)      | Medium (5) | High (10) | Low (1)      | Medium (5) | High (10) |    |
| Available fan speeds                           | Supply fan            |                   | 10           |            |           | 10           |            |           | 10           |            |           | 10           |            |           |    |
|                                                | Exhaust fan           |                   | 10           |            |           | 10           |            |           | 10           |            |           | 10           |            |           |    |
| Rated airflow                                  |                       | m <sup>3</sup> /h | 14           | 79         | 150       | 25           | 130        | 250       | 36           | 180        | 350       | 50           | 250        | 500       |    |
| Recovery efficiency: temperature               |                       | %                 | 80           | 80         | 75        | 81           | 81         | 73        | 82           | 82         | 74        | 84           | 84         | 76        |    |
| Recovery efficiency: enthalpy                  | Heating               |                   | %            | 65         | 65        | 60           | 71         | 71        | 62           | 70         | 70        | 62           | 72         | 72        | 63 |
|                                                | Cooling               |                   | %            | 70         | 70        | 63           | 73         | 73        | 65           | 73         | 73        | 65           | 75         | 75        | 67 |
| Sound pressure level in the heat exchange mode |                       | dB(A)             | 31,5         |            |           | 34,5         |            |           | 37,5         |            |           | 39           |            |           |    |
| By-Pass                                        |                       |                   | Yes          |            |           | Yes          |            |           | Yes          |            |           | Yes          |            |           |    |
| Static pressure                                |                       | Pa                | 20           | 40         | 70        | 10           | 40         | 90        | 15           | 50         | 140       | 10           | 40         | 110       |    |
| Filtering class                                | G3 (supply/exhaust)   |                   | Standard     |            |           | Standard     |            |           | Standard     |            |           | Standard     |            |           |    |
|                                                | F9 (supply)           |                   | Standard     |            |           | Standard     |            |           | Standard     |            |           | Standard     |            |           |    |
|                                                | F5 / F6 / F7 (supply) |                   | Option       |            |           | Option       |            |           | Option       |            |           | Option       |            |           |    |
| Maximum power input                            |                       | kW                | 0,038        |            |           | 0,075        |            |           | 0,107        |            |           | 0,14         |            |           |    |
| Maximum current input                          |                       | A                 | 0,32         |            |           | 0,67         |            |           | 0,82         |            |           | 1,04         |            |           |    |
| Overall dimensions                             | Height                |                   | 264          |            |           | 270          |            |           | 270          |            |           | 270          |            |           |    |
|                                                | Width                 |                   | 580          |            |           | 599          |            |           | 804          |            |           | 904          |            |           |    |
|                                                | Depth                 |                   | 736          |            |           | 814          |            |           | 814          |            |           | 894          |            |           |    |
| Weight                                         |                       | kg                | 25           |            |           | 27           |            |           | 33           |            |           | 38           |            |           |    |
| Connection flange diameter                     |                       | mm                | 4 x Ø144     |            |           | 4 x Ø144     |            |           | 4 x Ø144     |            |           | 4 x Ø194     |            |           |    |
| Cable cross-section                            | Supply cable          |                   | 2x 1.5       |            |           | 2x 1.5       |            |           | 2x 1.5       |            |           | 2x 1.5       |            |           |    |
|                                                | Control cable         |                   | 2x 0.5       |            |           | 2x 0.5       |            |           | 2x 0.5       |            |           | 2x 0.5       |            |           |    |



### EXAMPLE OF ERV INSTALLATION

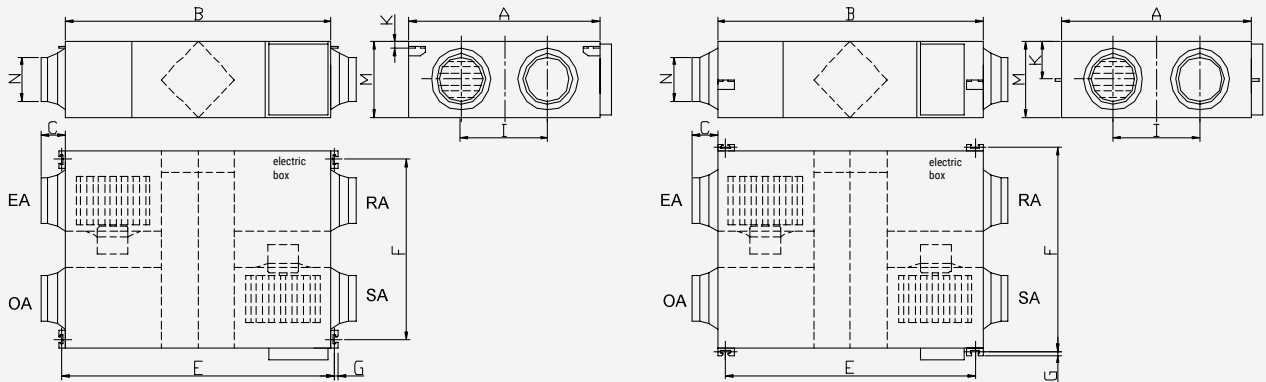


| NXERV-650V1  |            |           | NXERV-800V1  |            |           | NXERV-1000V1 |            |           | NXERV-1300V1 |            |           | NXERV-1500V1 |            |           | NXERV-2000V1 |            |           |
|--------------|------------|-----------|--------------|------------|-----------|--------------|------------|-----------|--------------|------------|-----------|--------------|------------|-----------|--------------|------------|-----------|
| 50/1/220-240 |            |           | 50/1/220-240 |            |           | 50/1/220-240 |            |           | 50/1/220-240 |            |           | 50/1/220-240 |            |           | 50/1/220-240 |            |           |
| Low (1)      | Medium (5) | High (10) | Low (1)      | Medium (5) | High (10) | Low (1)      | Medium (5) | High (10) | Low (1)      | Medium (5) | High (10) | Low (1)      | Medium (5) | High (10) | Low (1)      | Medium (5) | High (10) |
| 10           |            |           | 10           |            |           | 10           |            |           | 10           |            |           | 10           |            |           | 10           |            |           |
| 10           |            |           | 10           |            |           | 10           |            |           | 10           |            |           | 10           |            |           | 10           |            |           |
| 65           | 330        | 650       | 90           | 400        | 800       | 120          | 500        | 1000      | 130          | 650        | 1300      | 150          | 750        | 1500      | 200          | 1000       | 2000      |
| 74           | 82         | 74        | 82           | 82         | 76        | 82           | 82         | 76        | 82           | 82         | 74        | 80           | 80         | 76        | 82           | 82         | 76        |
| 67           | 67         | 60        | 71           | 71         | 63        | 68           | 68         | 60        | 71           | 71         | 58        | 71           | 71         | 63        | 68           | 68         | 60        |
| 71           | 71         | 65        | 73           | 73         | 65        | 72           | 72         | 62        | 75           | 75         | 59        | 73           | 73         | 65        | 72           | 72         | 62        |
| 41           |            |           | 42           |            |           | 43           |            |           | 43           |            |           | 50           |            |           | 51,5         |            |           |
| Yes          |            |           | Yes          |            |           | Yes          |            |           | Yes          |            |           | Yes          |            |           | Yes          |            |           |
| 10           | 40         | 100       | 30           | 50         | 140       | 30           | 70         | 140       | 30           | 70         | 135       | 10           | 30         | 95        | 10           | 45         | 115       |
| Standard     |            |           | Standard     |            |           | Standard     |            |           | Standard     |            |           | Standard     |            |           | Standard     |            |           |
| Standard     |            |           | Standard     |            |           | Standard     |            |           | Standard     |            |           | Standard     |            |           | Standard     |            |           |
| Option       |            |           | Option       |            |           | Option       |            |           | Option       |            |           | Option       |            |           | Option       |            |           |
| 0,16         |            |           | 0,192        |            |           | 0,312        |            |           | 0,365        |            |           | 0,46         |            |           | 0,61         |            |           |
| 1,18         |            |           | 1,38         |            |           | 2,11         |            |           | 2,58         |            |           | 4,6          |            |           | 4,9          |            |           |
| 388          |            |           | 388          |            |           | 388          |            |           | 388          |            |           | 785          |            |           | 785          |            |           |
| 884          |            |           | 1134         |            |           | 1216         |            |           | 1216         |            |           | 884          |            |           | 1134         |            |           |
| 1186         |            |           | 1186         |            |           | 1199         |            |           | 1199         |            |           | 1486         |            |           | 1486         |            |           |
| 62           |            |           | 72           |            |           | 81           |            |           | 81           |            |           | 114          |            |           | 162          |            |           |
| 4 x Ø242     |            |           | 4 x Ø242     |            |           | 4 x Ø242     |            |           | 4 x Ø242     |            |           | 2x 280/650   |            |           | 2x 280/650   |            |           |
| 2x 1.5       |            |           | 2x 1.5       |            |           | 2x 1.5       |            |           | 2x 1.5       |            |           | 2x 1.5       |            |           | 2x 1.5       |            |           |
| 2x 0.5       |            |           | 2x 0.5       |            |           | 2x 0.5       |            |           | 2x 0.5       |            |           | 2x 0.5       |            |           | 2x 0.5       |            |           |

# ERV ACCESSORIES

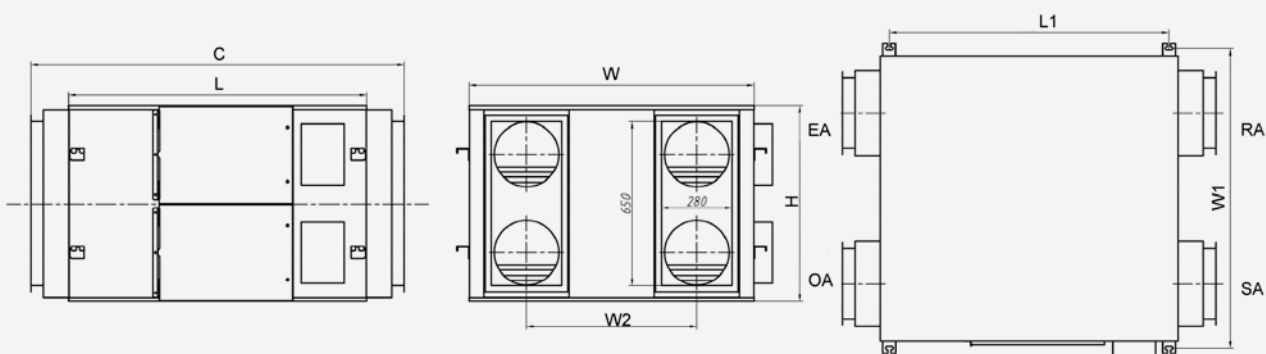
| Model                    | Description                                             | Applicable model            | Remarks                                                           |
|--------------------------|---------------------------------------------------------|-----------------------------|-------------------------------------------------------------------|
| F5 class filter (EU5)    |                                                         |                             |                                                                   |
| NXFLT5.1                 | F5 class filters - optional equipment NXERV-.....V1     | NXERV-150V1                 | set consists of: 1 filter                                         |
| NXFLT5.2                 | F5 class filters - optional equipment NXERV-.....V1     | NXERV-250V1                 | set consists of: 1 filter                                         |
| NXFLT5.3                 | F5 class filters - optional equipment NXERV-.....V1     | NXERV-350V1                 | set consists of: 2 filters                                        |
| NXFLT5.4                 | F5 class filters - optional equipment NXERV-.....V1     | NXERV-500V1                 | set consists of: 2 filters                                        |
| NXFLT5.5                 | F5 class filters - optional equipment NXERV-.....V1     | NXERV-650V1; NXERV-1500V1;  | set consists of: NXERV-650V1: 2 filters ; NXERV-1500V1: 4 filters |
| NXFLT5.6                 | F5 class filters - optional equipment NXERV-.....V1     | NXERV-800V1; NXERV-2000V1;  | set consists of: NXERV-800V1: 2 filter ; NXERV-2000V1: 4 filters  |
| NXFLT5.7                 | F5 class filters - optional equipment NXERV-.....V1     | NXERV-1000V1; NXERV-1300V1; | set consists of: 2 filters                                        |
| F6 class filter (EU6)    |                                                         |                             |                                                                   |
| NXFLT6.1                 | F6 class filters - optional equipment NXERV-.....V1     | NXERV-150V1                 | set consists of: 1 filter                                         |
| NXFLT6.2                 | F6 class filters - optional equipment NXERV-.....V1     | NXERV-250V1                 | set consists of: 1 filter                                         |
| NXFLT6.3                 | F6 class filters - optional equipment NXERV-.....V1     | NXERV-350V1                 | set consists of: 2 filters                                        |
| NXFLT6.4                 | F6 class filters - optional equipment NXERV-.....V1     | NXERV-500V1                 | set consists of: 2 filters                                        |
| NXFLT6.5                 | F6 class filters - optional equipment NXERV-.....V1     | NXERV-650V1; NXERV-1500V1;  | set consists of: NXERV-650V1: 2 filters ; NXERV-1500V1: 4 filters |
| NXFLT6.6                 | F6 class filters - optional equipment NXERV-.....V1     | NXERV-800V1; NXERV-2000V1;  | set consists of: NXERV-800V1: 2 filter ; NXERV-2000V1: 4 filters  |
| NXFLT6.7                 | F6 class filters - optional equipment NXERV-.....V1     | NXERV-1000V1; NXERV-1300V1; | set consists of: 2 filters                                        |
| F7 class filter (EU7)    |                                                         |                             |                                                                   |
| NXFLT7.1                 | F7 class filters - optional equipment NXERV-.....V1     | NXERV-150V1                 | set consists of: 1 filter                                         |
| NXFLT7.2                 | F7 class filters - optional equipment NXERV-.....V1     | NXERV-250V1                 | set consists of: 1 filter                                         |
| NXFLT7.3                 | F7 class filters - optional equipment NXERV-.....V1     | NXERV-350V1                 | set consists of: 2 filters                                        |
| NXFLT7.4                 | F7 class filters - optional equipment NXERV-.....V1     | NXERV-500V1                 | set consists of: 2 filters                                        |
| NXFLT7.5                 | F7 class filters - optional equipment NXERV-.....V1     | NXERV-650V1; NXERV-1500V1;  | set consists of: NXERV-650V1: 2 filters ; NXERV-1500V1: 4 filters |
| NXFLT7.6                 | F7 class filters - optional equipment NXERV-.....V1     | NXERV-800V1; NXERV-2000V1;  | set consists of: NXERV-800V1: 2 filter ; NXERV-2000V1: 4 filters  |
| NXFLT7.7                 | F7 class filters - optional equipment NXERV-.....V1     | NXERV-1000V1; NXERV-1300V1; | set consists of: 2 filters                                        |
| F9 class filter (EU9)    |                                                         |                             |                                                                   |
| NXFLT9.1                 | F9 class filters - optional equipment NXERV-.....V1     | NXERV-150V1                 | set consists of: 1 filter                                         |
| NXFLT9.2                 | F9 class filters - optional equipment NXERV-.....V1     | NXERV-250V1                 | set consists of: 1 filter                                         |
| NXFLT9.3                 | F9 class filters - optional equipment NXERV-.....V1     | NXERV-350V1                 | set consists of: 2 filters                                        |
| NXFLT9.4                 | F9 class filters - optional equipment NXERV-.....V1     | NXERV-500V1                 | set consists of: 2 filters                                        |
| NXFLT9.5                 | F9 class filters - optional equipment NXERV-.....V1     | NXERV-650V1; NXERV-1500V1;  | set consists of: NXERV-650V1: 2 filters ; NXERV-1500V1: 4 filters |
| NXFLT9.6                 | F9 class filters - optional equipment NXERV-.....V1     | NXERV-800V1; NXERV-2000V1;  | set consists of: NXERV-800V1: 2 filter ; NXERV-2000V1: 4 filters  |
| NXFLT9.7                 | F9 class filters - optional equipment NXERV-.....V1     | NXERV-1000V1; NXERV-1300V1; | set consists of: 2 filters                                        |
| Control                  |                                                         |                             |                                                                   |
| NXERV_ST1                | Wall-mounted controller with weekly timer               | NXERV (all models)          | standard equipment                                                |
| NXERV_ST2                | Wall-mounted touch display controller with weekly timer | NXERV (all models)          | optional equipment                                                |
| Additionally accessories |                                                         |                             |                                                                   |
| NXERV_HMD                | Humidity sensor                                         | NXERV (all models)          | Compatible with advanced touch controller                         |
| NXERV_CO2                | CO <sub>2</sub> sensor                                  | NXERV (all models)          | Compatible with standard and advanced touch controller            |
| Electric heater          |                                                         |                             |                                                                   |
|                          | Electric pre-heater with capacity of 1.0 kW             | NXERV-150V1                 | on request                                                        |
|                          | Electric pre-heater with capacity of 1.6 kW             | NXERV-250V1                 | on request                                                        |
|                          | Electric pre-heater with capacity of 1.0 kW             | NXERV-350V1                 | on request                                                        |
|                          | Electric pre-heater with capacity of 2.0 kW             | NXERV-500V1                 | on request                                                        |
|                          | Electric pre-heater with capacity of 3.0 kW             | NXERV-650V1; NXERV-800V1;   | on request                                                        |
|                          | Electric pre-heater with capacity of 3.6 kW             | NXERV-1000V1                | on request                                                        |
|                          | Electric pre-heater with capacity of 6.0 kW             | NXERV-1500V1                | on request                                                        |
|                          | Electric pre-heater with capacity of 6.0 kW             | NXERV-2000V1                | on request                                                        |

### UNIT DIMENSIONS [mm]



| Model        | A    | B    | C   | E    | F    | G  | I   | K   | M   | N   |
|--------------|------|------|-----|------|------|----|-----|-----|-----|-----|
| NXERV-150V1  | 580  | 736  | 100 | 795  | 510  | 19 | 290 | 20  | 264 | 144 |
| NXERV-250V1  | 599  | 814  | 100 | 675  | 657  | 19 | 315 | 111 | 270 | 144 |
| NXERV-350V1  | 804  | 814  | 100 | 675  | 862  | 19 | 480 | 111 | 270 | 144 |
| NXERV-550V1  | 904  | 894  | 107 | 754  | 960  | 19 | 500 | 111 | 270 | 194 |
| NXERV-650V1  | 884  | 1186 | 85  | 1115 | 940  | 19 | 428 | 170 | 388 | 242 |
| NXERV-800V1  | 1134 | 1186 | 85  | 1115 | 1190 | 19 | 678 | 170 | 388 | 242 |
| NXERV-1000V1 | 1216 | 1199 | 85  | 1130 | 1273 | 19 | 621 | 171 | 388 | 242 |
| NXERV-1300V1 | 1216 | 1199 | 85  | 1130 | 1273 | 19 | 621 | 171 | 388 | 242 |

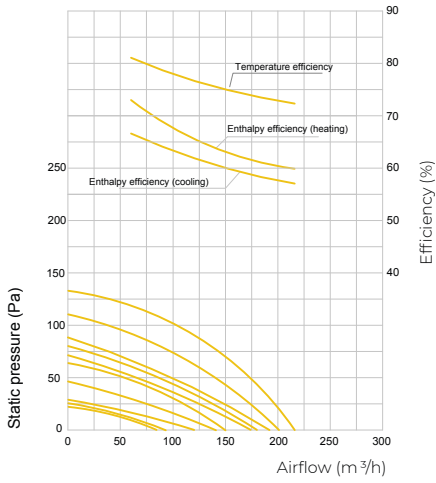
### UNIT DIMENSIONS [mm]



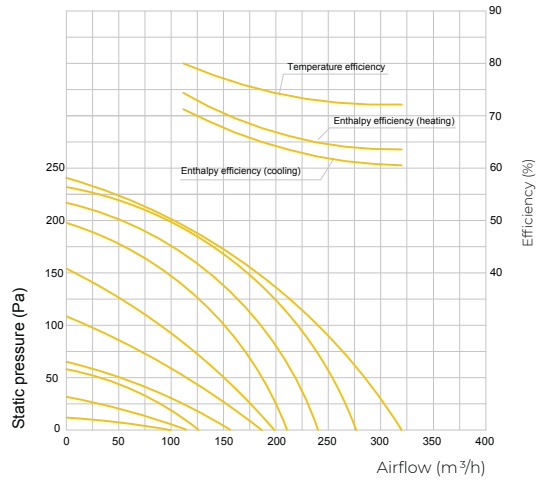
| Model        | C   | L   | L1  | W   | W1  | W2 | H   |
|--------------|-----|-----|-----|-----|-----|----|-----|
| NXERV-1500V1 | 580 | 736 | 100 | 795 | 510 | 19 | 290 |
| NXERV-2000V1 | 599 | 814 | 100 | 675 | 657 | 19 | 315 |

# CAPACITY CHARACTERISTICS

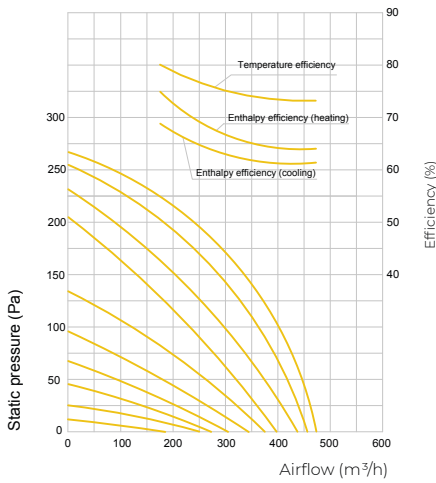
NXERV-150V1



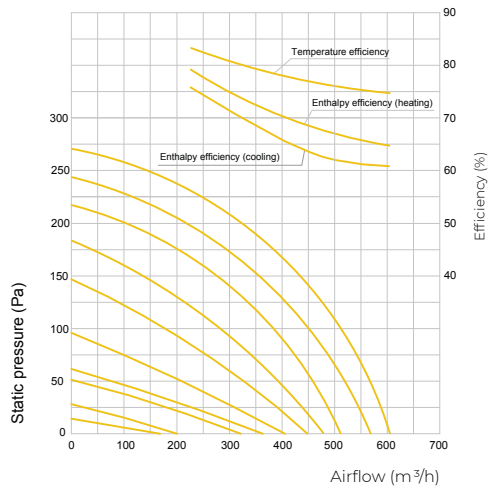
NXERV-250V1



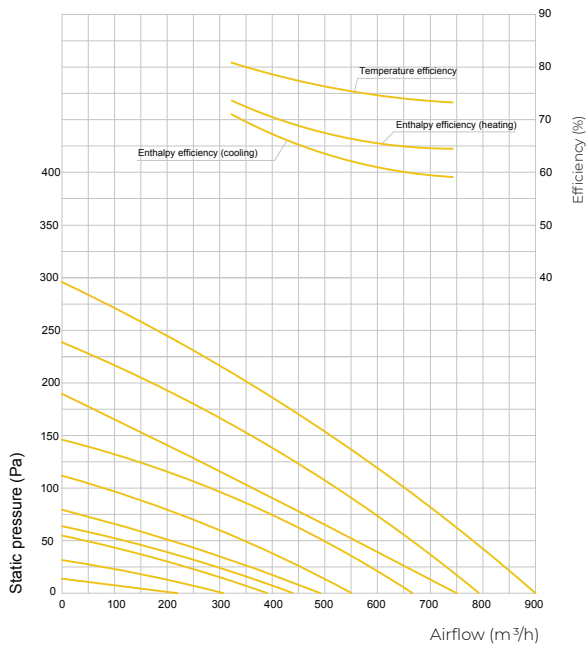
NXERV-350V1



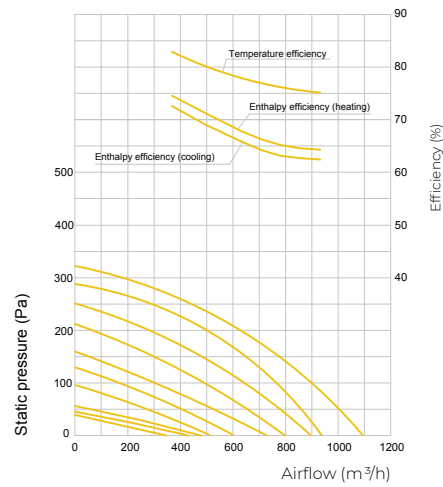
NXERV-500V1



NXERV-650V1

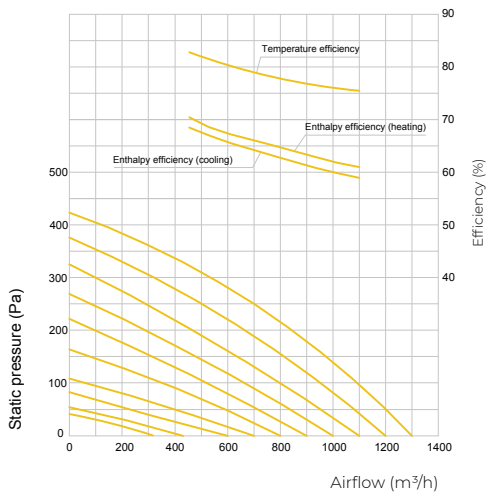


NXERV-800V1

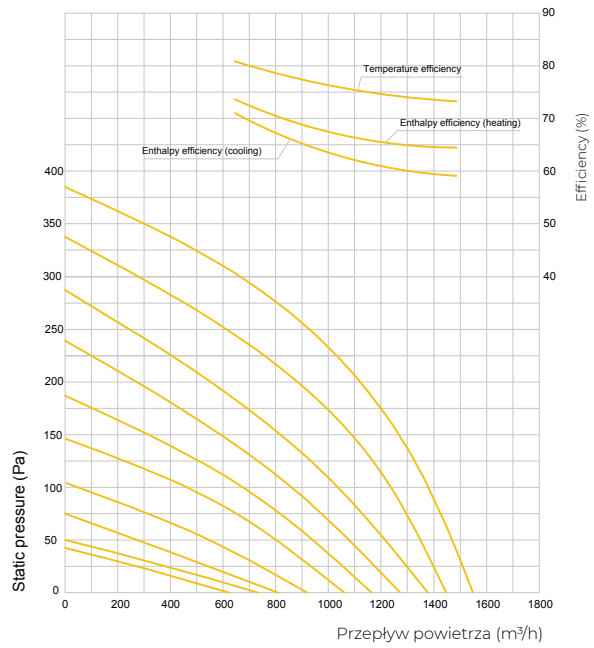


# CAPACITY CHARACTERISTICS

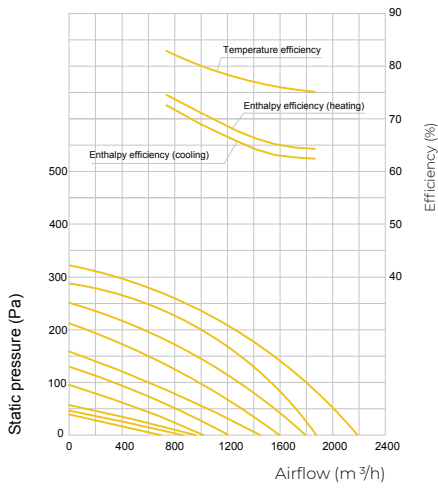
NXERV-1000V1



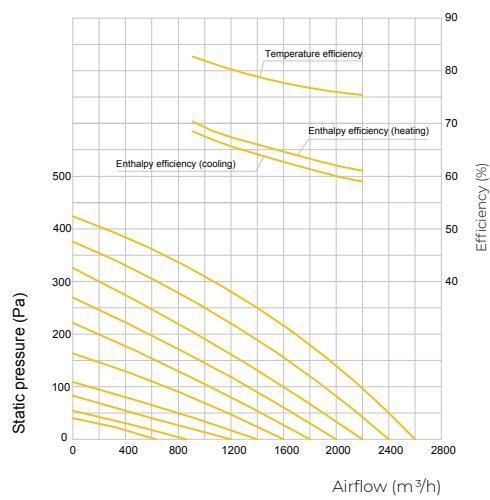
NXERV-1300V1



NXERV-1500V1



NXERV-2000V1



NOXA AIR

# WALL-MOUNTED WRV

NEW

ERP 2018  
COMPLIANCE



Precise  
HEPA  
filtration



Indoor  
and outdoor  
air filtration



Quiet  
operation



High temperature  
and enthalpy (humidity)  
recovery efficiency



DC fan



Remote  
control



Air  
quality  
monitoring



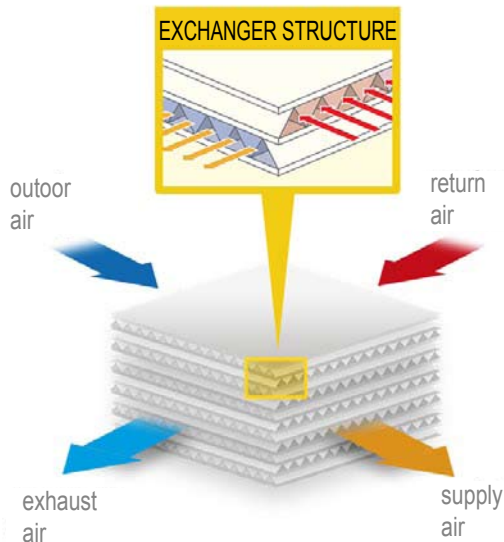
Indoor  
positive  
pressure



**WALL-MOUNTED RECUPERATOR** is a new solution from the NOXA product range that provides fresh air treated with detailed filtration with use of a compact size unit.

## 8 FAN SPEEDS

Each NOXA WRV unit features the latest, brushless BLDC motors equipped with 8 speeds, which precisely provide the adequate amount of air in any conditions.



## ADVANCED, ENTHALPY, CROSS-FLOW HEAT EXCHANGER

NOXA recuperators are equipped with high performance enthalpy heat exchanger that enables higher percentage values of temperature recovery, both in summer and winter. Cross-flow exchanger provides also moisture recovery between air supplied to the room and exhaust air, supporting thereby further increase of occupants comfort.

## MODE CHANGEOVER

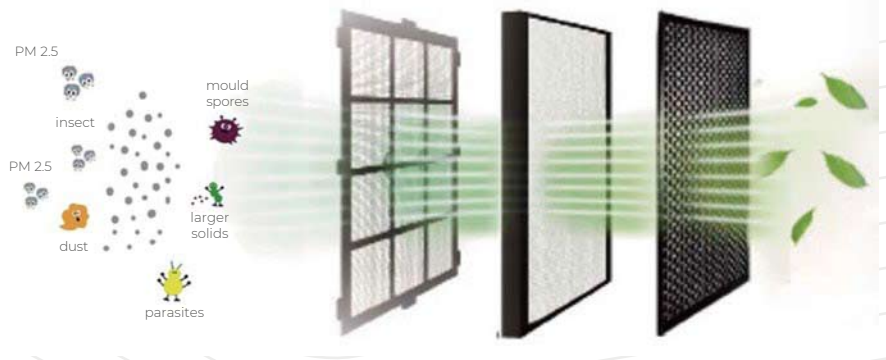
WRV unit features a choice of 7 different operation modes, which provide adaptation of recuperator operational parameters to the current room conditions, thereby making it possible to control the air quality at the most comprehensive level.

## CONTROL

The recuperator is controlled with use of a built-in touch controller, available on the front panel of the unit. The controller allows to display the current temperature, humidity as well as concentration of PM 2.5 particles in air. User can choose such settings as fan speed and operation mode. As a standard the controller is equipped with the Wi-Fi function. Furthermore, standard delivery of each recuperator includes a wireless remote controller that enables interaction with the unit from any place.

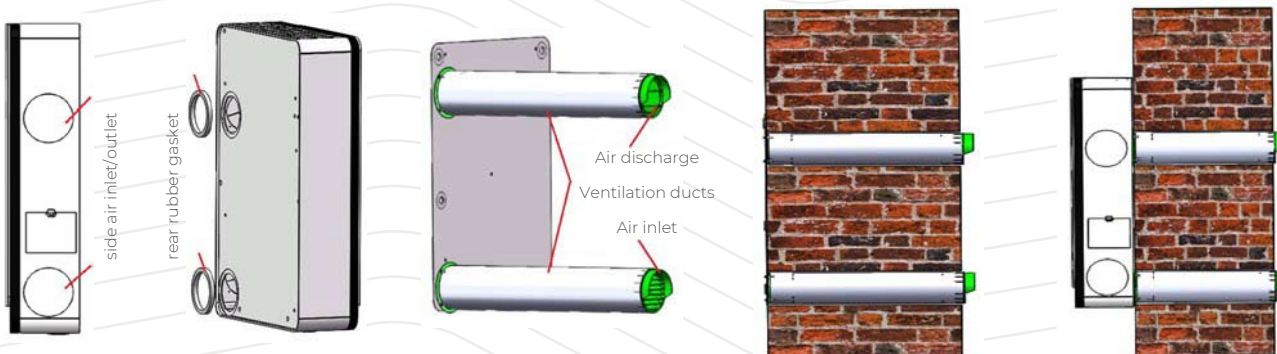
## ADVANCE FILTRATION SYSTEM

As a standard, NOXA WRV recuperators are equipped with the filtration system, based on a triple set of filters, starting from the pre-filter, through the active carbon filter and finally the HEPA filter. Application of the triple filtration system ensures the purest air, which shall be supplied to the user room.



## EASE OF INSTALLATION

The design of NOXA WRV recuperators enables quick and trouble-free installation. Following the installation manual, the unit can be placed in desired location in just few steps, and start operation in a short time. A duct supplying fresh air to the unit and removing outside filtered air, should be installed with inclination, in order to avoid possible flooding of exchanger.



## NOISE LEVEL

NOXA WRV recuperators are a low noise level units, emitting just 23 dB(A).

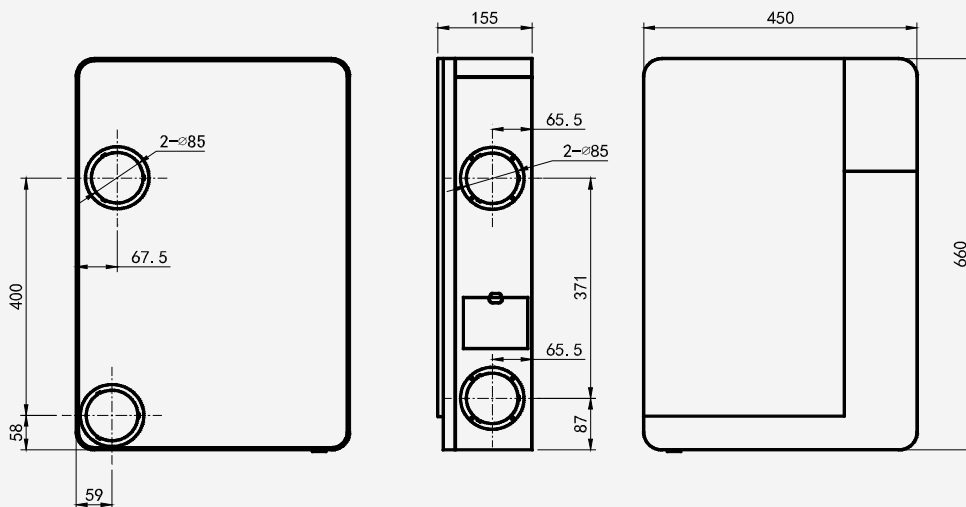
## TIME OF RESPONSE

WRV recuperators are equipped with three additional operation modes (PURE L; PURE M and PURE H), which enable “one-click” air purifying.

## TECHNICAL DATA

|                                                |                      |             |              |
|------------------------------------------------|----------------------|-------------|--------------|
| Model                                          |                      | NXWRV-150V1 |              |
| Power supply                                   |                      | Hz/-V       | 50/1/220-240 |
| Available fan speeds                           | Supply fan           | 8           |              |
|                                                | Exhaust fan          | 8           |              |
| Rated airflow                                  | m <sup>3</sup> /h    | 150         |              |
| Recovery efficiency: temperature               | %                    | 82          |              |
| Filtration efficiency                          | %                    | 99          |              |
| Sound pressure level in the heat exchange mode | dB(A)                | 23-36       |              |
| Filtering class                                | Pre-filter           | Standard    |              |
|                                                | Active carbon filter | Standard    |              |
|                                                | HEPA                 | Standard    |              |
| Maximum power input                            | kW                   | 0,035       |              |
| Overall dimensions                             | Height               | mm          | 660          |
|                                                | Width                | mm          | 450          |
|                                                | Depth                | mm          | 155          |
| Timer                                          |                      | Standard    |              |
| Standard room size                             | m <sup>2</sup>       | 20-45       |              |
| Weight                                         | kg                   | 10          |              |
| Connection flange diameter                     | mm                   | 4 x Ø100    |              |
| Power supply cable cross-section               | mm <sup>2</sup>      | 2x 1,5      |              |

## UNIT DIMENSIONS [mm]







# NOXA Heat

# NOXA PRO

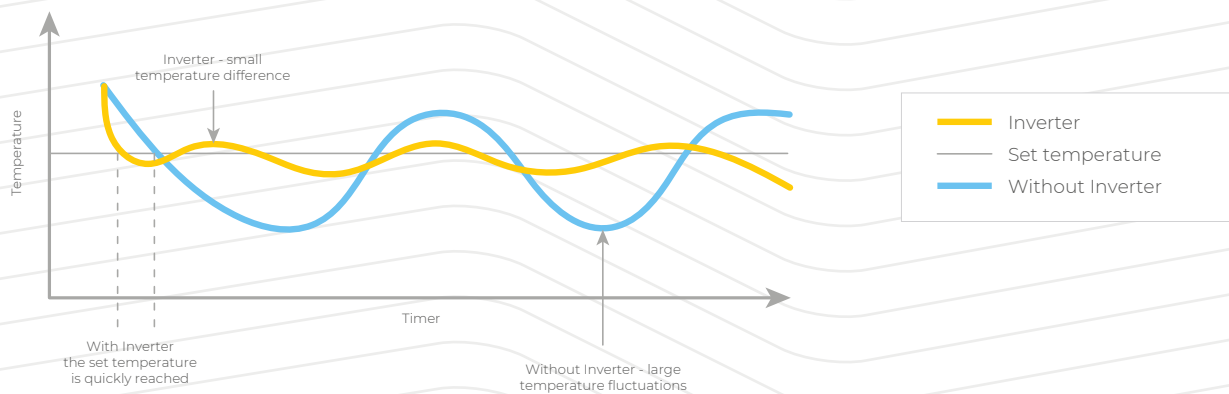


## INVERTER TECHNOLOGY

Increased rotation speed of the compressor motor through the operation frequency control, ensures higher starting power, brings temperature to the comfort zone much quicker than units without inverter. Cooling down or heating up the air-conditioned rooms is accomplished faster and with increased efficiency.

Compressor motor operation frequency and room temperature changes are monitored in order to designate the most efficient waveform for maintaining temperature in the comfort zone. This allows to eliminate large temperature fluctuations, typical for on-off systems and provides pleasant, comfortable room conditions.

## COMPARATIVE DIAGRAM OF INVERTER AND ON-OFF TECHNOLOGIES

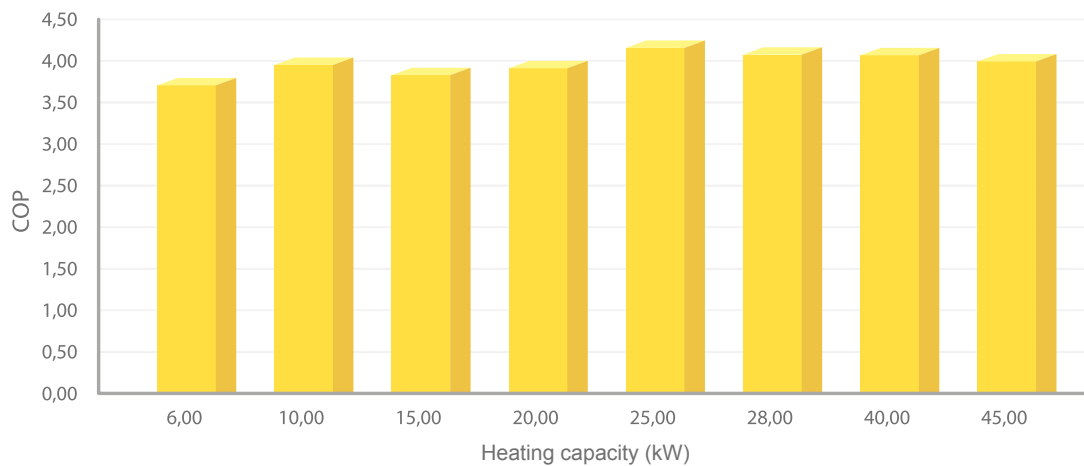


## HIGH ENERGY EFFICIENCY

Application of the latest inverter technologies enables automatic adjustment of the units load, according to the requirement. This allows to achieve high parameters using an energy efficiency classification, contributing to reduction of energy

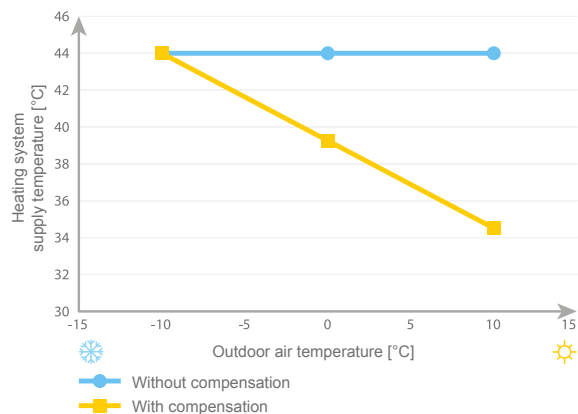
consumption in single family houses and many more objects. The energy efficiency of the heat pumps offered by NOXA is above 3.1 in A2/W35 point, and the SCOP coefficient is compliant with PN-EN 14825 standard and exceeds 3.4.

ENERGY EFFICIENCY COMPARISON



## TEMPERATURE COMPENSATION CURVE - HEATING CURVE

As the outdoor temperature increases, the building heat load gets lower and the heating system supply temperature can be lowered in accordance with the current building heat load. The building heating curve obtained this way indicates what is the heating water temperature that should supply the heating system at the specified outdoor temperature. This approach allows to save building maintenance costs, because together with decrease of the heating system supply temperature, the heat pump energy efficiency increases. The NOXA Pro heat pumps offers the possibility to control the heat pump with use of the heating curve, which can be individually defined by the user in the range



of outdoor temperatures from -20°C to 40°C. This helps reducing the building operating costs up to 15%.

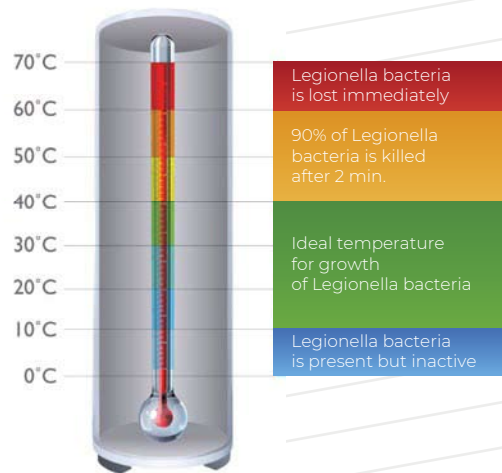
## HEAT PUMPS WITH CAPACITY ABOVE 45 KW IN SPLIT VERSION

NOXA company offers a range of heat pumps with heating capacity over 45 kW and energy efficiency above 4.26.



## ANTI-LEGIONELLA MODE

NOXA Pro heat pumps are equipped with a program that fights Legionella bacteria. Each week the unit reheats the DHW tank at temperature exceeding 70°C, thus protecting the domestic hot water against occurrence of the strain of Legionella bacteria.



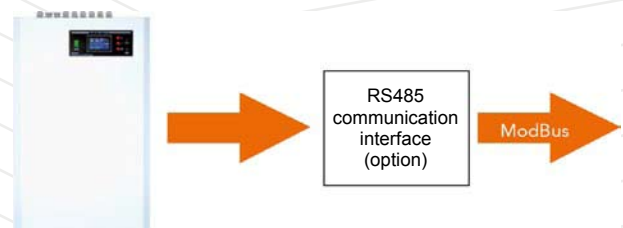
## STAINLESS STEEL HEAT EXCHANGER

Stainless steel exchanger in ASI 316 corrosion resistance class and ASI 316 L solder resistance class allows the heat pump to operate in aggressive environment, that is with use of glycol solution or when heating the chlorinated water in swimming pools.



## BMS COMMUNICATION

Heat pumps can be connected to the BMS building central control system through the ModBus protocol. Additional information necessary during order placement.



## POLISH INTERFACE

NOXA Pro heat pump is equipped with a controller that supports Polish language. Besides basic functions like: building heating system control, domestic hot water heating and

swimming pool heating, we are able to program the automatic unit operation and the building heating curve.



## HEATING IN THE EQUITHERM MODE

The NOXA Pro heat pumps are equipped with an automatic operation in the equitherm mode. It is up to user to decide which water supply temperature shall correspond to the specific ambient temperature. The available range of outlet water temperature is 20-60 °C.

| Ustawienia Ogrzewania |       |   |      |   |
|-----------------------|-------|---|------|---|
| COFNIJ                | +20 C | - | 25.0 | + |
| TRYB. EKWITERMALNY    | +10 C | - | 29.0 | + |
| TRYB. BOOST 5 MIN     | 0 C   | - | 34.0 | + |
| ZEWN. OFF             | -10 C | - | 44.0 | + |
| TERMOSTAT             | -20 C | - | 48.0 | + |
| ZAPISZ/WYJDŹ          |       |   |      |   |

## HEATING IN THE SWIMMING POOL MODE

It is impossible to use the swimming pool in the mid-seasons because of too low water temperature. Using the NOXA Pro heat pump allows to heat up the swimming pool water in the cost efficient manner and make use of the pool even in colder days. Special heat exchanger made of stainless steel, ensures operation even in case of chemically treated water. Temperature can be adjusted in the range of: 20~60°C - and additionally it is possible to shorten the heating time by

| Ogrzewanie Basenowe |            |  |
|---------------------|------------|--|
| COFNIJ              |            |  |
| ZAŁĄCZ/WYŁĄCZ       |            |  |
| TRYB. BOOST OFF     |            |  |
| ZAPISZ/WYJDŹ        |            |  |
|                     | TEMP. WYJ. |  |
|                     | 35.0       |  |

using the bivalent source (available capacity range: 0-2-4-6 kW).

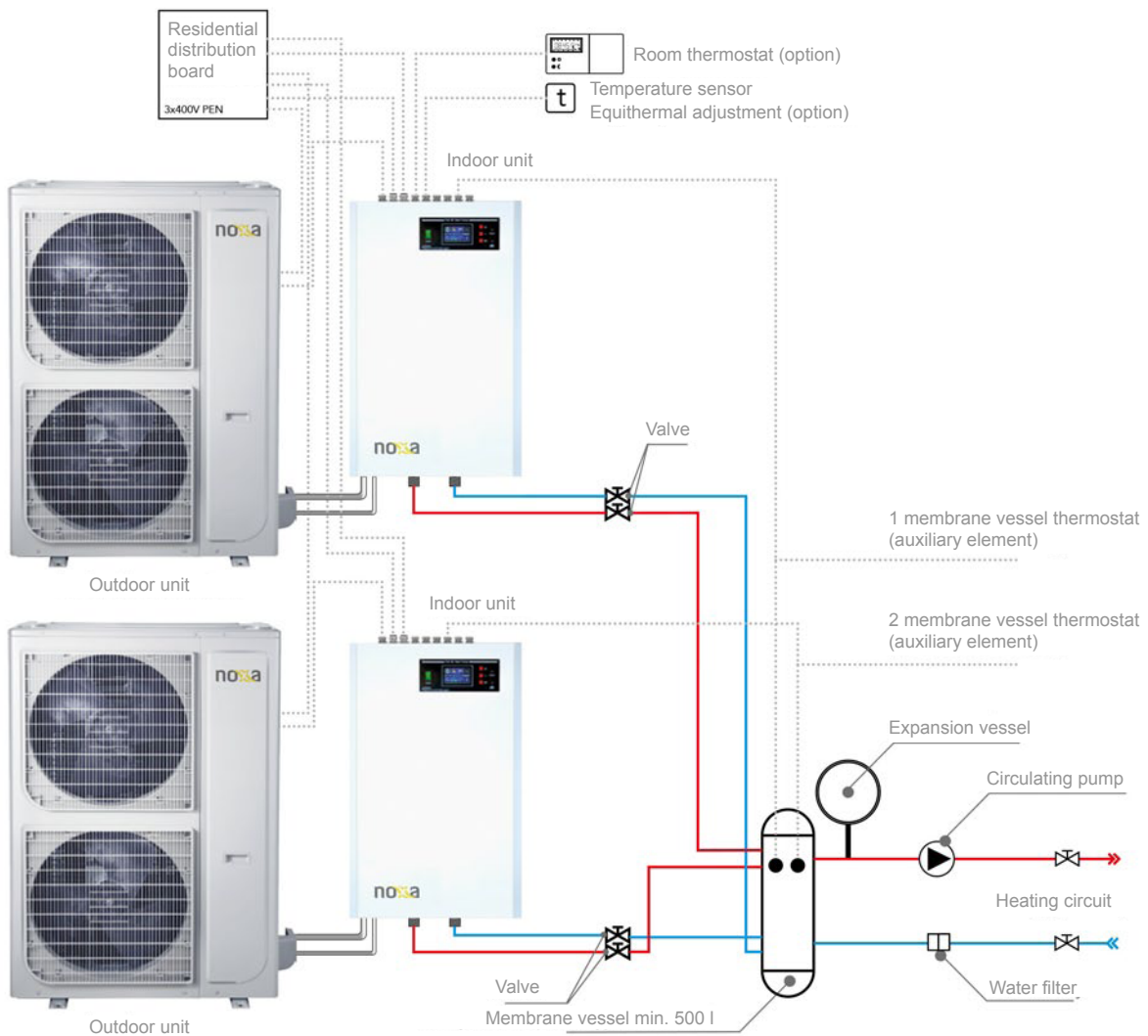
## CASCADE OPERATION

The NOXA Pro heat pumps can be equipped with a possibility to connect their units in a cascade. This functionality enables to connect 2 pumps in a single heating system. If you wish to use the cascade functionality and connect more heat pumps, in order to create a more extensive

heating system with higher capacity, please contact our Technical and Sales Consultant.

### DIAGRAM OF THE CASCADE HEAT PUMP CONNECTIONS

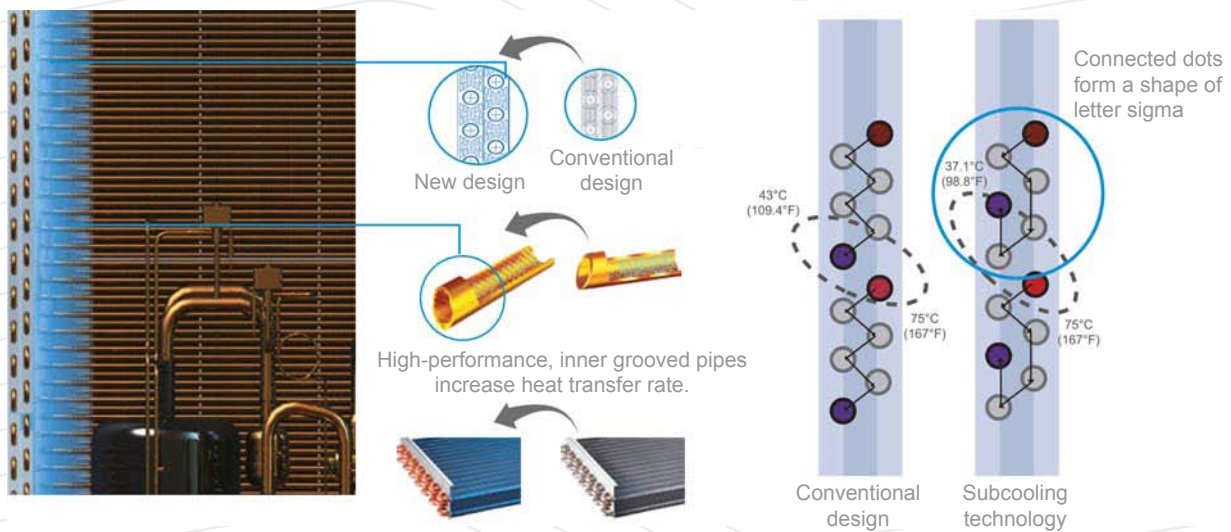
SCHEMATIC DIAGRAM - THE REAL STATE MAY DIFFER DEPENDING ON THE METHOD, PLACE AND SIZE OF INSTALLATION.



## HIGH PERFORMANCE, SIGMA TYPE HEAT EXCHANGER WITH HYDROPHILIC COATING

The exchanger fins are factory covered with hydrophilic layer, which protects the exchanger against corrosion and prevents deposition of drops of water on its surface. This increases the operation periods after the exchanger is being

defrosted and expands the unit's lifespan, while maintaining its capacity and efficiency. Larger heat exchange surface, as a result of pipes ribbed from the refrigerant side, ensures high energy efficiency.



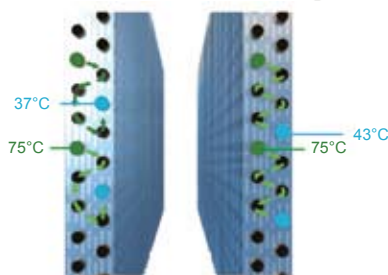
The Sigma technology features high heat exchange efficiency. Newly designed exchangers and fins with the hydrophilic layer, ensures

high-performance heat exchange in any operation mode of the unit.

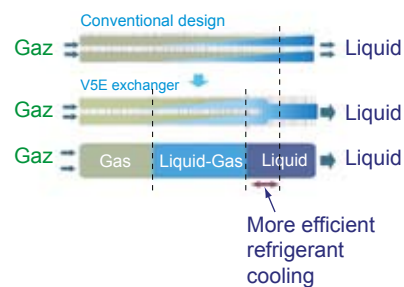
### EXAMPLE

An exchanger with the traditional refrigerant flow enables to cool down the medium up to 43°C at the ambient temperature of +35°C. The Sigma technology, in the same conditions, cools

the refrigerant down to 37,1°C. This way, the condenser fan consumes less electric energy, and the refrigerant becomes subcooled.



δ type exchanger



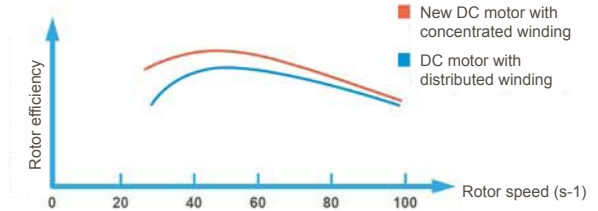
Improved heat exchange efficiency and savings on running costs, was obtained by changing the location of exchanger fins. Enlarged heat

exchange surface and decreased airflow resistance, resulted in more efficient unit operation.

## HIGH PERFORMANCE DC INVERTER COMPRESSOR

NOXA units achieve the best energy efficiency class on the market: EER for cooling and COP for heating, by using a DC brushless reluctance compressor motor, DC fan motor and an exchanger with increased capacity. These advan-

tages allow up to 25% saving of energy consumption. Strong magnets ensure high torque and capacity, reflecting in 70% reduction of the unit size.



## AUTOMATIC SNOW BLOWING OFF FUNCTION

During winter snow can accumulate on the outdoor unit, resulting in reduced system efficiency. The function of automatic snow blowing off is used to remove the accumulated snow-

fall, thus maintaining the highest system efficiency - even in regions with heavy snowfalls.



Noxa PRO

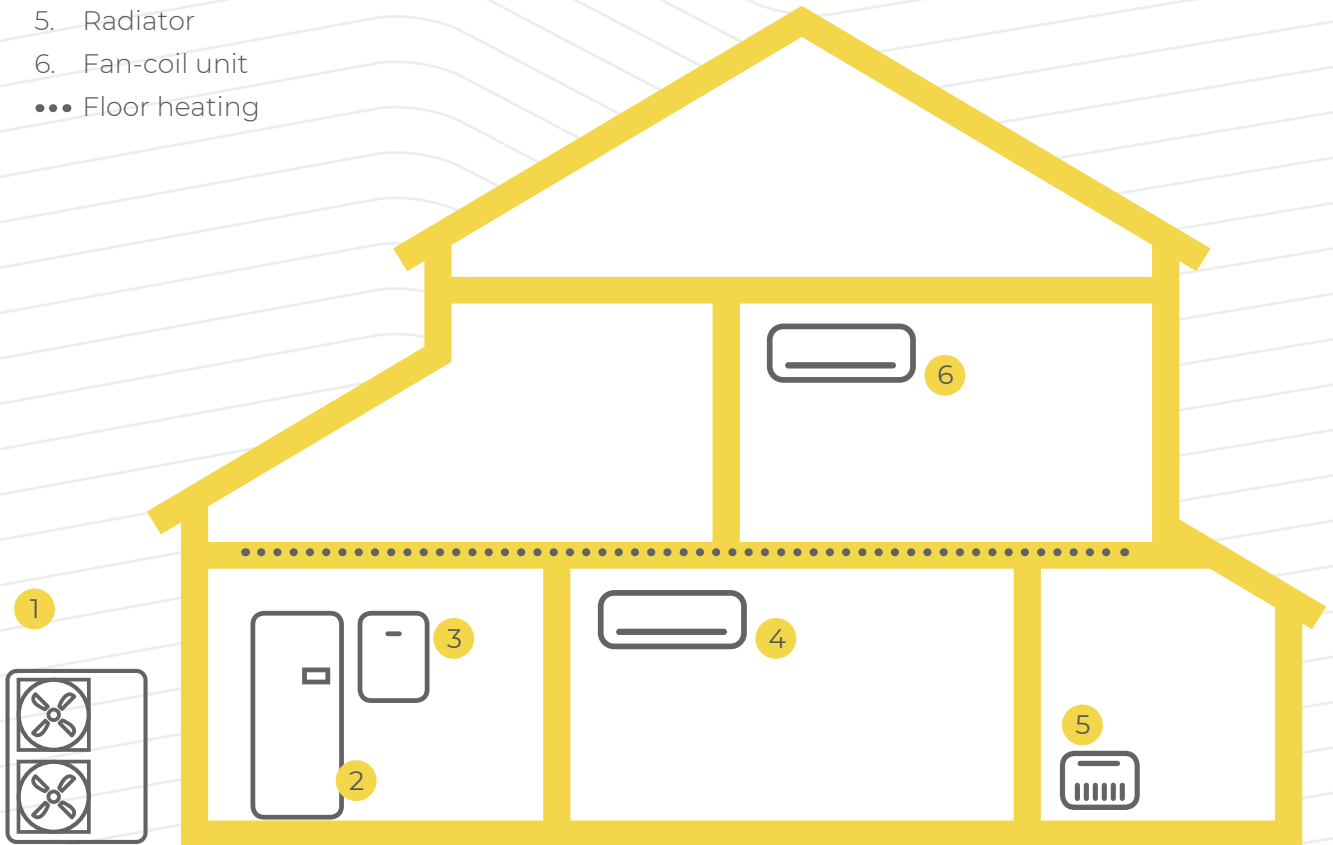


Another brand



## INSTALLATION EXAMPLE

1. Outdoor unit
  2. Tank
  3. Indoor unit
  4. Fan-coil unit
  5. Radiator
  6. Fan-coil unit
- Floor heating



## TECHNICAL DATA



| Model                                |              |          | NXPRO-V800-V1 | NXPRO-V1100-V1 | NXPRO-V1400-V1 |
|--------------------------------------|--------------|----------|---------------|----------------|----------------|
| Heating capacity A7/W35*             |              | kW       | 7,1           | 14,5           | 17,5           |
| Power input A7/W35*                  |              | kW       | 1,92          | 3,54           | 4,60           |
| COP for A7/W35*                      |              | -        | 3,70          | 4,10           | 3,80           |
| Heating capacity A2/W35*             |              | kW       | 5,3           | 10,8           | 14,5           |
| Power input A2/W35*                  |              | kW       | 1,61          | 3,27           | 4,51           |
| COP for A2/W35*                      |              | -        | 3,30          | 3,30           | 3,22           |
| SCOP                                 |              | -        | 3,65          | 3,86           | 3,60           |
| Energy efficiency class              |              | -        | A++           | A+++           | A++            |
| Cooling capacity A35/W10             |              | kW       | 4,2           | 7,9            | 13,4           |
| Electrical power absorption A35/W10  |              | kW       | 1,29          | 2,45           | 4              |
| EER A35/W10                          |              | -        | 3,26          | 3,22           | 3,35           |
| Indoor unit                          |              |          | H800Vi        | HT100Vi        | HT1400Vi       |
| Power supply                         |              | V~/Hz    | 400/3/50      | 400/3/50       | 400/3/50       |
| Electrical protection                |              | A        | 25            | 20             | 20             |
| Dimensions                           | height       | mm       | 805           | 805            | 805            |
|                                      | depth        | mm       | 500           | 500            | 500            |
|                                      | width        | mm       | 168           | 168            | 168            |
| Weight                               |              | kg       | 51            | 52             | 52             |
| Sound pressure level                 |              | dB(A)    | 23            | 25             | 25             |
| Supply water temperature range       | heating      | °C       | 20 ~ 60       | 20 ~ 60        | 20 ~ 60        |
|                                      | cooling      | °C       | 10 ~ 20       | 7 ~ 20         | 7 ~ 20         |
| Operating temperature range for DHW  |              | °C       | -             | -              | -              |
| Hydraulic connections (inlet/outlet) |              | cal (mm) | 1 (DN 25)     | 1 (DN 25)      | 1 (DN 25)      |
| Electric heaters power               |              | kW       | 6             | 6              | 6              |
| Electric heaters operating range     |              | kW       | 2/4/6         | 2/4/6          | 2/4/6          |
| Heat exchanger                       | manufacturer | -        | Alfa Laval    | Alfa Laval     | Alfa Laval     |
|                                      | type         | -        | plate         | plate          | plate          |
| Outdoor unit                         |              |          | NXOL-70B-11B  | NXOL-100B-31B  | NXOL-140B-31B  |
| Power supply                         |              | V~/Hz    | 230/1/50      | 400/3/50       | 400/3/50       |
| Electrical protection                |              | A        | 16            | 20             | 20             |
| Dimensions                           | height       | mm       | 702           | 810            | 1333           |
|                                      | depth        | mm       | 363           | 410            | 415            |
|                                      | width        | mm       | 845           | 946            | 952            |
| Weight                               |              | kg       | 66,8          | 81,5           | 106,7          |
| Sound pressure level                 |              | dB(A)    | 62            | 64             | 66             |
| Compressor                           | type         | -        | rotary        | rotary         | rotary         |
|                                      | technology   | -        | inverter      | inverter       | inverter       |
| Recommended temperature range        | heating      | °C       | -15 ~ 24      | -15 ~ 24       | -15 ~ 24       |
|                                      | cooling      | °C       | -15 ~ 50      | -15 ~ 50       | -15 ~ 50       |
| Refrigerant installation             | liquid/gas   | mm       | ø9.52/ø15.9   | ø9.52/ø15.4    | ø9.52/ø15.9    |
| Refrigerant                          | type         | -        | R32           | R32            | R32            |
|                                      | amount       | kg       | 1,50          | 2,4            | 2,8            |

Parameters are based on the following conditions:  
A7/W35: user side water temperature 30/35 °C, outdoor air temperature 7 °C,  
A2/W35: user side water temperature 30/35 °C, outdoor air temperature 2 °C,  
Sound pressure level measured at a distance of 1 m (according to PN EN 11203)

## TECHNICAL DATA



| Model                                |              |          | NXPRO-VI500-VI | NXPRO-VI600-VI | NXPRO-VI800-VI |
|--------------------------------------|--------------|----------|----------------|----------------|----------------|
| Heating capacity A7/W35*             |              | kW       | 21,0           | 28,0           | 32,0           |
| Power input A7/W35*                  |              | kW       | 5,38           | 6,83           | 8,00           |
| COP for A7/W35*                      |              | -        | 3,90           | 4,11           | 4,00           |
| Heating capacity A2/W35*             |              | kW       | 17,8           | 25,0           | 25,5           |
| Power input A2/W35*                  |              | kW       | 5,74           | 8,06           | 9,19           |
| COP for A2/W35*                      |              | -        | 3,10           | 3,10           | 3,10           |
| SCOP                                 |              | -        | 3,58           | -              | -              |
| Energy efficiency class              |              | -        | A++            | -              | -              |
| Cooling capacity A35/W10             |              | kW       | 15,9           | 22,10          | 27,10          |
| Electrical power absorption A35/W10  |              | kW       | 4,76           | 6,25           | 7,68           |
| EER A35/W10                          |              | -        | 3,34           | 3,54           | 3,53           |
| Indoor unit                          |              |          | H1500Vi        | H1600Vi        | H1800Vi        |
| Power supply                         |              | V~/Hz    | 400/3/50       | 400/3/50       | 400/3/50       |
| Electrical protection                |              | A        | 25             | 25             | 32             |
| Dimensions                           | height       | mm       | 805            | 805            | 815            |
|                                      | depth        | mm       | 500            | 500            | 570            |
|                                      | width        | mm       | 168            | 168            | 210            |
| Weight                               |              | kg       | 54             | 55             | 65             |
| Sound pressure level                 |              | dB(A)    | 25             | 25             | 28             |
| Supply water temperature range       | heating      | °C       | 20 ~ 60        | 20 ~ 60        | 20 ~ 60        |
|                                      | cooling      | °C       | 7 ~ 20         | 7 ~ 20         | 7 ~ 20         |
| Operating temperature range for DHW  |              | °C       | -              | -20 ~ +24      | -20 ~ +24      |
| Hydraulic connections (inlet/outlet) |              | cal (mm) | 1 (DN 25)      | 1 (DN 25)      | 1 1/2 (DN 40)  |
| Electric heaters power               |              | kW       | 6              | 18             | 18             |
| Electric heaters operating range     |              | kW       | 2/4/6          | 6/12/18        | 6/12/18        |
| Heat exchanger                       | manufacturer | -        | Alfa Laval     | Alfa Laval     | Alfa Laval     |
|                                      | type         | -        | plate          | plate          | plate          |
| Outdoor unit                         |              |          | NXOL-160B-3IB  | NXOV-252A-3I5E | NXOV-280A-3I5E |
| Power supply                         |              | V~/Hz    | 400/3/50       | 400/3/50       | 400/3/50       |
| Electrical protection                |              | A        | 25             | 25             | 25             |
| Dimensions                           | height       | mm       | 1333           | 1635           | 1635           |
|                                      | depth        | mm       | 415            | 790            | 790            |
|                                      | width        | mm       | 952            | 990            | 990            |
| Weight                               |              | kg       | 111,3          | 219,0          | 219,0          |
| Sound pressure level                 |              | dB(A)    | 66             | 59             | 63             |
| Compressor                           | type         | -        | rotary         | scroll         | scroll         |
|                                      | technology   | -        | inverter       | inverter       | inverter       |
| Recommended temperature range        | heating      | °C       | -15 ~ 24       | -20 ~ 24       | -20 ~ 24       |
|                                      | cooling      | °C       | -15 ~ 50       | -5 ~ 48        | -5 ~ 48        |
| Refrigerant installation             | liquid/gas   | mm       | ø9.52/ø15.9    | ø12.7/ø25.4    | ø12.7/ø25.4    |
| Refrigerant                          | type         | -        | R32            | R410A          | R410A          |
|                                      | amount       | kg       | 2,95           | 9,00           | 9,00           |

Parameters are based on the following conditions:

A7/W35: user side water temperature 30/35°C, outdoor air temperature 7°C,

A2/W35: user side water temperature 30/35°C, outdoor air temperature 2°C,

Sound pressure level measured at a distance of 1 m (according to PN EN 11203)

## TECHNICAL DATA

| Model                                |              |          | NXPRO-V2100-V1 | NXPRO-V2200-V1 |
|--------------------------------------|--------------|----------|----------------|----------------|
| Heating capacity A7/W35*             |              | kW       | 44,0           | 49,0           |
| Power input A7/W35*                  |              | kW       | 11,00          | 12,56          |
| COP for A7/W35*                      |              | -        | 4,00           | 3,90           |
| Heating capacity A2/W35*             |              | kW       | 38,1           | 42,7           |
| Power input A2/W35*                  |              | kW       | 12,29          | 13,77          |
| COP for A2/W35*                      |              | -        | 3,10           | 3,10           |
| SCOP                                 |              | -        | -              | 3,86           |
| Energy efficiency class              |              | -        | -              | -              |
| Cooling capacity A35/W10             |              | kW       | 35,60          | 39,80          |
| Electrical power absorption A35/W10  |              | kW       | 13,39          | 11,74          |
| EER A35/W10                          |              | -        | 3,43           | 3,39           |
| Indoor unit                          |              |          | H2100Vi        | H2200Vi        |
| Power supply                         |              | V/~ /Hz  | 400/3/50       | 400/3/50       |
| Electrical protection                |              | A        | 40             | 50             |
| Dimensions                           | height       | mm       | 815            | 815            |
|                                      | depth        | mm       | 570            | 570            |
|                                      | width        | mm       | 210            | 210            |
| Weight                               |              | kg       | 67             | 67             |
| Sound pressure level                 |              | dB(A)    | 28             | 28             |
| Supply water temperature range       | heating      | °C       | 20 ~ 60        | 20 ~ 60        |
|                                      | cooling      | °C       | 7 ~ 20         | 7 ~ 20         |
| Operating temperature range for DHW  |              | °C       | -20 ~ +24      | -20 ~ +24      |
| Hydraulic connections (inlet/outlet) |              | cal (mm) | 1 1/2 (DN40)   | 1 1/2 (DN40)   |
| Electric heaters power               |              | kW       | 18             | 18             |
| Electric heaters operating range     |              | kW       | 6/12/18        | 6/12/18        |
| Heat exchanger                       | manufacturer | -        | Alfa Laval     | Alfa Laval     |
|                                      | type         | -        | plate          | plate          |
| Outdoor unit                         |              |          | NXOV-400A-315E | NXOV-450A-315E |
| Power supply                         |              | V/~ /Hz  | 400/3/50       | 400/3/50       |
| Electrical protection                |              | A        | 30             | 35             |
| Dimensions                           | height       | mm       | 1635           | 1635           |
|                                      | depth        | mm       | 790            | 790            |
|                                      | width        | mm       | 1340           | 1340           |
| Weight                               |              | kg       | 297,0          | 297,0          |
| Sound pressure level                 |              | dB(A)    | 66             | 66             |
| Compressor                           | type         | -        | scroll         | scroll         |
|                                      | technology   | -        | inverter       | inverter       |
| Recommended temperature range        | heating      | °C       | -20 ~ 24       | -20 ~ 24       |
|                                      | cooling      | °C       | -5 ~ 48        | -5 ~ 48        |
| Refrigerant installation             | ciecz/gaz    | mm       | ø15.9/ø31.8    | ø15.9/ø31.8    |
| Refrigerant                          | type         | -        | R410A          | R410A          |
|                                      | amount       | kg       | 13,00          | 13,00          |

Parameters are based on the following conditions:  
A7/W35: user side water temperature 30/35 °C, outdoor air temperature 7 °C,  
A2/W35: user side water temperature 30/35 °C, outdoor air temperature 2 °C,  
Sound pressure level measured at a distance of 1 m (according to PN EN 11203)

## ACCESSORIES

### Accessories

| Symbols     | Description                                                               |
|-------------|---------------------------------------------------------------------------|
| S-type 816  | Simple room thermostat                                                    |
| W-type 908  | Room thermostat with weekly timer                                         |
| SD-type 816 | Simple room thermostat with remote communication                          |
| KD-type 918 | Room thermostat with current temperature display and remote communication |
| WD-type 908 | Room thermostat with weekly timer and remote communication                |
| Evo System  | Heating systems controller                                                |
| NOXA M3+    | Heating circuits controller                                               |

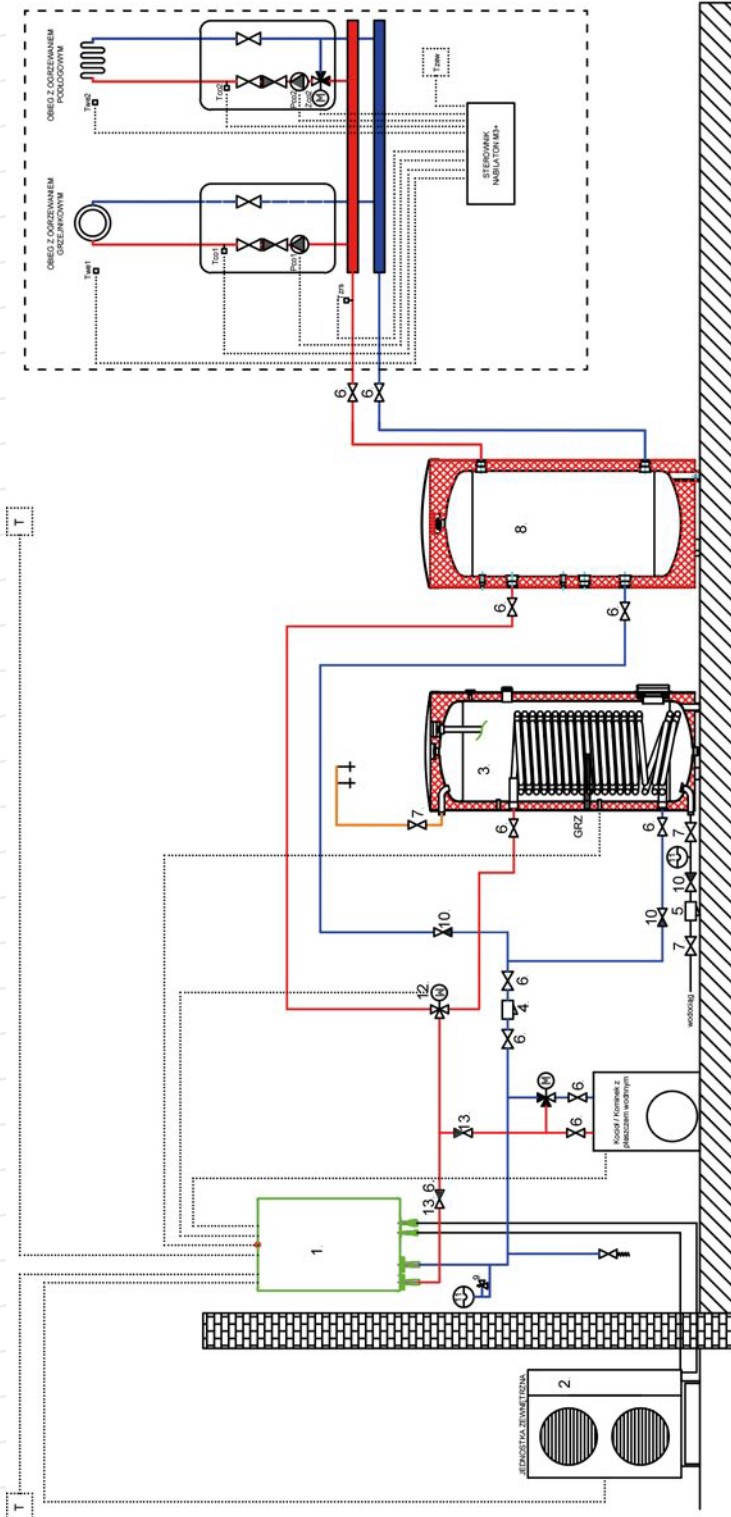
### Accessories

| Symbols      | Description          |
|--------------|----------------------|
| NAB-3W-F-25  | 3-way valve 1"       |
| NAB-3W-F-40  | 3-way valve 1 1/2"   |
| NAB-9310-230 | 3-way valve actuator |

### Accessories

| Symbols       | Description                                                |
|---------------|------------------------------------------------------------|
| Modbus RS-232 | Heat pump equipped with Modbus RS-232 communication module |
| Modbus RS-485 | Heat pump equipped with Modbus RS-485 communication module |

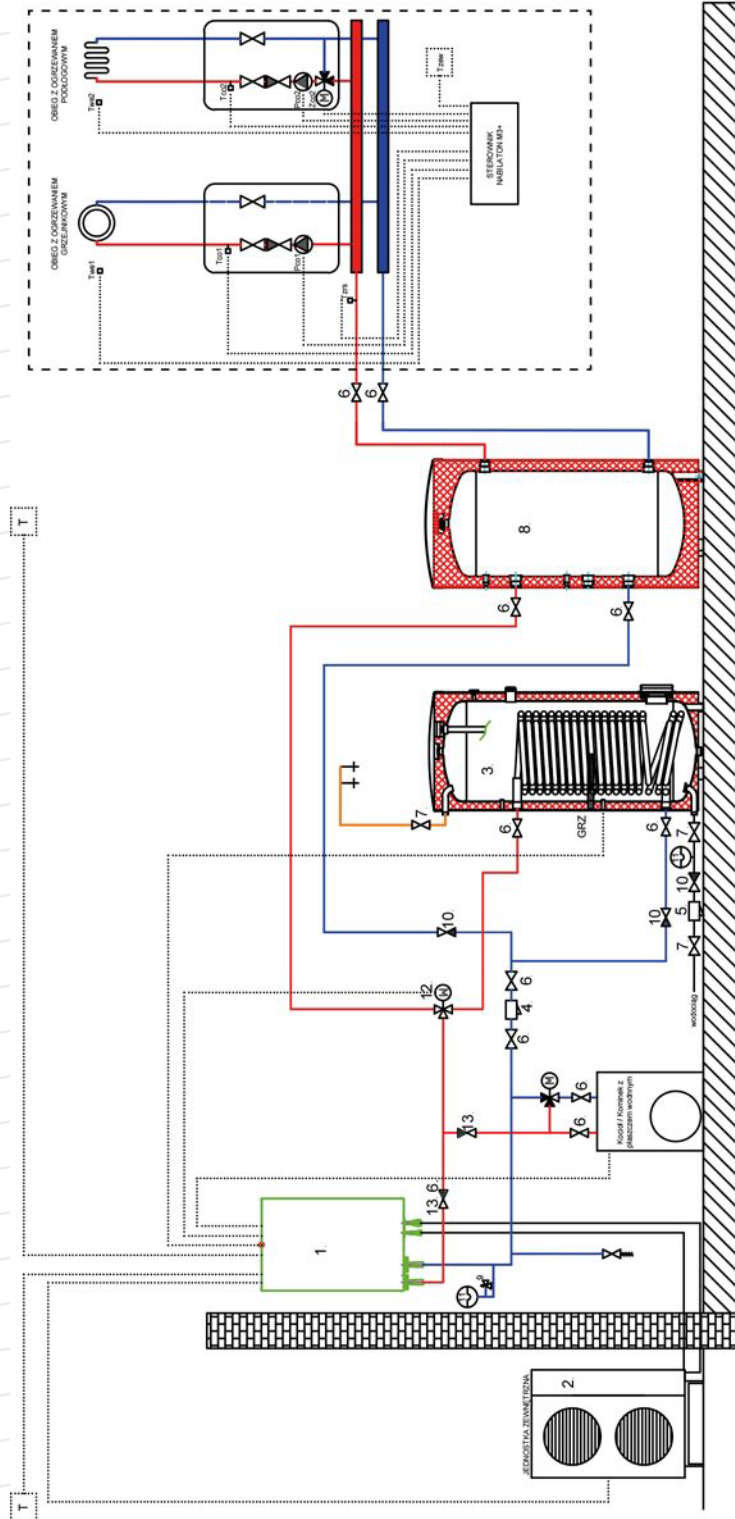
# BOILER ROOM DIAGRAM



| No. | Installation equipment    | Q-ty   | Heating power 6 kW | Heating power 10 kW | Heating power 15 kW | Heating power 20 kW | Heating power 25 kW | Heating power 28 kW      | Heating power 40 kW      | Heating power 45 kW      |
|-----|---------------------------|--------|--------------------|---------------------|---------------------|---------------------|---------------------|--------------------------|--------------------------|--------------------------|
| 1.  | Internal hydraulic module | 1 pc   | H800VI             | H1100VI             | HL400VI             | H1500VI             | H1600VI             | H1800VI                  | H2100VI                  | H2200VI                  |
| 2.  | Outdoor unit              | 1 pc   | NXOL-70B-1IB       | NXOL-100B-3IB       | NXOL-140B-3IB       | NXOL-160B-3IB       | NXOV-252A-3ISE      | NXOV-280A-3ISE           | NXOV-400A-3ISE           | NXOV-450A-3ISE           |
| 3.  | DHW VPB tank              | 1 pc   | VPB 300 R          | VPB 300 R           | VPB 300 R           | VPB 300 R           | VPB 300 R           | VPB 300 R                | VPB 300 R                | VPB 300 R                |
| 4.  | Mesh strainer, type Y     | 1 pc   | 3/4"               | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                     | 3/4"                     | 3/4"                     |
| 5.  | Mesh strainer, type Y     | 1 pc   | 3/4"               | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                     | 3/4"                     | 3/4"                     |
| 6.  | Shut-off valve            | 11 pcs | 1"                 | 1"                  | 1"                  | 1"                  | 1"                  | 1 1/2"                   | 1 1/2"                   | 1 1/2"                   |
| 7.  | Shut-off valve            | 3 pcs  | 3/4"               | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                     | 3/4"                     | 3/4"                     |
| 8.  | Buffer tank               | 1 pc   | select             | select              | select              | select              | select              | select                   | select                   | select                   |
| 9.  | Safety valve              | 1 pc   | select             | select              | select              | select              | select              | select                   | select                   | select                   |
| 10. | Check valve               | 3 pcs  | 3/4"               | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                     | 3/4"                     | 3/4"                     |
| 11. | Expansion vessel          | 2 pcs  | select             | select              | select              | select              | select              | select                   | select                   | select                   |
| 12. | 3-way valve               | 1 pc   | 1" - 1" - 1"       | 1" - 1" - 1"        | 1" - 1" - 1"        | 1" - 1" - 1"        | 1" - 1" - 1"        | 1 1/2" - 1 1/2" - 1 1/2" | 1 1/2" - 1 1/2" - 1 1/2" | 1 1/2" - 1 1/2" - 1 1/2" |
| 13. | Check valve               | 2 pcs  | 1"                 | 1"                  | 1"                  | 1"                  | 1"                  | 1"                       | 1"                       | 1"                       |

In order to obtain some of the functions, unit shall be equipped with additional options. Please contact the Technical-Sales Consultant for the selection of required components.

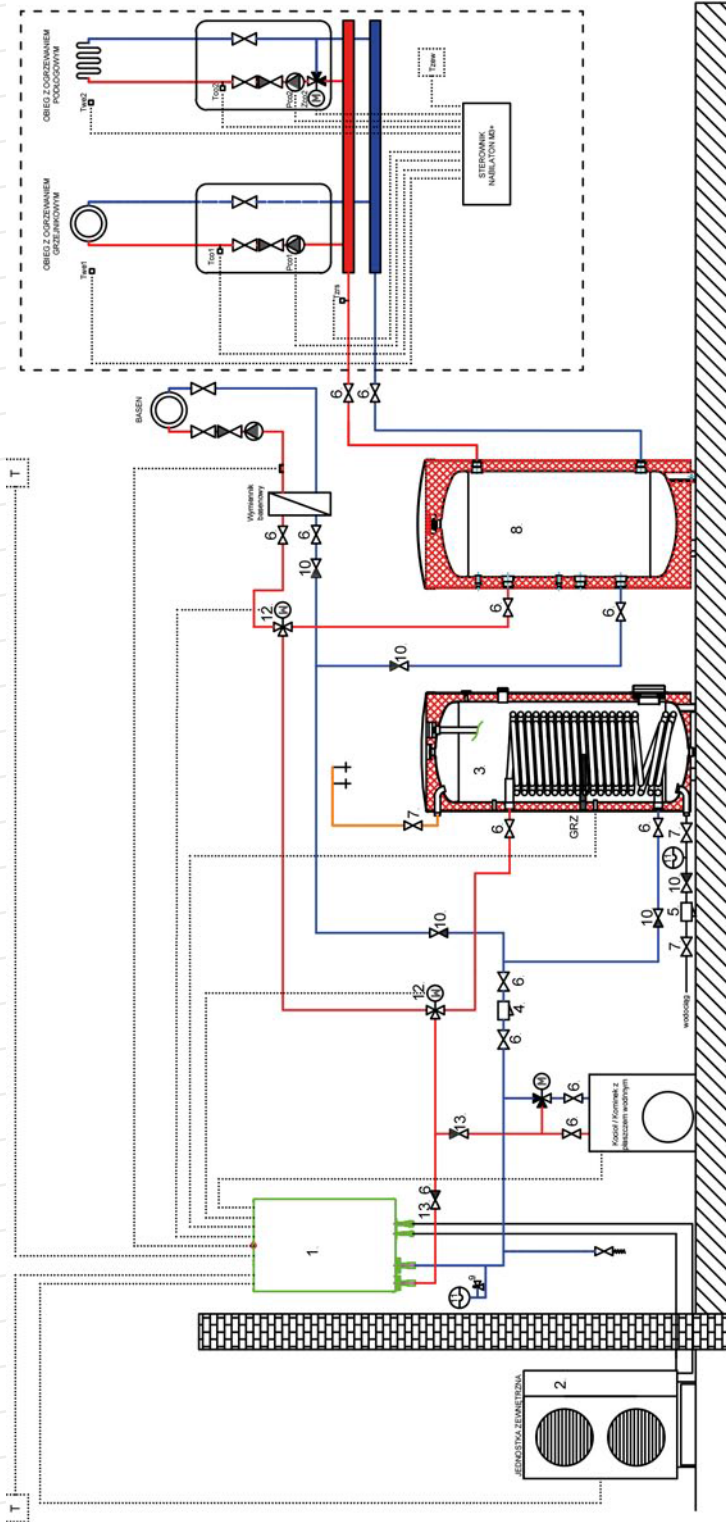
# BOILER ROOM DIAGRAM



| No. | Installation equipment    | Q-ty   | Heating power 6 kW | Heating power 10 kW | Heating power 15 kW | Heating power 20 kW | Heating power 25 kW | Heating power 28 kW      | Heating power 40 kW      | Heating power 45 kW      |
|-----|---------------------------|--------|--------------------|---------------------|---------------------|---------------------|---------------------|--------------------------|--------------------------|--------------------------|
| 1.  | Internal hydraulic module | 1 pc   | H800VI             | H1100VI             | H1400VI             | H1500VI             | H1600VI             | H1800VI                  | H2100VI                  | H2200VI                  |
| 2.  | Outdoor unit              | 1 pc   | NXOL-70B-1IB       | NXOL-100B-3IB       | NXOL-140B-3IB       | NXOL-160B-3IB       | NXOV-252A-3ISE      | NXOV-280A-3ISE           | NXOV-400A-3ISE           | NXOV-450A-3ISE           |
| 3.  | DHW VPB tank              | 1 pc   | VPB 300 R          | VPB 300 R           | VPB 300 R           | VPB 300 R           | VPB 300 R           | VPB 300 R                | VPB 300 R                | VPB 300 R                |
| 4.  | Mesh strainer, type Y     | 1 pc   | 3/4"               | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                     | 3/4"                     | 3/4"                     |
| 5.  | Mesh strainer, type Y     | 1 pc   | 3/4"               | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                     | 3/4"                     | 3/4"                     |
| 6.  | Shut-off valve            | 11 pcs | 1"                 | 1"                  | 1"                  | 1"                  | 1"                  | 1 1/2"                   | 1 1/2"                   | 1 1/2"                   |
| 7.  | Shut-off valve            | 3 pcs  | 3/4"               | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                     | 3/4"                     | 3/4"                     |
| 8.  | Buffer tank               | 1 pc   | select             | select              | select              | select              | select              | select                   | select                   | select                   |
| 9.  | Safety valve              | 1 pc   | select             | select              | select              | select              | select              | select                   | select                   | select                   |
| 10. | Check valve               | 3 pcs  | 3/4"               | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                     | 3/4"                     | 3/4"                     |
| 11. | Expansion vessel          | 2 pcs  | select             | select              | select              | select              | select              | select                   | select                   | select                   |
| 12. | 3-way valve               | 1 pc   | 1" - 1" - 1"       | 1" - 1" - 1"        | 1" - 1" - 1"        | 1" - 1" - 1"        | 1" - 1" - 1"        | 1 1/2" - 1 1/2" - 1 1/2" | 1 1/2" - 1 1/2" - 1 1/2" | 1 1/2" - 1 1/2" - 1 1/2" |
| 13. | Check valve               | 2 pcs  | 1"                 | 1"                  | 1"                  | 1"                  | 1"                  | 1"                       | 1"                       | 1"                       |

In order to obtain some of the functions, unit shall be equipped with additional options. Please contact the Technical-Sales Consultant for the selection of required components.

# BOILER ROOM DIAGRAM

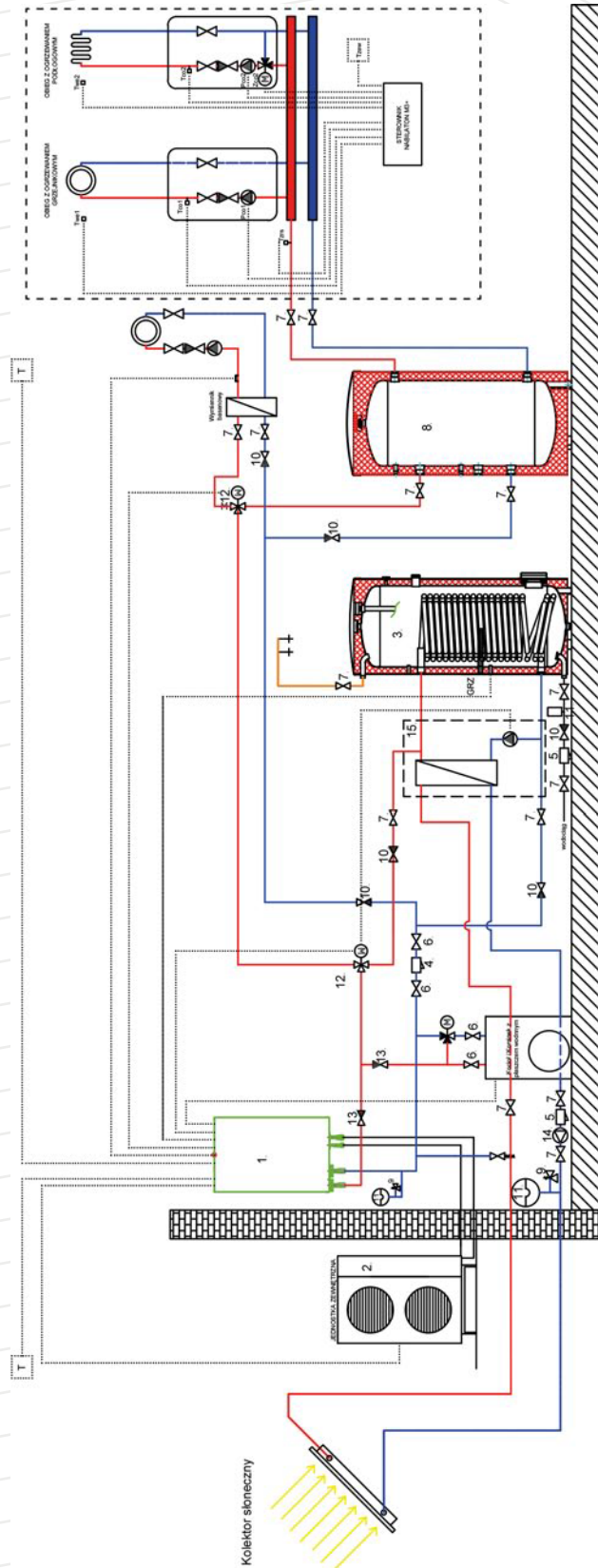


| No. | Installation equipment    | Q-ty   | Heating power 6 kW | Heating power 10 kW | Heating power 15 kW | Heating power 20 kW | Heating power 25 kW | Heating power 28 kW | Heating power 40 kW | Heating power 45 kW |
|-----|---------------------------|--------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 1.  | Internal hydraulic module | 1 pc   | H800VI             | H1100VI             | H1400VI             | H1500VI             | H1600VI             | H1800VI             | H2100VI             | H2200VI             |
| 2.  | Outdoor unit              | 1 pc   | NXOL-70B-1B        | NXOL-100B-3IB       | NXOL-140B-3IB       | NXOL-160B-3IB       | NXOV-252A-3ISE      | NXOV-280A-3ISE      | NXOV-400A-3ISE      | NXOV-450A-3ISE      |
| 3.  | DHW VPB tank              | 1 pc   | VPB 300 R          | VPB 300 R           | VPB 300 R           | VPB 300 R           | VPB 300 R           | VPB 300 R           | VPB 300 R           | VPB 300 R           |
| 4.  | Mesh strainer, type Y     | 1 pc   | 3/4"               | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                |
| 5.  | Mesh strainer, type Y     | 1 pc   | 3/4"               | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                |
| 6.  | Shut-off valve            | 13 pcs | 1"                 | 1"                  | 1"                  | 1"                  | 1"                  | 1 1/2"              | 1 1/2"              | 1 1/2"              |
| 7.  | Shut-off valve            | 3 pcs  | 3/4"               | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                |
| 8.  | Buffer tank               | 1 pc   | select             | select              | select              | select              | select              | select              | select              | select              |
| 9.  | Safety valve              | 1 pc   | select             | select              | select              | select              | select              | select              | select              | select              |
| 10. | Check valve               | 5 pcs  | 3/4"               | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                |
| 11. | Expansion vessel          | 2 pcs  | select             | select              | select              | select              | select              | select              | select              | select              |
| 12. | 3-way valve               | 2 pc   | 1" -1" -1"         | 1" -1" -1"          | 1" -1" -1"          | 1" -1" -1"          | 1" -1" -1"          | 1 1/2" -1 1/2" -1"  | 1 1/2" -1 1/2" -1"  | 1 1/2" -1 1/2" -1"  |
| 13. | Check valve               | 2 pcs  | 1"                 | 1"                  | 1"                  | 1"                  | 1"                  | 1"                  | 1"                  | 1"                  |

In order to obtain some of the functions, unit shall be equipped with additional options. Please contact the Technical-Sales Consultant for the selection of required components.



# BOILER ROOM DIAGRAM



| No. | Installation equipment    | Q-ty   | Heating power 6 kW | Heating power 10 kW | Heating power 15 kW | Heating power 20 kW | Heating power 25 kW | Heating power 28 kW      | Heating power 40 kW      | Heating power 45 kW      |
|-----|---------------------------|--------|--------------------|---------------------|---------------------|---------------------|---------------------|--------------------------|--------------------------|--------------------------|
| 1.  | Internal hydraulic module | 1 pc   | H800VI             | H1100VI             | H1400VI             | H1500VI             | H1600VI             | H1800VI                  | H2100VI                  | H2200VI                  |
| 2.  | Outdoor unit              | 1 pc   | NXOL-70B-3IB       | NXOL-100B-3IB       | NXOL-140B-3IB       | NXOL-160B-3IB       | NXOV-252A-3ISE      | NXOV-280A-3ISE           | NXOV-400A-3ISE           | NXOV-450A-3ISE           |
| 3.  | DHW VPB tank              | 1 pc   | VPB 300 R          | VPB 300 R           | VPB 300 R           | VPB 300 R           | VPB 300 R           | VPB 300 R                | VPB 300 R                | VPB 300 R                |
| 4.  | Mesh strainer, type Y     | 1 pc   | 1"                 | 1"                  | 1"                  | 1"                  | 1"                  | 1 1/2"                   | 1 1/2"                   | 1 1/2"                   |
| 5.  | Mesh strainer, type Y     | 2 pcs  | 3/4"               | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                     | 3/4"                     | 3/4"                     |
| 6.  | Shut-off valve            | 4 pcs  | 1"                 | 1"                  | 1"                  | 1"                  | 1"                  | 1 1/2"                   | 1 1/2"                   | 1 1/2"                   |
| 7.  | Shut-off valve            | 14 pcs | 3/4"               | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                     | 3/4"                     | 3/4"                     |
| 8.  | Buffer tank               | 1 pc   | select             | select              | select              | select              | select              | select                   | select                   | select                   |
| 9.  | Safety valve              | 2 pc   | select             | select              | select              | select              | select              | select                   | select                   | select                   |
| 10. | Check valve               | 6 pcs  | 3/4"               | 3/4"                | 3/4"                | 3/4"                | 3/4"                | 3/4"                     | 3/4"                     | 3/4"                     |
| 11. | Expansion vessel          | 3 pcs  | select             | select              | select              | select              | select              | select                   | select                   | select                   |
| 12. | 3-way valve               | 2 pc   | 1" - 1" - 1"       | 1" - 1" - 1"        | 1" - 1" - 1"        | 1" - 1" - 1"        | 1" - 1" - 1"        | 1 1/2" - 1 1/2" - 1 1/2" | 1 1/2" - 1 1/2" - 1 1/2" | 1 1/2" - 1 1/2" - 1 1/2" |
| 13. | Check valve               | 2 pcs  | 1"                 | 1"                  | 1"                  | 1"                  | 1"                  | 1"                       | 1"                       | 1"                       |
| 14. | Solar circuit pump        | 1 pc   | select             | select              | select              | select              | select              | select                   | select                   | select                   |
| 15. | Solar Kit                 | 1pc    | option             | option              | option              | option              | option              | option                   | option                   | option                   |

In order to obtain some of the functions, unit shall be equipped with additional options. Please contact the Technical-Sales Consultant for the selection of required components.

# COMBO

## HEAT PUMPS



### HEAT PUMP FEATURES

- thermodynamics systems achieving high heating parameters and extremely high heating efficiency coefficients - from 1 kW of energy we can obtain not less than 3.86 kW of thermal energy COP = 3.86;
- hot sanitary water temperature without using the electric heaters is 60°C;
- operation with fresh air with use of electric heaters down to -20°C, without heaters down to -7°C;
- possible to cool down the rooms with exhaust air;
- refrigerant coil completely separated from the drinking water thanks insulated shell of the DHW tank;
- Antilegionella function - water disinfection preventing the growth of Legionella bacteria;
- tank with an additional coil (possible to connect a solar collector or a solid-fuel boiler - applies only to NXCMB-190FS-V1 / NXCMB-300FIS-V1 unit
- hot water tank made of enamelled steel and equipped with magnesium sacrificial anode to ensure maximum protection and durability over time

### DHW HEAT PUMPS

COMBO is a heat pump system for indoor installation, designed for domestic hot water production. It has a cylindrical shape. Lower part hides the domestic hot water tank, and upper - the whole thermodynamic system that heats up water, compressor, heat exchanger, circulating pump, electric heaters.

## FLEXIBLE PIPE INSTALLATION

Examples of pipe installation in different rooms.

Living room



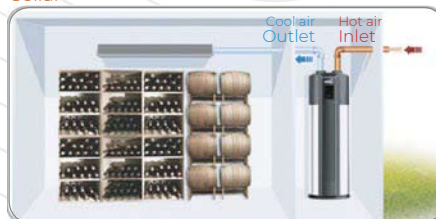
Dining room



Storage / Utility room



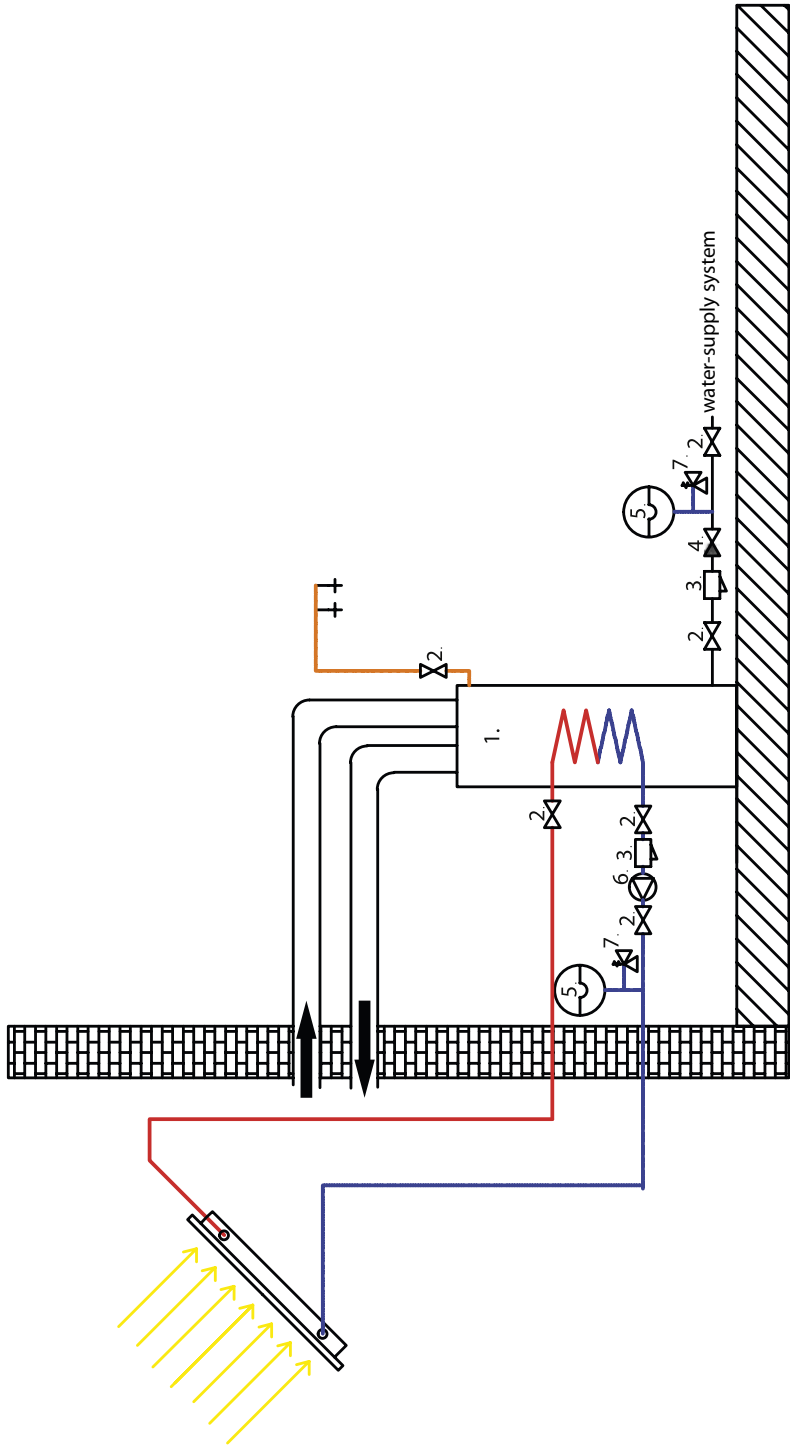
Cellar



## TECHNICAL DATA

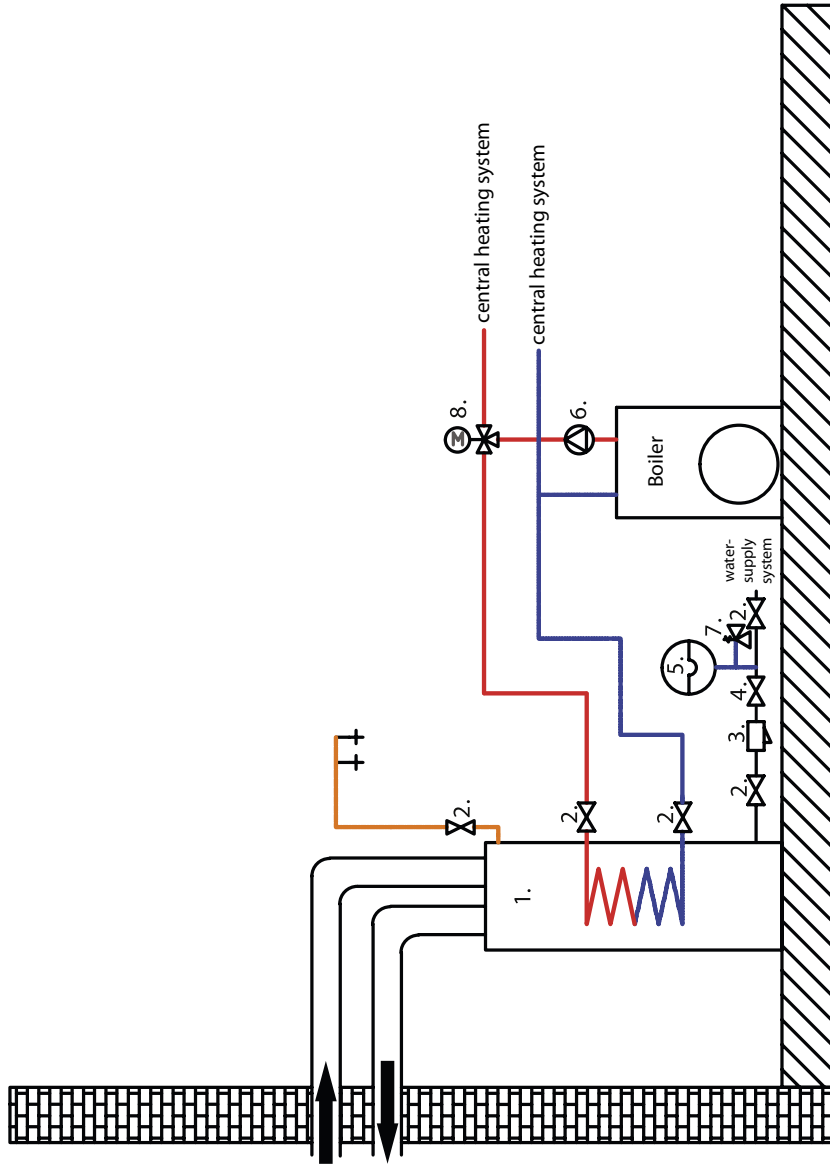
| Model                                |                   | NXCMB-190F-V1                                                   | NXCMB-190FS-V1 | NXCMB-300FI-V1 | NXCMB-300FIS-V1 |
|--------------------------------------|-------------------|-----------------------------------------------------------------|----------------|----------------|-----------------|
| Power supply                         | V/Ph/Hz           | 220-240/1/50                                                    | 220-240/1/50   | 220-240/1/50   | 220-240/1/50    |
| Electrical protection                | A                 | 20                                                              | 20             | 30             | 30              |
| Heating capacity                     | W                 | 1620                                                            | 1620           | 2300           | 2300            |
| Electric heaters power               | W                 | 3000                                                            | 3000           | 3000           | 3000            |
| COP (EN 255-3)                       | W/W               | 3,86                                                            | 3,86           | 4,34           | 4,34            |
| Recommended temperature range        | °C                | -20 ~ 43                                                        | -20 ~ 43       | -20 ~ 43       | -20 ~ 43        |
| Dimensions (diameter / height)       | mm                | 560 / 1830                                                      | 560 / 1830     | 650 / 1930     | 650 / 1930      |
| Tank volume                          | dm <sup>3</sup>   | 176                                                             | 168            | 284            | 272             |
| Compressor                           | type              | rotary                                                          | rotary         | rotary         | rotary          |
| Unit protection                      | -                 | high pressure, overload, thermal, refrigerant loss, flow switch |                |                |                 |
| Max. DHW supply temperature          | °C                | 70                                                              | 70             | 65             | 65              |
| Airflow                              | m <sup>3</sup> /h | 182/230/270                                                     | 182/230/270    | 312/355/414    | 312/355/414     |
| Sound pressure level                 | dB(A)             | 40                                                              | 40             | 40             | 40              |
| Sound power level                    | dB(A)             | 51                                                              | 51             | 53             | 53              |
| Available static pressure            | Pa                | 25                                                              | 25             | 25             | 25              |
| Air connections diameter             | mm                | 160                                                             | 160            | 190            | 190             |
| Max. duct length                     | m                 | 10                                                              | 10             | 10             | 10              |
| Hydraulic connections diameter       | cal (mm)          | 3/4 (DN20)                                                      | 3/4 (DN20)     | 3/4 (DN20)     | 3/4 (DN20)      |
| Additional coil connections diameter | cal (mm)          | -                                                               | 1,1            | -              | 1,3             |
| Net weight (empty)                   | kg                | 107                                                             | 107            | 145,5          | 145,5           |
| Operating weight                     | kg                | 287                                                             | 310            | 412            | 435             |

# BOILER ROOM DIAGRAM 1



| No. | Installation equipment                | Q-ty  |
|-----|---------------------------------------|-------|
| 1.  | NXCMB-300F1S-V1 heat pump             | 1 pc  |
| 2.  | Shut-off valve 3/4"                   | 6 pcs |
| 3.  | Mesh strainer, type Y                 | 2 pcs |
| 4.  | Check valve 3/4"                      | 1 pc  |
| 5.  | Expansion vessel                      | 2 pcs |
| 6.  | Circulating pump (solar pump station) | 1 pc  |
| 7.  | Safety valve                          | 1 pc  |

# BOILER ROOM DIAGRAM 2



| No. | Installation equipment       | Q-ty  |
|-----|------------------------------|-------|
| 1.  | NXCMB-300F1S-V1 heat pump    | 1 pc  |
| 2.  | Shut-off valve 3/4"          | 6 pcs |
| 3.  | Mesh strainer, type Y        | 2 pcs |
| 4.  | Check valve 3/4"             | 1 pc  |
| 5.  | Expansion vessel             | 2 pcs |
| 6.  | Pump assembly (boiler drive) | 1 pc  |
| 7.  | Safety valve                 | 1 pc  |
| 8.  | 3-way valve                  | 1 pc  |



# NOXA Aqua

## BROAD POSSIBILITIES

NOXA presents a wide range of fan-coil units, devices intended to maintain room comfort temperature. The line-up includes cassette, ducted, wall-mounted, floor and under ceiling units. NOXA fan-coil units are compatible with two- and four- pipe systems, in heating-cooling configuration.

Exceptionally compact construction of the NOXA fan-coils has many advantages: modern look, small installation space, easy installation, maximum reduction of exhaust and room air temperature differences, while maintaining the adequate comfort without lowering cooling capacity of the unit.

Well designed airflow rate allows frequent room ventilation, provides greater amount of fresh air and evenly distributes temperatures in the room. The benefits of advanced technologies and materials is the reduced noise and continuous operation.



**Single-family houses**  
quiet operation



**Restaurants**  
easy installation



**Factories, logistics centres, warehouses**  
energy saving



**Shopping malls**  
comfort conditions



**Education sites**  
effective training process






**Offices**  
stable working conditions



## 2-PIPE DC FAN-COIL UNITS

| Model / Size:<br>Airflow (CFM) /<br>Airflow (m3/h) |                                                                                   | 150 /<br>250 | 200 /<br>340 | 250 /<br>425 | 300 /<br>500 | 400 /<br>680 | 450 /<br>760 | 500 /<br>850 |
|----------------------------------------------------|-----------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 4-way Cassette                                     |  |              |              |              |              |              |              |              |
| 4-way Compact Cassette                             |  |              |              |              |              |              |              |              |
| Ducted                                             |  |              |              |              |              |              |              |              |
| Wall-mounted                                       |  |              |              |              |              |              |              |              |
| Ceiling & Floor                                    |  |              |              |              |              |              |              |              |

## 4-PIPE DC FAN-COIL UNITS

| Model / Size:<br>Airflow (CFM) /<br>Airflow (m3/h) |                                                                                     | 150 /<br>250 | 200 /<br>340 | 250 /<br>425 | 300 /<br>500 | 400 /<br>680 | 450 /<br>760 | 500 /<br>850 |
|----------------------------------------------------|-------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 4-way Compact Cassette                             |  |              |              |              |              |              |              |              |
| 4-way Cassette                                     |  |              |              |              |              |              |              |              |
| Ducted                                             |  |              |              |              |              |              |              |              |





| 600 / 1000      | 750 / 1250 | 800 / 1350 | 850 / 1350 | 900 / 1530 | 950 / 1650 | 1000 / 1700 | 1200 / 2000 | 1500 / 2550 |
|-----------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|
|                 |            |            |            |            |            |             |             |             |
| Yellow bar      |            |            | Yellow bar |            | Yellow bar |             | Yellow bar  |             |
|                 |            |            |            |            |            |             |             |             |
| Yellow bar      |            | Yellow bar |            |            |            | Yellow bar  |             |             |
| Dark yellow bar |            |            |            |            |            |             |             |             |
| Yellow bar      |            | Yellow bar |            |            |            |             |             |             |

| 600 / 1000      | 750 / 1250 | 800 / 1350      | 850 / 1350 | 900 / 1530 | 950 / 1650 | 1000 / 1700     | 1200 / 2000 | 1400 / 2380 | 1500 / 2550 |
|-----------------|------------|-----------------|------------|------------|------------|-----------------|-------------|-------------|-------------|
|                 |            |                 |            |            |            |                 |             |             |             |
| Yellow bar      |            |                 | Yellow bar |            | Yellow bar |                 | Yellow bar  |             | Yellow bar  |
|                 |            |                 |            |            |            |                 |             |             |             |
| Dark yellow bar |            | Dark yellow bar |            |            |            | Dark yellow bar |             |             |             |

## 2-PIPE AC FAN-COIL UNITS

| Model / Size:<br>Airflow (CFM) /<br>Airflow (m3/h) |                                                                                     | 150 /<br>250 | 200 /<br>340 | 250 /<br>425 | 300 /<br>500 | 400 /<br>680 | 450 /<br>760 | 500 /<br>850 | 600 /<br>1000 | 750 /<br>1250 |
|----------------------------------------------------|-------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| 1-way<br>Cassette                                  |    |              |              |              | ■            |              |              |              | ■             |               |
| 1-way<br>Compact<br>Cassette                       |    |              |              |              | ■            |              |              | ■            |               |               |
| Ducted                                             |    |              | ■            |              | ■            |              |              | ■            |               |               |
| Ducted<br>- high static<br>pressure                |    |              |              |              |              |              |              |              |               |               |
| Wall-mounted                                       |    |              |              | ■            |              |              |              | ■            |               |               |
| Ceiling & Floor                                    |  | ■            |              | ■            |              |              |              |              |               |               |
| Standing                                           |  | ■            |              | ■            |              |              |              |              |               |               |

## 4-PIPE AC FAN-COIL UNITS

| Model / Size:<br>Airflow (CFM) /<br>Airflow (m3/h) |                                                                                     | 150 /<br>250 | 200 /<br>340 | 250 /<br>425 | 300 /<br>500 | 400 /<br>680 | 450 /<br>760 | 500 /<br>850 | 600 /<br>1000 | 750 /<br>1250 |
|----------------------------------------------------|-------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| 4-way<br>Compact<br>Cassette                       |  |              |              |              | ■            |              |              | ■            |               |               |
| Ducted                                             |  |              | ■            |              | ■            |              |              | ■            |               |               |



# 4-WAY CASSETTE FAN-COILS

4-WAY STANDARD version (840x840)

4-WAY COMPACT version



2 pipe installation



4 pipe installation



2 pipe installation



4 pipe installation

## GENERAL INFO

NOXA 4-way cassette fan-coil units are available in versions: with 1 heat exchanger (2 pipe system) and 2 exchangers (4 pipe system) and two sizes: Compact and Standard. Possibility to use DC

brushless motors as well as AC motors. As standard, units are equipped with with wireless remote controller.



Compact cassette unit



Standard cassette unit

Dedicated control  
(as standard)

Optional control



R51/E



R05/BGE



KJR-29B/BK-E



KJR-12B/DP(T)-E

| Wireless remote controller<br>(STANDARD) | Wired remote controller<br>(OPTION) | Central controller<br>(OPTION) | Advanced control system<br>(OPTION) |
|------------------------------------------|-------------------------------------|--------------------------------|-------------------------------------|
| R51/E (AC)<br>R05/BGE (DC)               | KJR-12B/DP(T)-E<br>KJR-29B/BK-E     | CCM30                          | LonGW64/E<br>CCM08<br>CCM18<br>IMM  |

## MASKING PANEL

- 4-way air supply available as a standard in 840x840 cassette; (360° circular flow panel available as an option)
- Compact cassette standard equipment includes the 360° circular flow panel.



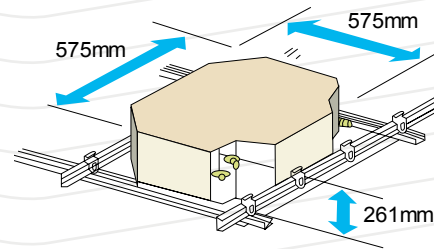
4-way panel



360° panel

## COMPACT DIMENSIONS AND EASY INSTALLATION

Exceptionally space-saving design of the small Compact cassette suits any room interior and do not need much space for installation in the ceiling void. Compact dimensions and low weight of all Compact cassette models enable installation without using a crane.

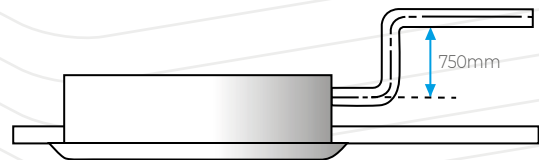


## QUIET OPERATION + HIGH PERFORMANCE

Application of the brushless DC motor provides efficient operation with low current consumption, at the same time emitting low noise level, what results in increased room comfort.

## CONDENSATE DRAIN

The standard-supplied drain pump with lifting height up to 750 mm (standard unit) and 500 mm for Compact cassette.



## FRESH AIR

Fresh air can be supplied through a dedicated opening in the unit, this way increasing the level of user comfort.

## OPTIONAL ACCESSORIES

- Enlarged drain pan for better protection.
- Wireless remote controller as a standard (wired controller as an option)
- Possibility to apply an additional heating element in the form of electric heater (additional option)
- NIM01 interface required for center control and advanced BMS (cassette type units without compatible control board)



## STANDARD - 2-PIPE SYSTEM - DC VERSION

| NXKA model           |                                    |                        |         | V600R          | V750R          | V850R           |
|----------------------|------------------------------------|------------------------|---------|----------------|----------------|-----------------|
| Airflow              |                                    | high/mid/low           | m³/h    | 1175/987/768   | 1229/1020/810  | 1451/1146/1012  |
| Cooling              | Capacity                           | high/mid/low           | kW      | 5.93/5.3/4.4   | 6.12/5.45/4.6  | 7.52/6.46/5.89  |
|                      | Flow of water                      |                        | l/h     | 1050           | 1100           | 1370            |
|                      | Water pressure drop                |                        | kPa     | 19.2           | 21.3           | 20.1            |
| Heating <sup>1</sup> | Capacity                           | high/mid/low           | kW      | 6.06/6.35/5.32 | 6.27/6.53/5.43 | 7.88/7.48/6.76  |
|                      | Flow of water                      |                        | l/h     | 1300           | 1390           | 1660            |
|                      | Water pressure drop                |                        | kPa     | 25.9           | 30             | 26.7            |
| Heating <sup>2</sup> | Capacity                           | high/mid/low           | kW      | 8.42/7.37/6.06 | 8.62/7.49/6.27 | 10.37/8.72/7.88 |
|                      | Flow of water                      |                        | l/h     | 1060           | 1100           | 1370            |
|                      | Water pressure drop                |                        | kPa     | 16.9           | 19.1           | 18.2            |
| Power supply         |                                    |                        | V/Ph/Hz | 220-240/1/50   |                |                 |
| Power input          |                                    |                        | W       | 41             | 49             | 68              |
| Sound pressure level |                                    | high/mid/low           | dB(A)   | 43/39/33       | 44/40/34       | 45/40/37        |
| Fan motor            | Type                               |                        |         | DC             | DC             | DC              |
| Heat exchanger       | No. of rows                        |                        |         | 2              | 2              | 2               |
|                      | Max. operating pressure            |                        | MPa     | 1.6            | 1.6            | 1.6             |
| Panel                | Dimensions                         | width x height x depth | mm      | 950x230x840    | 950x45x950     | 950x45x950      |
|                      | Weight                             |                        | kg      | 6              | 6              | 6               |
| Unit                 | Dimensions                         | width x height x depth | mm      | 840x230x840    | 840x230x840    | 840x300x840     |
|                      | Weight                             |                        | kg      | 23             | 23             | 27              |
| Connections          | Hydraulic connections inlet/outlet |                        | cal     | RC3/4          |                |                 |
|                      | Drainage                           |                        | mm      | ODø32          |                |                 |

| NXKA model           |                                    |                        |         | V950R           | V1200R          | V1500R            |
|----------------------|------------------------------------|------------------------|---------|-----------------|-----------------|-------------------|
| Airflow              |                                    | high/mid/low           | m³/h    | 1530/1224/1101  | 1581/1371/1236  | 1871/1415/1198    |
| Cooling              | Capacity                           | high/mid/low           | kW      | 7.84/6.84/6.35  | 7.87/7.12/6.67  | 11.19/8.82/7.48   |
|                      | Flow of water                      |                        | l/h     | 1430            | 1440            | 1960              |
|                      | Water pressure drop                |                        | kPa     | 22              | 22.3            | 36.6              |
| Heating <sup>1</sup> | Capacity                           | high/mid/low           | kW      | 8.49/8/7.35     | 9.16/8.54/7.9   | 10.07/10.08/8.68  |
|                      | Flow of water                      |                        | l/h     | 1710            | 1730            | 2350              |
|                      | Water pressure drop                |                        | kPa     | 28.1            | 28.8            | 49.2              |
| Heating <sup>2</sup> | Capacity                           | high/mid/low           | kW      | 10.86/9.24/8.49 | 10.92/9.84/9.16 | 14.92/11.73/10.07 |
|                      | Flow of water                      |                        | l/h     | 1430            | 1440            | 1960              |
|                      | Water pressure drop                |                        | kPa     | 19.9            | 20              | 34.3              |
| Power supply         |                                    |                        | V/Ph/Hz | 220-240/1/50    |                 |                   |
| Power input          |                                    |                        | W       | 75              | 85              | 126               |
| Sound pressure level |                                    | high/mid/low           | dB(A)   | 46/42/39        | 48/44/41        | 49/43/39          |
| Fan motor            | Type                               |                        |         | DC              | DC              | DC                |
| Heat exchanger       | No. of rows                        |                        |         | 2               | 2               | 3                 |
|                      | Max. operating pressure            |                        | MPa     | 1.6             | 1.6             | 1.6               |
| Panel                | Dimensions                         | width x height x depth | mm      | 950x45x950      | 950x45x950      | 950x45x950        |
|                      | Weight                             |                        | kg      | 6               | 6               | 6                 |
| Unit                 | Dimensions                         | width x height x depth | mm      | 840x300x840     | 840x300x840     | 840x300x840       |
|                      | Weight                             |                        | kg      | 27              | 27              | 29.5              |
| Connections          | Hydraulic connections inlet/outlet |                        | cal     | RC3/4           |                 |                   |
|                      | Drainage                           |                        | mm      | ODø32           |                 |                   |

### Notes:

1. Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.

Conditions for heating<sup>1</sup>: water inlet temperature 45°C, air inlet temperature 20°CDB.

Conditions for heating<sup>2</sup>: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.

2. Noise level measured in a semi-anechoic chamber.

## STANDARD - 4-PIPE SYSTEM - DC VERSION

| NXKA model           |                                    |                        |                   | V600F                               | V750F          | V850F          |
|----------------------|------------------------------------|------------------------|-------------------|-------------------------------------|----------------|----------------|
| Airflow              |                                    | high/mid/low           | m <sup>3</sup> /h | 1287/1084/851                       | 1389/1149/929  | 1444/1143/1008 |
| Cooling              | Capacity                           | high/mid/low           | kW                | 5.36/4.81/4                         | 5.62/5/4.26    | 5.63/4.88/4.5  |
|                      | Flow of water                      |                        | l/h               | 990                                 | 1040           | 990            |
|                      | Water pressure drop                |                        | kPa               | 14.8                                | 15.9           | 16             |
| Heating <sup>1</sup> | Capacity                           | high/mid/low           | kW                | 7.38/6.06/5.09                      | 7.66/6.35/5.44 | 8.15/6.29/5.76 |
|                      | Flow of water                      |                        | l/h               | 610                                 | 650            | 670            |
|                      | Water pressure drop                |                        | kPa               | 25.3                                | 32             | 32.6           |
| Heating <sup>2</sup> | Capacity                           | high/mid/low           | kW                | 7.66/6.88/5.83                      | 8.15/7.19/6.17 | 8.34/7.17/6.57 |
|                      | Flow of water                      |                        | l/h               | 690                                 | 730            | 780            |
|                      | Water pressure drop                |                        | kPa               | 37.2                                | 39.5           | 41.6           |
| Power supply         |                                    |                        | V/Ph/Hz           | 220-240/1/50                        |                |                |
| Power input          |                                    |                        | W                 | 50                                  | 49             | 68             |
| Sound pressure level |                                    | high/mid/low           | dB(A)             | 42/37/31                            | 44/40/34       | 45/40/37       |
| Fan motor            | Type                               |                        |                   | DC                                  | DC             | DC             |
| Heat exchanger       | No. of rows                        |                        |                   | 2                                   | 2              | 2              |
|                      | Max. operating pressure            |                        | MPa               | 1.6                                 | 1.6            | 1.6            |
| Panel                | Dimensions                         | width x height x depth | mm                | 950x45x950                          | 950x45x950     | 950x45x950     |
|                      | Weight                             |                        | kg                | 6                                   | 6              | 6              |
| Unit                 | Dimensions                         | width x height x depth | mm                | 840x300x840                         | 840x300x840    | 840x300x840    |
|                      | Weight                             |                        | kg                | 27,5                                | 27,5           | 27,5           |
| Connections          | Hydraulic connections inlet/outlet |                        | cal               | cold water: RC3/4; hot water: RC1/2 |                |                |
|                      | Drainage                           |                        | mm                | ODø32                               |                |                |

| NXKA model           |                                    |                        |                   | V950F                               | V1200F            | V1500F           |
|----------------------|------------------------------------|------------------------|-------------------|-------------------------------------|-------------------|------------------|
| Airflow              |                                    | high/mid/low           | m <sup>3</sup> /h | 1525/1212/1088                      | 1785/1545/1397    | 1857/1410/1191   |
| Cooling              | Capacity                           | high/mid/low           | kW                | 5.82/5.07/4.75                      | 8.75/7.97/7.4     | 8.76/7.29/6.45   |
|                      | Flow of water                      |                        | l/h               | 1040                                | 1570              | 1580             |
|                      | Water pressure drop                |                        | kPa               | 16,4                                | 33,9              | 33               |
| Heating <sup>1</sup> | Capacity                           | high/mid/low           | kW                | 8.52/6.36/5.93                      | 11.7/9.88/9.27    | 12.29/9.17/8.24  |
|                      | Flow of water                      |                        | l/h               | 680                                 | 960               | 990              |
|                      | Water pressure drop                |                        | kPa               | 34                                  | 42,4              | 48,7             |
| Heating <sup>2</sup> | Capacity                           | high/mid/low           | kW                | 8.37/7.24/6.76                      | 12.19/11.21/10.52 | 12.47/10.53/9.53 |
|                      | Flow of water                      |                        | l/h               | 780                                 | 1100              | 1140             |
|                      | Water pressure drop                |                        | kPa               | 43.8                                | 52,1              | 62,1             |
| Power supply         |                                    |                        | V/Ph/Hz           | 220-240/1/50                        |                   |                  |
| Power input          |                                    |                        | W                 | 77                                  | 107               | 125              |
| Sound pressure level |                                    | high/mid/low           | dB(A)             | 46/41/38                            | 48/44/42          | 49/43/38         |
| Fan motor            | Type                               |                        |                   | DC                                  | DC                | DC               |
| Heat exchanger       | No. of rows                        |                        |                   | 2                                   | 3                 | 3                |
|                      | Max. operating pressure            |                        | MPa               | 1.6                                 | 1.6               | 1.6              |
| Panel                | Dimensions                         | width x height x depth | mm                | 950x45x950                          | 950x45x950        | 950x45x950       |
|                      | Weight                             |                        | kg                | 6                                   | 6                 | 6                |
| Unit                 | Dimensions                         | width x height x depth | mm                | 840x300x840                         | 840x300x840       | 840x300x840      |
|                      | Weight                             |                        | kg                | 27,5                                | 30                | 30               |
| Connections          | Hydraulic connections inlet/outlet |                        | cal               | cold water: RC3/4; hot water: RC1/2 |                   |                  |
|                      | Drainage                           |                        | mm                | ODø32                               |                   |                  |

### Notes:

- Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB. Conditions for heating<sup>1</sup>: water inlet temperature 65°C, air inlet temperature 20°CDB. Conditions for heating<sup>2</sup>: water inlet temperature 70°C, air inlet temperature 20°CDB.
- Noise level measured in a semi-anechoic chamber.

## COMPACT - 2-PIPE SYSTEM - DC VERSION

| NXKD model           |                                    |                        |                   | V300           | V400           | V500           |
|----------------------|------------------------------------|------------------------|-------------------|----------------|----------------|----------------|
| Airflow              |                                    | high/mid/low           | m <sup>3</sup> /h | 535/429/322    | 719/561/448    | 781/611/494    |
| Chłodzenie           | Capacity                           | high/mid/low           | kW                | 2.98/2.53/2    | 3.96/3.26/2.76 | 4.2/3.48/3.01  |
|                      | Flow of water                      |                        | l/h               | 530            | 700            | 750            |
|                      | Water pressure drop                |                        | kPa               | 10             | 11,48          | 12.32          |
| Heating <sup>1</sup> | Capacity                           | high/mid/low           | kW                | 2.61/2.89/2.24 | 4.63/3.79/3.1  | 4.95/3.99/3.26 |
|                      | Flow of water                      |                        | l/h               | 640            | 830            | 870            |
|                      | Water pressure drop                |                        | kPa               | 12.1           | 9.2            | 9.4            |
| Heating <sup>2</sup> | Capacity                           | high/mid/low           | kW                | 4.01/3.35/2.61 | 5.4/4.34/3.57  | 5.76/4.69/3.84 |
|                      | Flow of water                      |                        | l/h               | 530            | 700            | 750            |
|                      | Water pressure drop                |                        | kPa               | 8.2            | 12.68          | 11.41          |
| Power supply         |                                    |                        | V/Ph/Hz           | 220-240/1/50   |                |                |
| Power input          |                                    |                        | W                 | 15             | 28             | 43             |
| Sound pressure level |                                    | high/mid/low           | dB(A)             | 39/33/27       | 42/36/30       | 43/38/32       |
| Fan motor            | Type                               |                        |                   | DC             | DC             | DC             |
| Heat exchanger       | No. of rows                        |                        |                   | 2              | 2              | 2              |
|                      | Max. operating pressure            |                        | MPa               | 1.6            | 1.6            | 1.6            |
| Panel                | Dimensions                         | width x height x depth | mm                | 647x50x647     | 647x50x647     | 647x50x647     |
|                      | Weight                             |                        | kg                | 2.5            | 2.5            | 2.5            |
| Unit                 | Dimensions                         | width x height x depth | mm                | 575x261x575    | 575x261x575    | 575x261x575    |
|                      | Weight                             |                        | kg                | 16,5           | 16,5           | 16,5           |
| Connections          | Hydraulic connections inlet/outlet |                        | cal               | GD3/4          |                |                |
|                      | Drainage                           |                        | mm                | ODø25          |                |                |

### Notes:

1. Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating<sup>1</sup>: water inlet temperature 45°C, air inlet temperature 20°CDB.  
Conditions for heating<sup>2</sup>: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
2. Noise level measured in a semi-anechoic chamber.



**COMPACT - 4-PIPE SYSTEM - DC VERSION**

| NXKD model           |                                    |                        |                   | V300F                               | V400F          | V500F          |
|----------------------|------------------------------------|------------------------|-------------------|-------------------------------------|----------------|----------------|
| Airflow              |                                    | high/mid/low           | m <sup>3</sup> /h | 536/429/321                         | 727/569/451    | 731/572/462    |
| Cooling              | Capacity                           | high/mid/low           | kW                | 2.4/2.08/1.65                       | 3.08/2.64/2.28 | 3.05/2.62/2.3  |
|                      | Flow of water                      |                        | l/h               | 420                                 | 560            | 540            |
|                      | Water pressure drop                |                        | kPa               | 17.4                                | 13.15          | 16.8           |
| Heating <sup>1</sup> | Capacity                           | high/mid/low           | kW                | 4.24/2.86/2.25                      | 5.52/3.53/2.98 | 5.97/3.66/3.09 |
|                      | Flow of water                      |                        | l/h               | 320                                 | 360            | 390            |
|                      | Water pressure drop                |                        | kPa               | 23.5                                | 24.14          | 26.8           |
| Heating <sup>2</sup> | Capacity                           | high/mid/low           | kW                | 3.85/3.25/2.55                      | 4.78/4.03/3.4  | 4.9/4.12/3.5   |
|                      | Flow of water                      |                        | l/h               | 360                                 | 420            | 460            |
|                      | Water pressure drop                |                        | kPa               | 29,8                                | 30,36          | 36,1           |
| Power supply         |                                    |                        | V/Ph/Hz           | 220-240/1/50                        |                |                |
| Power input          |                                    |                        | W                 | 14                                  | 37             | 32             |
| Sound pressure level |                                    | high/mid/low           | dB(A)             | 39/33/27                            | 42/35/30       | 44/39/31       |
| Fan motor            | Type                               |                        |                   | DC                                  | DC             | DC             |
| Heat exchanger       | No. of rows                        |                        |                   | 2                                   | 2              | 2              |
|                      | Max. operating pressure            |                        | MPa               | 1.6                                 | 1.6            | 1.6            |
| Panel                | Dimensions                         | width x height x depth | mm                | 647×50×647                          | 647×50×647     | 647×50×647     |
|                      | Weight                             |                        | kg                | 2.5                                 | 2.5            | 2.5            |
| Unit                 | Dimensions                         | width x height x depth | mm                | 575×261×575                         | 575×261×575    | 575×261×575    |
|                      | Weight                             |                        | kg                | 16,7                                | 16,7           | 16,7           |
| Connections          | Hydraulic connections inlet/outlet |                        | cal               | cold water: RC3/4; hot water: RC1/2 |                |                |
|                      | Drainage                           |                        | mm                | ODø25                               |                |                |

## Notes:

- Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating<sup>1</sup>: water inlet temperature 65°C, air inlet temperature 20°CDB.  
Conditions for heating<sup>2</sup>: water inlet temperature 70°C, air inlet temperature 20°CDB.
- Noise level measured in a semi-anechoic chamber.

## COMPACT - 2-PIPE SYSTEM - AC VERSION

| NXKA model           |                                    |                        |                   | 300          | 400           | 500          |
|----------------------|------------------------------------|------------------------|-------------------|--------------|---------------|--------------|
| Airflow              |                                    | high/mid/low           | m <sup>3</sup> /h | 510/440/360  | 680/580/480   | 850/730/600  |
| Cooling              | Capacity                           | high/mid/low           | kW                | 3/2.58/2.16  | 3.7/3.18/2.66 | 4.5/3.6/3.06 |
|                      | Flow of water                      |                        | l/h               | 522          | 642           | 774          |
|                      | Water pressure drop                |                        | kPa               | 14           | 15            | 16           |
| Heating              | Capacity                           | high/mid/low           | kW                | 4/3.5/3.08   | 5.1/4.3/3.83  | 6/4.76/4.0   |
|                      | Water pressure drop                |                        | kPa               | 14           | 15            | 16           |
| Power supply         |                                    |                        | V/Ph/Hz           | 220-240/1/50 |               |              |
| Power input          |                                    |                        | W                 | 50           | 70            | 95           |
| Sound pressure level |                                    | high/mid/low           | dB(A)             | 36/33/28     | 36/33/28      | 36/33/28     |
| Heat exchanger       | No. of rows                        |                        |                   | 2            | 2             | 2            |
|                      | Max. operating pressure            |                        | MPa               | 1.6          | 1.6           | 1.6          |
| Panel                | Dimensions                         | width x height x depth | mm                | 647x50x647   | 647x50x647    | 647x50x647   |
|                      | Weight                             |                        | kg                | 3            | 3             | 3            |
| Unit                 | Dimensions                         | width x height x depth | mm                | 575x261x575  | 575x261x575   | 575x261x575  |
|                      | Weight                             |                        | kg                | 16,5         | 16,5          | 16,5         |
| Connections          | Hydraulic connections inlet/outlet |                        | cal               | RC3/4        |               |              |
|                      | Drainage                           |                        | mm                | ODø25        |               |              |

### Notes:

- Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating: water inlet temperature 50°C, air temperature 20°CDB, flow of water same as for cooling.
- Noise level measured in a semi-anechoic chamber.

**COMPACT - 4-PIPE SYSTEM - AC VERSION**

| NXKA model           |                                    |                        |                   | 300S                              | 400S          | 500S          |
|----------------------|------------------------------------|------------------------|-------------------|-----------------------------------|---------------|---------------|
| Airflow              |                                    | high/mid/low           | m <sup>3</sup> /h | 510/440/360                       | 680/580/480   | 850/730/600   |
| Cooling              | Capacity                           | high/mid/low           | kW                | 2.5/2.2/1.76                      | 2.9/2.55/2.04 | 3.5/2.87/2.15 |
|                      | Flow of water                      |                        | l/h               | 432                               | 504           | 600           |
|                      | Water pressure drop                |                        | kPa               | 22                                | 16            | 24            |
| Heating              | Capacity                           | high/mid/low           | kW                | 3.7/3.29/2.92                     | 4.6/3.82/3.4  | 5.1/4.03/3.52 |
|                      | Flow of water                      |                        | l/h               | 318                               | 396           | 438           |
|                      | Water pressure drop                |                        | kPa               | 17                                | 23            | 27            |
| Power supply         |                                    |                        | V/Ph/Hz           | 220-240/1/50                      |               |               |
| Power input          |                                    |                        | W                 | 50                                | 70            | 95            |
| Sound pressure level |                                    | high/mid/low           | dB(A)             | 36/33/28                          | 42/39/32      | 45/42/34      |
| Heat exchanger       | No. of rows                        |                        |                   | 2                                 | 2             | 2             |
|                      | Max. operating pressure            |                        | MPa               | 1.6                               | 1.6           | 1.6           |
| Panel                | Dimensions                         | width x height x depth | mm                | 647x50x647                        | 647x50x647    | 647x50x647    |
|                      | Weight                             |                        | kg                | 3                                 | 3             | 3             |
| Unit                 | Dimensions                         | width x height x depth | mm                | 575x261x575                       | 575x261x575   | 575x261x575   |
|                      | Weight                             |                        | kg                | 17,5                              | 17,5          | 17,5          |
| Connections          | Hydraulic connections inlet/outlet |                        | cal               | cold water: G3/4; hot water: G1/2 |               |               |
|                      | Drainage                           |                        | mm                | ODø25                             |               |               |

## Notes:

- Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating: water inlet temperature 50°C, air temperature 20°CDB, flow of water same as for cooling.
- Noise level measured in a semi-anechoic chamber.

# 1-WAY CASSETTE FAN-COIL UNITS



## GENERAL INFO

NOXA 1-way cassette fan-coils are available with 1 heat exchanger (2-pipe systems) and two size variants.



1-way cassette unit

Dedicated control  
(as standard)

Optional control



R51/E



R05/BGE



KJR-29B/BK-E

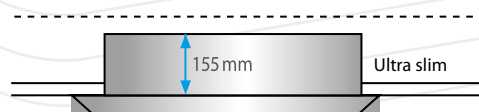


KJR-12B/DP(T)-E

| Wireless remote controller<br>(STANDARD) | Wired remote controller<br>(OPTION) | Central controller<br>(OPTION) | Advanced control system<br>(OPTION) |
|------------------------------------------|-------------------------------------|--------------------------------|-------------------------------------|
| R05/BGE                                  | KJR-12B/DP(T)-E<br>KJR-29B/BK-E     | CCM30                          | LonGW64/E<br>CCM08<br>CCM18<br>IMM  |

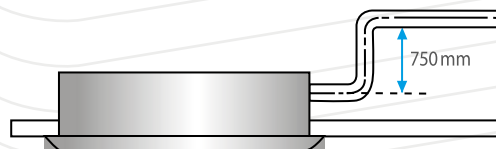
## SPACE SAVING

Compact design, unit height is only 155 mm (MKC-300/400 models), intended for installation in restricted ceiling void access space, like corridors and small conference rooms.



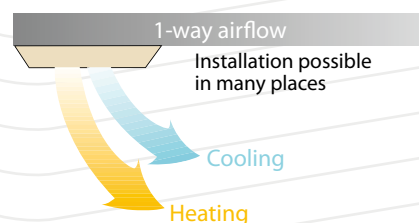
## DRAIN PUMP

The standard-supplied drain pump with lifting height up to 750 mm.



## 1-WAY AIRFLOW

Application of the 1-way cassette provides fast cooling of room air down to the setting temperature and also great versatility in choosing the installation place.



## 2-PIPE SYSTEM - AC VERSION

| NXKC model                  |                                    |                        |                   | 300R-B         | 400R-B         | 600HRN4         |
|-----------------------------|------------------------------------|------------------------|-------------------|----------------|----------------|-----------------|
| Airflow                     |                                    | high/mid/low           | m <sup>3</sup> /h | 510/450/400    | 630/560/500    | 1000/880/800    |
| Cooling                     | Capacity                           | high/mid/low           | kW                | 3.04/2.79/2.56 | 3.79/3.58/3.38 | 5.709/4.85/4.36 |
|                             | Flow of water                      |                        | l/h               | 520            | 650            | 982             |
|                             | Water pressure drop                |                        | kPa               | 14             | 20             | 20,2            |
| Heating                     | Capacity                           | high/mid/low           | kW                | 5.13/4.69/4.04 | 6.41/5.86/5.11 | 9.6/8.36/7.48   |
|                             | Water pressure drop                |                        | kPa               | 9              | 16             | 18,1            |
| Power supply                |                                    |                        | V/Ph/Hz           | 220-240/1/50   |                |                 |
| Power input                 |                                    |                        | W                 | 32             | 40             | 125             |
| Electric heater (version A) |                                    |                        | W                 | 750            | 750            | /               |
| Sound pressure level        |                                    | high/mid/low           | dB(A)             | 36/34/32       | 37/35/34       | 45/39/37        |
| Heat exchanger              | No. of rows                        |                        |                   | 2              | 2              | 3               |
|                             | Max. operating pressure            |                        | MPa               | 1.6            | 1.6            | 1.6             |
| Panel                       | Dimensions                         | width x height x depth | mm                | 1180x25x465    | 1180x25x465    | 1420x10x755     |
|                             | Weight                             |                        | kg                | 3,5            | 3,5            | 9               |
| Jednostka                   | Dimensions                         | width x height x depth | mm                | 1054x155x428   | 1054x155x428   | 1200x198x655    |
|                             | Weight                             |                        | */A               | kg             | 12,8/13,1      | 32.6            |
| Connections                 | Hydraulic connections inlet/outlet |                        | cal               | RC1/2          |                |                 |
|                             | Drainage                           |                        | mm                | ODø25          |                |                 |

### Notes:

- Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating: water inlet temperature 50°C, air temperature 20°CDB, flow of water same as for cooling.
  - Noise level measured in a semi-anechoic chamber.
- \* For units without heater, A - for units with heater

# DUCTED FAN-COIL UNITS



Ducted



High pressure duct type



"District" duct type  
- central cooling system

## GENERAL INFO

NOXA ducted fan-coil units are available in following versions: with 1 heat exchanger (2-pipe systems) and 2 heat exchangers (4-pipe systems). There is also a choice of 2, 3 or 4-row exchangers that offer opportunity to improve heating / cool-

ing capacity without changing dimensions of the unit itself. Units can be equipped with a brushless DC motors or AC motors.



2P ducted unit



4P ducted unit

Dedicated control  
(as standard)



KJR-18B/E thermostat  
(KJR-18D/E for 4R)



Optional control



PCB  
connection set



Any  
other  
controller

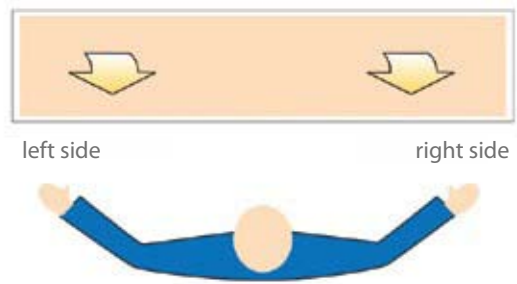
| Wireless remote controller<br>(STANDARD)          | Wired remote controller<br>(OPTION)                                  | Central controller<br>(OPTION) | Advanced control system<br>(OPTION) |
|---------------------------------------------------|----------------------------------------------------------------------|--------------------------------|-------------------------------------|
| R51/E (AC)<br>R05/BGE (DC) (required FCUKZ-03/04) | KJR-18B/E (2R)<br>KJR-18D-E (4R)<br>KJRP-86A1-E<br>KJR-21B/D (z AEH) | CCM30                          | LonGW64/E<br>CCM08<br>CCM18<br>IMM  |

### QUIET OPERATION + HIGH PERFORMANCE

With use of the brushless DC motors units operate efficiently at low current consumption, at the same time emitting low noise level, what results in increased room comfort. Ducted units are additionally equipped with a high performance cross-flow exchanger.

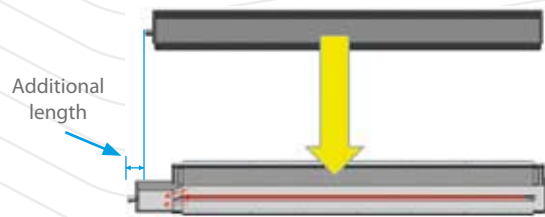
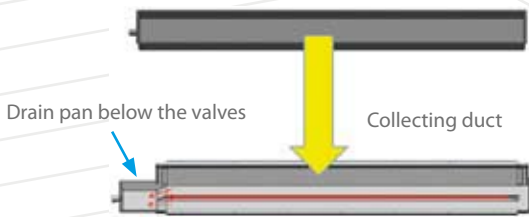
### EASE OF INSTALLATION

Installation can be connected both from right and left side - this allows to fit the fan-coil to any installation conditions.



### EXTENDED CONDENSATE COLLECTION TRAY

In order to avoid the “dripping” phenomenon, the fan-coil features an extended “V” typ drain pan, which collects water from connection pipes and installed valves more efficiently.



### FRESH AND CLEAN AIR

User comfort can be improved by supplying fresh air to a duct. Standard filter installed on the air inlet as well as the plenum provide initial air filtration.

## 2-ROW HEAT EXCHANGER - 2-PIPE SYSTEM - DC VERSION

| NXKT2 model          |                                    |                        |                   | V200                            | V300           | V400           | V500           |
|----------------------|------------------------------------|------------------------|-------------------|---------------------------------|----------------|----------------|----------------|
| Airflow              |                                    | high/mid/low           | m <sup>3</sup> /h | 439/295/221                     | 615/439/310    | 792/622/413    | 887/620/443    |
| Static pressure      |                                    |                        | Pa                | standard 12Pa, optional 30/50Pa |                |                |                |
| Cooling              | Capacity                           | high/mid/low           | kW                | 2.02/1.52/1.17                  | 2.82/2.33/1.79 | 3.31/2.78/2.14 | 3.83/3.16/2.55 |
|                      | Flow of water                      |                        | l/h               | 370                             | 510            | 590            | 680            |
|                      | Water pressure drop                |                        | kPa               | 6,3                             | 14.16          | 19.37          | 23.7           |
| Heating <sup>1</sup> | Capacity                           | high/mid/low           | kW                | 2.57/1.89/1.47                  | 3.56/2.8/2.08  | 4.19/3.42/2.49 | 4.84/3.9/3.01  |
|                      | Flow of water                      |                        | l/h               | 470                             | 620            | 720            | 840            |
|                      | Water pressure drop                |                        | kPa               | 5,64                            | 10,54          | 16,2           | 19,9           |
| Heating <sup>2</sup> | Capacity                           | high/mid/low           | kW                | 2.98/2.22/1.73                  | 4.12/3.26/2.39 | 4.91/4.1/3.02  | 5.6/4.49/3.45  |
|                      | Flow of water                      |                        | l/h               | 370                             | 510            | 590            | 680            |
|                      | Water pressure drop                |                        | kPa               | 7.91                            | 15.39          | 23             | 29.04          |
| Power supply         |                                    |                        | V/Ph/Hz           | 220-240/1/50                    |                |                |                |
| Power input          |                                    | high/mid/low           | W                 | 18/9/6                          | 21/12/7        | 29/16/9        | 42/20/11       |
| Sound pressure level |                                    | high/mid/low           | dB(A)             | 40/30/21                        | 39/32/23       | 41/35/27       | 44/37/30       |
| Fan motor            | Type                               |                        |                   | DC                              | DC             | DC             | DC             |
| Heat exchanger       | No. of rows                        |                        |                   | 2                               | 2              | 2              | 2              |
|                      | Max. operating pressure            |                        |                   | MPa                             | 1.6            | 1.6            | 1.6            |
| Unit                 | Dimensions                         | width x height x depth | mm                | 741x241x522                     | 841x241x522    | 941x241x522    | 941x241x522    |
|                      | Weight                             |                        |                   | kg                              | 16.5           | 18.5           | 20             |
| Connections          | Hydraulic connections inlet/outlet |                        | cal               | GD3/4                           |                |                |                |
|                      | Drainage                           |                        | mm                | ODø24                           |                |                |                |

| NXKT2 model          |                                    |                        |                   | V600                            | V800           | V1000           | V1200            |
|----------------------|------------------------------------|------------------------|-------------------|---------------------------------|----------------|-----------------|------------------|
| Airflow              |                                    | high/mid/low           | m <sup>3</sup> /h | 1081/821/586                    | 1492/1071/797  | 1824/1332/906   | 2327/1669/1135   |
| Static pressure      |                                    |                        | Pa                | standard 12Pa, optional 30/50Pa |                |                 |                  |
| Cooling              | Capacity                           | high/mid/low           | kW                | 4.78/4.01/3.09                  | 6.7/5.49/4.45  | 7.92/6.62/5.15  | 9.83/8.5/6.46    |
|                      | Flow of water                      |                        | l/h               | 850                             | 1190           | 1430            | 1740             |
|                      | Water pressure drop                |                        | kPa               | 14.2                            | 15.1           | 23.2            | 50.33            |
| Heating <sup>1</sup> | Capacity                           | high/mid/low           | kW                | 6.25/5.17/4.03                  | 8.39/6.64/5.2  | 9.92/7.94/5.86  | 12.58/10.24/7.57 |
|                      | Flow of water                      |                        | l/h               | 1100                            | 1460           | 1690            | 2170             |
|                      | Water pressure drop                |                        | kPa               | 13.36                           | 13.26          | 19.72           | 38.3             |
| Heating <sup>2</sup> | Capacity                           | high/mid/low           | kW                | 7.19/5.92/4.55                  | 9.87/7.83/6.29 | 11.63/9.37/6.96 | 14.58/11.82/8.83 |
|                      | Flow of water                      |                        | l/h               | 850                             | 1190           | 1430            | 1740             |
|                      | Water pressure drop                |                        | kPa               | 19.88                           | 19.36          | 26.68           | 60.7             |
| Power supply         |                                    |                        | V/Ph/Hz           | 220-240/1/50                    |                |                 |                  |
| Power input          |                                    | high/mid/low           | W                 | 53/25/12                        | 62/28/16       | 93/42/19        | 111/53/24        |
| Sound pressure level |                                    | high/mid/low           | dB(A)             | 46/39/30                        | 47/39/31       | 50/43/33        | 51/44/35         |
| Fan motor            | Type                               |                        |                   | DC                              | DC             | DC              | DC               |
| Heat exchanger       | No. of rows                        |                        |                   | 2                               | 2              | 2               | 2                |
|                      | Max. operating pressure            |                        |                   | MPa                             | 1.6            | 1.6             | 1.6              |
| Unit                 | Dimensions                         | width x height x depth | mm                | 1161x241x522                    | 1461x241x522   | 1566x241x522    | 1856x241x522     |
|                      | Weight                             |                        |                   | kg                              | 22.2           | 31.4            | 32.5             |
| Connections          | Hydraulic connections inlet/outlet |                        | cal               | GD3/4                           |                |                 |                  |
|                      | Drainage                           |                        | mm                | ODø24                           |                |                 |                  |

### Notes:

- Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating<sup>1</sup>: water inlet temperature 45°C, air inlet temperature 20°CDB.  
Conditions for heating<sup>2</sup>: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
- Noise level measured in a semi-anechoic chamber.



### 3-ROW HEAT EXCHANGER - 2-PIPE SYSTEM - DC VERSION

| NXKT3 model          |                                    |                        | V200                            | V300           | V400           | V500           |                |
|----------------------|------------------------------------|------------------------|---------------------------------|----------------|----------------|----------------|----------------|
| Airflow              | high/mid/low                       | m <sup>3</sup> /h      | 411/273/205                     | 596/442/311    | 734/564/389    | 865/626/441    |                |
| Static pressure      |                                    | Pa                     | standard 12Pa, optional 30/50Pa |                |                |                |                |
| Cooling              | Capacity                           | high/mid/low           | kW                              | 2.35/1.72/1.32 | 3.12/2.72/2.1  | 3.99/3.26/2.5  | 4.46/3.59/2.83 |
|                      | Flow of water                      |                        | l/h                             | 430            | 600            | 690            | 790            |
|                      | Water pressure drop                |                        | kPa                             | 13.6           | 23.8           | 13             | 16.4           |
| Heating <sup>1</sup> | Capacity                           | high/mid/low           | kW                              | 2.68/1.99/1.42 | 3.82/3.08/2.28 | 4.7/3.85/2.77  | 5.27/4.21/3.21 |
|                      | Flow of water                      |                        | l/h                             | 490            | 670            | 820            | 920            |
|                      | Water pressure drop                |                        | kPa                             | 12.6           | 25             | 13             | 18.4           |
| Heating <sup>2</sup> | Capacity                           | high/mid/low           | kW                              | 3.17/2.27/1.75 | 4.51/3.61/2.71 | 5.52/4.55/3.27 | 6.26/4.99/3.81 |
|                      | Flow of water                      |                        | l/h                             | 430            | 600            | 690            | 790            |
|                      | Water pressure drop                |                        | kPa                             | 10.3           | 19.2           | 10.8           | 13.7           |
| Power supply         |                                    | V/Ph/Hz                | 220-240/1/50                    |                |                |                |                |
| Power input          | high/mid/low                       | W                      | 17/9/6                          | 20/12/7        | 26/15/9        | 39/19/11       |                |
| Sound pressure level | high/mid/low                       | dB(A)                  | 38/28/21                        | 38/32/25       | 40/33/26       | 44/36/29       |                |
| Fan motor            | Type                               |                        | DC                              | DC             | DC             | DC             |                |
| Heat exchanger       | No. of rows                        |                        | 3                               | 3              | 3              | 3              |                |
|                      | Max. operating pressure            |                        | MPa                             | 1.6            | 1.6            | 1.6            | 1.6            |
| Unit                 | Dimensions                         | width x height x depth | mm                              | 741x241x522    | 841x241x522    | 941x241x522    | 941x241x522    |
|                      | Weight                             |                        | kg                              | 16.7           | 19             | 21             | 21             |
| Connections          | Hydraulic connections inlet/outlet |                        | cal                             | GD3/4          |                |                |                |
|                      | Drainage                           |                        | mm                              | ODø24          |                |                |                |

| NXKT3 model          |                                    |                        | V600                            | V800           | V1000           | V1200            |                  |
|----------------------|------------------------------------|------------------------|---------------------------------|----------------|-----------------|------------------|------------------|
| Airflow              | high/mid/low                       | m <sup>3</sup> /h      | 1022/760/544                    | 1452/1038/781  | 1824/1332/906   | 2134/1581/1083   |                  |
| Static pressure      |                                    | Pa                     | standard 12Pa, optional 30/50Pa |                |                 |                  |                  |
| Cooling              | Capacity                           | high/mid/low           | kW                              | 5.85/4.82/3.78 | 8.02/6.36/5.08  | 8.96/7.37/5.66   | 10.79/8.86/6.79  |
|                      | Flow of water                      |                        | l/h                             | 1050           | 1420            | 1590             | 1930             |
|                      | Water pressure drop                |                        | kPa                             | 31.4           | 31.6            | 24.1             | 26.3             |
| Heating <sup>1</sup> | Capacity                           | high/mid/low           | kW                              | 6.62/5.38/4    | 9.15/7.08/5.58  | 10.74/8.55/6.35  | 12.62/10.15/7.47 |
|                      | Flow of water                      |                        | l/h                             | 1150           | 1590            | 1880             | 2230             |
|                      | Water pressure drop                |                        | kPa                             | 31.7           | 32.9            | 28.3             | 29.4             |
| Heating <sup>2</sup> | Capacity                           | high/mid/low           | kW                              | 7.84/6.35/4.81 | 10.88/8.46/6.68 | 12.61/10.04/7.35 | 14.9/11.92/8.89  |
|                      | Flow of water                      |                        | l/h                             | 1050           | 1420            | 1590             | 1930             |
|                      | Water pressure drop                |                        | kPa                             | 26.4           | 26.3            | 21.1             | 22.6             |
| Power supply         |                                    | V/Ph/Hz                | 220-240/1/50                    |                |                 |                  |                  |
| Power input          | high/mid/low                       | W                      | 49/24/12                        | 60/28/16       | 96/43/19        | 106/49/21        |                  |
| Sound pressure level | high/mid/low                       | dB(A)                  | 45/37/30                        | 46/37/30       | 50/42/33        | 50/42/33         |                  |
| Fan motor            | Type                               |                        | DC                              | DC             | DC              | DC               |                  |
| Heat exchanger       | No. of rows                        |                        | 2                               | 2              | 2               | 2                |                  |
|                      | Max. operating pressure            |                        | MPa                             | 1.6            | 1.6             | 1.6              | 1.6              |
| Unit                 | Dimensions                         | width x height x depth | mm                              | 1161x241x522   | 1461x241x522    | 1566x241x522     | 1856x241x522     |
|                      | Weight                             |                        | kg                              | 23.7           | 33              | 34.7             | 39.2             |
| Connections          | Hydraulic connections inlet/outlet |                        | cal                             | GD3/4          |                 |                  |                  |
|                      | Drainage                           |                        | mm                              | ODø24          |                 |                  |                  |

## Notes:

- Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating<sup>1</sup>: water inlet temperature 45°C, air inlet temperature 20°CDB.  
Conditions for heating<sup>2</sup>: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
- Noise level measured in a semi-anechoic chamber.



### 3-ROW HEAT EXCHANGER - 4-PIPE SYSTEM - DC VERSION

| NXKT3 model          |                                    |                        | V200F                           | V300F       | V400F       | V500F       |                |
|----------------------|------------------------------------|------------------------|---------------------------------|-------------|-------------|-------------|----------------|
| Airflow              | high/mid/low                       | m <sup>3</sup> /h      | 320/210/140                     | 450/340/280 | 530/390/260 | 690/470/370 |                |
| Static pressure      |                                    | Pa                     | standard 12Pa, optional 30/50Pa |             |             |             |                |
| Cooling              | Capacity                           | high/mid/low           | kW                              | 1.4/1.1/0.8 | 2.2/1.7/1.5 | 2.5/2.0/1.5 | 4.46/3.59/2.83 |
|                      | Flow of water                      |                        | l/h                             | 270         | 380         | 470         | 790            |
|                      | Water pressure drop                |                        | kPa                             | 10.2        | 10.5        | 11.3        | 16.4           |
| Heating              | Capacity                           | high/mid/low           | kW                              | 2.1/1.7/1.4 | 3.0/2.6/2.1 | 3.7/3.2/2.5 | 5.27/4.21/3.21 |
|                      | Flow of water                      |                        | l/h                             | 270         | 380         | 470         | 920            |
|                      | Water pressure drop                |                        | kPa                             | 8.9         | 9.1         | 10.1        | 18.4           |
| Power supply         |                                    | V/Ph/Hz                | 220-240/1/50                    |             |             |             |                |
| Power input          |                                    | W                      | 16                              | 21          | 28          | 36          |                |
| Sound pressure level |                                    | high/mid/low           | dB(A)                           | 38/28/21    | 38/32/25    | 40/33/26    | 44/36/29       |
| Fan motor            | Type                               |                        | DC                              | DC          | DC          | DC          |                |
| Heat exchanger       | No. of rows                        |                        | 3                               | 3           | 3           | 3           |                |
|                      | Max. operating pressure            |                        | MPa                             | 1.6         | 1.6         | 1.6         | 1.6            |
| Unit                 | Dimensions                         | width x height x depth | mm                              | 741×241×522 | 841×241×522 | 941×241×522 | 941×241×522    |
|                      | Weight                             |                        | kg                              | 16.7        | 19          | 21          | 21             |
| Connections          | Hydraulic connections inlet/outlet |                        | cal                             | GD3/4       |             |             |                |
|                      | Drainage                           |                        | mm                              | ODø24       |             |             |                |

| NXKT3 model          |                                    |                        | V600F                           | V800F                               | V1000F        | V1200F        |              |
|----------------------|------------------------------------|------------------------|---------------------------------|-------------------------------------|---------------|---------------|--------------|
| Airflow              | high/mid/low                       | m <sup>3</sup> /h      | 900/670/440                     | 1240/840/670                        | 1610/1160/790 | 1850/1400/970 |              |
| Static pressure      |                                    | Pa                     | standard 12Pa, optional 30/50Pa |                                     |               |               |              |
| Cooling              | Capacity                           | high/mid/low           | kW                              | 4.2/3.5/2.5                         | 5.3/4.1/3.1   | 6.7/5.4/3.9   | 8.2/6.5/4.6  |
|                      | Flow of water                      |                        | l/h                             | 730                                 | 930           | 1180          | 1400         |
|                      | Water pressure drop                |                        | kPa                             | 15.3                                | 12.8          | 21.6          | 34.9         |
| Heating              | Capacity                           | high/mid/low           | kW                              | 5.7/4.8/3.4                         | 6.8/5.5/4.6   | 8.2/6.9/5.2   | 10.1/8.6/6.8 |
|                      | Flow of water                      |                        | l/h                             | 730                                 | 930           | 1180          | 1400         |
|                      | Water pressure drop                |                        | kPa                             | 12.7                                | 12            | 15.5          | 25.73        |
| Power supply         |                                    | V/Ph/Hz                | 220-240/1/50                    |                                     |               |               |              |
| Power input          |                                    | W                      | 45                              | 57                                  | 87            | 95            |              |
| Sound pressure level |                                    | high/mid/low           | dB(A)                           | 46/39/30                            | 46/38/30      | 48/41/31      | 47/40/30     |
| Fan motor            | Type                               |                        | DC                              | DC                                  | DC            | DC            |              |
| Heat exchanger       | No. of rows                        |                        | 3                               | 3                                   | 3             | 3             |              |
|                      | Max. operating pressure            |                        | MPa                             | 1.6                                 | 1.6           | 1.6           | 1.6          |
| Unit                 | Dimensions                         | width x height x depth | mm                              | 1161×241×522                        | 1461×241×522  | 1566×241×522  | 1856×241×522 |
|                      | Weight                             |                        | kg                              | 24.2                                | 33.5          | 35.2          | 39.7         |
| Connections          | Hydraulic connections inlet/outlet |                        | cal                             | cold water: RC3/4; hot water: RC3/4 |               |               |              |
|                      | Drainage                           |                        | mm                              | ODø24                               |               |               |              |

## Notes:

- Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
- Noise level measured in a semi-anechoic chamber.

## 2-ROW HEAT EXCHANGER - 2-PIPE SYSTEM - AC VERSION

| NXKT2 model                 |                                    |                        | 200G12<br>200G30                 | 300G12<br>300G30 | 400G12<br>400G30 | 500G12<br>500G30 | 600G12<br>600G30 |               |
|-----------------------------|------------------------------------|------------------------|----------------------------------|------------------|------------------|------------------|------------------|---------------|
| Airflow                     | high/mid/low                       | m <sup>3</sup> /h      | 340/255/170                      | 510/385/255      | 680/510/340      | 850/640/425      | 1020/765/510     |               |
| Static pressure             |                                    | Pa                     | model G12: 12Pa; model G30: 30Pa |                  |                  |                  |                  |               |
| Cooling                     | Capacity                           | high/mid/low           | kW                               | 2/1.74/1.52      | 2.7/2.31/2.03    | 3.6/3.11/2.66    | 4.4/3.74/3.25    | 5.5/4.58/4.09 |
|                             | Flow of water                      |                        | l/h                              | 344              | 464              | 619              | 757              | 946           |
|                             | Water pressure drop                |                        | kPa                              | 5                | 11               | 19               | 22               | 14            |
| Heating                     | Capacity                           | high/mid/low           | kW                               | 3.2/2.75/2.37    | 4.3/3.74/3.23    | 5.4/4.64/4.05    | 6.8/5.78/5.07    | 8.1/6.77/5.92 |
|                             | Water pressure drop                |                        | kPa                              | 4.2              | 9.5              | 15.5             | 18.3             | 11.8          |
| Power supply                |                                    | V/Ph/Hz                | 220-240/1/50                     |                  |                  |                  |                  |               |
| Power input                 | 12Pa                               |                        | W                                | 31               | 50               | 60               | 80               | 97            |
|                             | 30Pa                               |                        | W                                | 45               | 60               | 67               | 89               | 110           |
| Electric heater (version E) |                                    | W                      | 550                              | 650              | 1100             | 1100             | 1600             |               |
| Sound pressure level        | 12Pa                               | high/mid/low           | dB(A)                            | 36/34/29         | 38/33/29         | 38/35/31         | 39/36/32         | 40/36/33      |
|                             | 30Pa                               | high/mid/low           | dB(A)                            | 41/37/31         | 41/37/32         | 42/39/33         | 45/41/34         | 46/41/35      |
| Heat exchanger              | No. of rows                        |                        |                                  | 2                | 2                | 2                | 2                | 2             |
|                             | Max. operating pressure            |                        | MPa                              | 1.6              | 1.6              | 1.6              | 1.6              | 1.6           |
| Unit                        | Dimensions                         | width x height x depth | mm                               | 741x241x522      | 841x241x522      | 941x241x522      | 941x241x522      | 1161x241x522  |
|                             | Weight                             | */E                    | kg                               | 13.9/14.5        | 16.5/18          | 19.2/20.7        | 19.2/20.7        | 22/24         |
| Connections                 | Hydraulic connections inlet/outlet |                        | cal                              | GD3/4            |                  |                  |                  |               |
|                             | Drainage                           |                        | mm                               | ODø24            |                  |                  |                  |               |

### Notes:

1. Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
  2. Noise level measured in a semi-anechoic chamber.
- \* For units without heater, E - for units with heater.  
\* 2-pipe, 2-row units (AC) version with 12 Pa static pressure until stocks are exhausted.

### 3-ROW HEAT EXCHANGER - 2-PIPE SYSTEM - AC VERSION

| NXKT3 model                 |                                    |                        | 200G12<br>200G30                 | 300G12<br>300G30 | 400G12<br>400G30 | 500G12<br>500G30 | 600G12<br>600G30 |               |
|-----------------------------|------------------------------------|------------------------|----------------------------------|------------------|------------------|------------------|------------------|---------------|
| Airflow                     | high/mid/low                       | m <sup>3</sup> /h      | 340/255/170                      | 510/385/255      | 680/510/340      | 850/640/425      | 1020/765/510     |               |
| Static pressure             |                                    | Pa                     | model G12: 12Pa; model G30: 30Pa |                  |                  |                  |                  |               |
| Cooling                     | Capacity                           | high/mid/low           | kW                               | 2.2/1.9/1.68     | 3.1/2.7/2.3      | 4/3.4/2.95       | 4.6/3.96/3.45    | 5.8/4.88/4.45 |
|                             | Flow of water                      |                        | l/h                              | 378              | 533              | 688              | 791              | 998           |
|                             | Water pressure drop                |                        | kPa                              | 14               | 26               | 18               | 24               | 36            |
| Heating                     | Capacity                           | high/mid/low           | kW                               | 3.5/3.08/2.59    | 5.3/4.61/3.98    | 6.8/5.85/5.1     | 7.9/6.95/6       | 9.8/8.6/7.4   |
|                             | Water pressure drop                |                        | kPa                              | 10.5             | 21.8             | 16.9             | 22.3             | 31.6          |
| Power supply                |                                    | V/Ph/Hz                | 220-240/1/50                     |                  |                  |                  |                  |               |
| Power input                 | 12Pa                               |                        | W                                | 33               | 53               | 66               | 87               | 100           |
|                             | 30Pa                               |                        | W                                | 49               | 64               | 75               | 93               | 114           |
| Electric heater (version E) |                                    | W                      | 550                              | 650              | 1100             | 1100             | 1600             |               |
| Sound pressure level        | 12Pa                               | high/mid/low           | dB(A)                            | 35/32/26         | 36/33/27         | 37/34/28         | 40/36/30         | 42/38/32      |
|                             | 30Pa                               | high/mid/low           | dB(A)                            | 41/37/31         | 42/38/32         | 43/39/33         | 44/40/34         | 45/41/35      |
| Heat exchanger              | No. of rows                        |                        |                                  | 3                | 3                | 3                | 3                | 3             |
|                             | Max. operating pressure            |                        | MPa                              | 1.6              | 1.6              | 1.6              | 1.6              | 1.6           |
| Unit                        | Dimensions                         | width x height x depth | mm                               | 741x241x522      | 841x241x522      | 941x241x522      | 941x241x522      | 1161x241x522  |
|                             | Weight                             | * / E                  | kg                               | 14.6/16.1        | 17/18.5          | 20.2/21.7        | 20.2/21.7        | 23/25         |
| Connections                 | Hydraulic connections inlet/outlet |                        | cal                              | GD3/4            |                  |                  |                  |               |
|                             | Drainage                           |                        | mm                               | ODø24            |                  |                  |                  |               |

## Notes:

- Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
- Noise level measured in a semi-anechoic chamber.

\* For units without heater, E - for units with heater.

### 3-ROW HEAT EXCHANGER - 4-PIPE SYSTEM - AC VERSION

| NXKT3 model          |                                    |                        | 200FG12<br>200FG30               | 300FG12<br>300FG30 | 400FG12<br>400FG30 |               |
|----------------------|------------------------------------|------------------------|----------------------------------|--------------------|--------------------|---------------|
| Airflow              | high/mid/low                       | m <sup>3</sup> /h      | 340/255/170                      | 510/385/255        | 680/510/340        |               |
| Static pressure      |                                    | Pa                     | model G12: 12Pa; model G30: 30Pa |                    |                    |               |
| Cooling              | Capacity                           | high/mid/low           | kW                               | 2/1.76/1.52        | 2.7/2.35/2.13      | 3.6/3.15/2.76 |
|                      | Flow of water                      |                        | l/h                              | 344                | 464                | 619           |
|                      | Water pressure drop                |                        | kPa                              | 7.6                | 14.4               | 8.2           |
| Heating              | Capacity                           | high/mid/low           | kW                               | 3/2.64/2.22        | 4/3.48/3           | 5.2/4.47/3.9  |
|                      | Flow of water                      |                        | l/h                              | 258                | 344                | 447           |
|                      | Water pressure drop                |                        | kPa                              | 6.8                | 12.5               | 23.5          |
| Power supply         |                                    | V/Ph/Hz                | 220-240/1/50                     |                    |                    |               |
| Power input          | 12Pa                               |                        | W                                | 33                 | 53                 | 66            |
|                      | 30Pa                               |                        | W                                | 49                 | 64                 | 75            |
| Sound pressure level | 12Pa                               | high/mid/low           | dB(A)                            | 35/32/26           | 36/33/27           | 37/34/28      |
|                      | 30Pa                               | high/mid/low           | dB(A)                            | 41/37/31           | 42/38/32           | 43/39/33      |
| Heat exchanger       | No. of rows                        |                        |                                  | 3                  | 3                  | 3             |
|                      | Max. operating pressure            |                        | MPa                              | 1.6                | 1.6                | 1.6           |
| Unit                 | Dimensions                         | width x height x depth | mm                               | 741x241x522        | 841x241x522        | 941x241x522   |
|                      | Weight                             |                        | kg                               | 15.1               | 17.5               | 20.7          |
| Connections          | Hydraulic connections inlet/outlet |                        | cal                              | RC3/4              |                    |               |
|                      | Drainage                           |                        | mm                               | ODø24              |                    |               |

| NXKT3 model          |                                    |                        | 500FG12<br>500FG30               | 600FG12<br>600FG30 | 800FG12<br>800FG30 |               |
|----------------------|------------------------------------|------------------------|----------------------------------|--------------------|--------------------|---------------|
| Airflow              | high/mid/low                       | m <sup>3</sup> /h      | 850/640/425                      | 1020/765/510       | 1360/1020/680      |               |
| Static pressure      |                                    | Pa                     | model G12: 12Pa; model G30: 30Pa |                    |                    |               |
| Cooling              | Capacity                           | high/mid/low           | kW                               | 4.3/3.74/3.32      | 5/4.32/3.84        | 6.8/5.78/5.11 |
|                      | Flow of water                      |                        | l/h                              | 740                | 860                | 1170          |
|                      | Water pressure drop                |                        | kPa                              | 9.5                | 17.2               | 18.8          |
| Heating              | Capacity                           | high/mid/low           | kW                               | 5.7/5.02/4.33      | 7.2/6.19/5.33      | 9.6/8.45/7.2  |
|                      | Flow of water                      |                        | l/h                              | 490                | 619                | 826           |
|                      | Water pressure drop                |                        | kPa                              | 24                 | 40.7               | 20.7          |
| Power supply         |                                    | V/Ph/Hz                | 220-240/1/50                     |                    |                    |               |
| Power input          | 12Pa                               |                        | W                                | 87                 | 100                | 145           |
|                      | 30Pa                               |                        | W                                | 96                 | 114                | 154           |
| Sound pressure level | 12Pa                               | high/mid/low           | dB(A)                            | 40/36/30           | 42/38/32           | 43/39/33      |
|                      | 30Pa                               | high/mid/low           | dB(A)                            | 44/40/34           | 45/41/35           | 46/42/36      |
| Heat exchanger       | No. of rows                        |                        |                                  | 3                  | 3                  | 3             |
|                      | Max. operating pressure            |                        | MPa                              | 1.6                | 1.6                | 1.6           |
| Unit                 | Dimensions                         | width x height x depth | mm                               | 941x241x522        | 1161x241x522       | 1461x241x522  |
|                      | Weight                             |                        | kg                               | 20.7               | 23.5               | 32.4          |
| Connections          | Hydraulic connections inlet/outlet |                        | cal                              | RC3/4              |                    |               |
|                      | Drainage                           |                        | mm                               | ODø24              |                    |               |

Notes:

1. Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
  2. Noise level measured in a semi-anechoic chamber.
- \* For units without heater, E - for units with heater.  
\* 2-pipe NXKT3 units (AC) version, models 800; 1000; 1200; 1400 until stocks are exhausted.

| NXKT3 model          |                                    |                        | 1000FG12<br>1000FG30             | 1200FG12<br>1200FG30 | 1400FG30         |                  |
|----------------------|------------------------------------|------------------------|----------------------------------|----------------------|------------------|------------------|
| Airflow              | high/mid/low                       | m <sup>3</sup> /h      | 1700/1275/850                    | 2040/1530/1020       | 2380/1785/1190   |                  |
| Static pressure      |                                    | Pa                     | model G12: 12Pa; model G30: 30Pa |                      |                  |                  |
| Cooling              | Capacity                           | high/mid/low           | kW                               | 7.8/6.74/5.88        | 10.2/8.89/7.85   | 11.5/9.9/8.86    |
|                      | Flow of water                      |                        | l/h                              | 1342                 | 1754             | 1978             |
|                      | Water pressure drop                |                        | kPa                              | 30                   | 40.3             | 51.9             |
| Heating              | Capacity                           | high/mid/low           | kW                               | 10.8/9.61/8.1        | 13.5/12.15/10.26 | 15.5/13.48/11.78 |
|                      | Flow of water                      |                        | l/h                              | 929                  | 1161             | 1333             |
|                      | Water pressure drop                |                        | kPa                              | 34.7                 | 28.6             | 55.2             |
| Power supply         |                                    | V/Ph/Hz                | 220-240/1/50                     |                      |                  |                  |
| Power input          | 12Pa                               |                        | W                                | 180                  | 210              | 222              |
|                      | 30Pa                               |                        | W                                | 193                  | 230              | 278              |
| Sound pressure level | 12Pa                               | high/mid/low           | dB(A)                            | 45/41/35             | 46/42/36         | 48/44/38         |
|                      | 30Pa                               | high/mid/low           | dB(A)                            | 47/43/37             | 48/44/38         | 49/45/39         |
| Heat exchanger       | No. of rows                        |                        |                                  | 3                    | 3                | 3                |
|                      | Max. operating pressure            |                        | MPa                              | 1.6                  | 1.6              | 1.6              |
| Unit                 | Dimensions                         | width x height x depth | mm                               | 1566x241x522         | 1856x241x522     | 2022x241x522     |
|                      | Weight                             |                        | kg                               | 34.9                 | 40               | 43.6             |
| Connections          | Hydraulic connections inlet/outlet |                        | cal                              | RC3/4                |                  |                  |
|                      | Drainage                           |                        | mm                               | ODø24                |                  |                  |

## Notes:

1. Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
2. Noise level measured in a semi-anechoic chamber.

# WALL-MOUNTED FAN-COIL UNITS



Wall-mounted "S" type unit



Wall-mounted "C" type unit



Wall-mounted "C" type unit

## GENERAL INFO

Wall-mounted fan-coil units, designed for horizontal installation for 2-pipe systems. Equipped with a double intake, centrifugal fan. Units are

available with brushless DC motors or AC motors. They are supplied with 3-way valves.



Compact cassette unit

Dedicated control  
(as standard)

Optional control



R51/E



R05/BGE



KJR-29B/BK-E



KJR-12B/DP(T)-E

| Wireless remote controller<br>(STANDARD) | Wired remote controller<br>(OPTION) | Central controller<br>(OPTION) | Advanced control system<br>(OPTION) |
|------------------------------------------|-------------------------------------|--------------------------------|-------------------------------------|
| R05/BGE                                  | KJR-12B/DP(T)-E<br>KJR-29B/BK-E     | CCM30                          | LonGW64/E<br>CCM08<br>CCM18<br>IMM  |



## VARIETY OF CHOICE OF PANELS

The stylish front panel perfectly matches all kinds of interior design, ideal for use in stores, restaurants and offices, with or without a dropped ceiling, with restricted installation space.

## EASY INSTALLATION

Installation can be connected from left or right side and also from the back of the unit - this enables adjustment of fan-coil position to any installation conditions.

## EASY ACCESS AND SERVICE

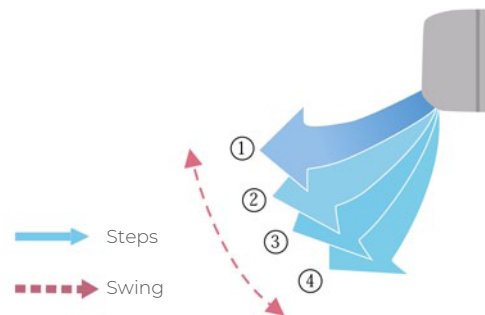
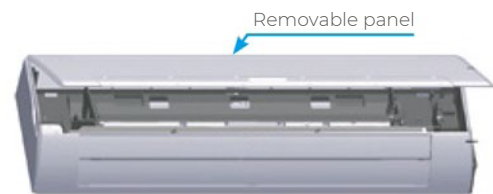
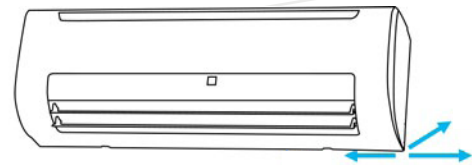
Removable front panel facilitates unit maintenance and servicing.

## SWING FUNCTION

Auto Swing function enables setting the satisfactory airflow direction, matching the selected operation mode.

## QUIET OPERATION + HIGH PERFORMANCE

With use of the brushless DC motors units operate efficiently at low current consumption, at the same time emitting low noise level, what results in increased room comfort.



## S TYPE - 2-PIPE SYSTEM - DC VERSION

| NXKG model           |                                    |                        |                   | V250B          | V300B          | V400B          | V500B          | V600B          |
|----------------------|------------------------------------|------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|
| Airflow              |                                    | high/mid/low           | m <sup>3</sup> /h | 492/454/400    | 585/485/413    | 825/689/590    | 862/741/634    | 979/849/717    |
| Cooling              | Capacity                           | high/mid/low           | kW                | 2.7/2.59/2.39  | 2.91/2.54/2.19 | 3.81/3.3/2.881 | 4.47/3.98/3.48 | 4.87/4.26/3.79 |
|                      | Flow of water                      |                        | l/h               | 480            | 510            | 670            | 770            | 850            |
|                      | Water pressure drop                |                        | kPa               | 31.61          | 37.2           | 56.75          | 41.17          | 50.68          |
| Heating <sup>1</sup> | Capacity                           | high/mid/low           | kW                | 2.94/2.8/2.58  | 3.23/2.77/2.42 | 4.3/3.65/3.09  | 4.84/4.23/3.62 | 5.26/4.68/3.96 |
|                      | Flow of water                      |                        | l/h               | 510            | 560            | 730            | 840            | 890            |
|                      | Water pressure drop                |                        | kPa               | 32.66          | 34.12          | 51.86          | 36.82          | 47.12          |
| Heating <sup>2</sup> | Capacity                           | high/mid/low           | kW                | 3.29/3.03/2.63 | 3.76/3.22/2.77 | 5.08/4.33/3.77 | 5.68/4.94/4.24 | 6.31/5.57/4.77 |
|                      | Flow of water                      |                        | l/h               | 480            | 510            | 670            | 770            | 850            |
|                      | Water pressure drop                |                        | kPa               | 37,49          | 40,64          | 61,94          | 43,74          | 51,65          |
| Power supply         |                                    |                        | V/Ph/Hz           | 220-240/1/50   |                |                |                |                |
| Power input          |                                    | high/mid/low           | W                 | 13/11/10       | 15/11/9        | 34/22/15       | 26/18/13       | 38/26/18       |
| Sound pressure level |                                    | high/mid/low           | dB(A)             | 32/30/27       | 32/27/23       | 45/39/35       | 38/34/30       | 44/40/35       |
| Fan motor            | Type                               |                        |                   | DC             | DC             | DC             | DC             | DC             |
| Heat exchanger       | No. of rows                        |                        |                   | 2              | 2              | 2              | 2              | 2              |
|                      | Max. operating pressure            |                        | MPa               | 1.6            | 1.6            | 1.6            | 1.6            | 1.6            |
| Unit                 | Dimensions                         | width x height x depth | mm                | 915x290x230    | 915x290x230    | 915x290x230    | 1072x315x230   | 1072x315x230   |
|                      | Weight                             |                        | kg                | 12.7           | 12.7           | 12.7           | 15.1           | 14.9           |
| Connections          | Hydraulic connections inlet/outlet |                        | cal               | RC3/4          |                |                |                |                |
|                      | Drainage                           |                        | mm                | ODø32          |                |                |                |                |

### Notes:

- Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating<sup>1</sup>: water inlet temperature 45°C, air inlet temperature 20°CDB.  
Conditions for heating<sup>2</sup>: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
- Noise level measured in a semi-anechoic chamber.

## C TYPE - 2-PIPE SYSTEM - DC VERSION

| NXKG model           |                                    |                        |                   | V250           | V300           | V400           | V500           | V600           |
|----------------------|------------------------------------|------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|
| Airflow              |                                    | high/mid/low           | m <sup>3</sup> /h | 425/410/320    | 510/427/349    | 680/550/504    | 850/692/586    | 1020/820/670   |
| Cooling              | Capacity                           | high/mid/low           | kW                | 2.2/2.2/1.97   | 2.64/2.48/2.06 | 3.08/2.9/2.66  | 4.07/3.78/3.05 | 4.45/3.95/3.21 |
|                      | Flow of water                      |                        | l/h               | 378            | 454            | 530            | 700            | 765            |
|                      | Water pressure drop                |                        | kPa               | 23.1           | 33.6           | 42             | 34.9           | 36.3           |
| Heating              | Capacity                           | high/mid/low           | kW                | 3.02/2.85/2.35 | 3.69/2.92/2.49 | 4.34/3.77/3.35 | 5.69/4.14/3.63 | 6.30/5.17/4.18 |
|                      | Flow of water                      |                        | l/h               | 378            | 454            | 530            | 700            | 765            |
|                      | Water pressure drop                |                        | kPa               | 22             | 31.4           | 40             | 29.7           | 32.8           |
| Power supply         |                                    |                        | V/Ph/Hz           | 220-240/1/50   |                |                |                |                |
| Power input          |                                    |                        | W                 | 13/11/10       | 15/11/9        | 34/22/15       | 26/18/13       | 38/26/18       |
| Sound pressure level |                                    | high/mid/low           | dB(A)             | 32/26/23       | 32/28/25       | 36/32/29       | 38/34/30       | 40/36/31       |
| Heat exchanger       | No. of rows                        |                        |                   | 2              | 2              | 2              | 2              | 2              |
|                      | Max. operating pressure            |                        | MPa               | 1.6            | 1.6            | 1.6            | 1.6            | 1.6            |
| Unit                 | Dimensions                         | width x height x depth | mm                | 915x290x230    | 915x290x230    | 915x290x230    | 1070x315x230   | 1070x315x230   |
|                      | Weight                             |                        | kg                | 12             | 12             | 12             | 14.7           | 14.8           |
| Connections          | Hydraulic connections inlet/outlet |                        | cal               | RC3/4          |                |                |                |                |
|                      | Drainage                           |                        | mm                | ODø20          |                |                |                |                |

### Notes:

- Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
- Noise level measured in a semi-anechoic chamber.

## S TYPE - 2-PIPE SYSTEM - AC VERSION

| NXKG model           |                                    |                        |                   | 250           | 300            | 400            | 500            | 600            |
|----------------------|------------------------------------|------------------------|-------------------|---------------|----------------|----------------|----------------|----------------|
| Airflow              |                                    | high/mid/low           | m <sup>3</sup> /h | 425/360/320   | 510/430/380    | 680/580/510    | 850/720/640    | 1020/870/770   |
| Cooling              | Capacity                           | high/mid/low           | kW                | 2.2/1.84/1.65 | 2.64/2.24/2.05 | 3.08/2.62/2.27 | 4.07/3.73/3.24 | 4.45/4.18/3.74 |
|                      | Flow of water                      |                        | l/h               | 378           | 454            | 530            | 700            | 765            |
|                      | Water pressure drop                |                        | kPa               | 12            | 18             | 22             | 26             | 29             |
| Heating              | Capacity                           | high/mid/low           | kW                | 3.02/2.6/2.23 | 3.69/3.25/2.77 | 4.34/3.86/3.25 | 5.69/5.12/4.32 | 6.3/5.67/4.73  |
|                      | Flow of water                      |                        | l/h               | 10            | 16.4           | 20.8           | 25.1           | 27.9           |
|                      | Water pressure drop                |                        | kPa               | 22            | 31.4           | 40             | 29.7           | 32.8           |
| Power supply         |                                    |                        | V/Ph/Hz           | 220-240/1/50  |                |                |                |                |
| Power input          |                                    |                        | W                 | 13/11/10      | 15/11/9        | 34/22/15       | 26/18/13       | 38/26/18       |
| Sound pressure level |                                    | high/mid/low           | dB(A)             | 32/26/23      | 32/28/25       | 36/32/29       | 38/34/30       | 40/36/31       |
| Heat exchanger       | No. of rows                        |                        |                   | 2             | 2              | 2              | 2              | 2              |
|                      | Max. operating pressure            |                        | MPa               | 1.6           | 1.6            | 1.6            | 1.6            | 1.6            |
| Unit                 | Dimensions                         | width x height x depth | mm                | 915x210x290   | 915x210x290    | 915x210x290    | 1070x310x316   | 1070x210x316   |
|                      | Weight                             |                        | kg                | 12            | 12             | 12             | 15             | 15             |
| Connections          | Hydraulic connections inlet/outlet |                        | cal               | RC3/4         |                |                |                |                |
|                      | Drainage                           |                        | mm                | ODø20         |                |                |                |                |

### Notes:

- Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating: water inlet temperature 45°C, air inlet temperature 20°CDB.  
Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
- Noise level measured in a semi-anechoic chamber.

## C TYPE - 2-PIPE SYSTEM - AC VERSION

| NXKG model           |                                    |                        |                   | 250-B          | 300-B          | 400-B          | 500-B          | 600-B        |
|----------------------|------------------------------------|------------------------|-------------------|----------------|----------------|----------------|----------------|--------------|
| Airflow              |                                    | high/mid/low           | m <sup>3</sup> /h | 425/390/350    | 510/470/390    | 680/550/460    | 850/745/620    | 1020/915/780 |
| Cooling              | Capacity                           | high/mid/low           | kW                | 2.63/2.41/2.16 | 2.97/2.47/2.12 | 3.28/2.83/2.41 | 4.25/3.85/3.32 | 5/4.47/3.97  |
|                      | Flow of water                      |                        | l/h               | 452            | 511            | 564            | 731            | 860          |
|                      | Water pressure drop                |                        | kPa               | 29.4           | 35.6           | 43.5           | 31.8           | 42.5         |
| Heating              | Capacity                           | high/mid/low           | kW                | 3.36/3.1/2.79  | 3.91/3.26/2.77 | 4.37/3.73/3.17 | 5.81/5.17/4.43 | 6.7/6/5.28   |
|                      | Flow of water                      |                        | l/h               | 27.3           | 32.9           | 40.8           | 30.2           | 39.7         |
|                      | Water pressure drop                |                        | kPa               | 22             | 31.4           | 40             | 29.7           | 32.8         |
| Power supply         |                                    |                        | V/Ph/Hz           | 220-240/1/50   |                |                |                |              |
| Power input          |                                    |                        | W                 | 24             | 37             | 40             | 50             | 66           |
| Sound pressure level |                                    | high/mid/low           | dB(A)             | 30/24/20       | 35/29/24       | 37/31/26       | 39/33/28       | 40/34/29     |
| Heat exchanger       | No. of rows                        |                        |                   | 2              | 2              | 2              | 2              | 2            |
|                      | Max. operating pressure            |                        | MPa               | 1.6            | 1.6            | 1.6            | 1.6            | 1.6          |
| Unit                 | Dimensions                         | width x height x depth | mm                | 915x290x230    | 915x290x230    | 915x290x230    | 1072x315x230   | 1072x315x230 |
|                      | Weight                             |                        | kg                | 13             | 13             | 13.3           | 15.8           | 15.8         |
| Connections          | Hydraulic connections inlet/outlet |                        | cal               | RC3/4          |                |                |                |              |
|                      | Drainage                           |                        | mm                | ODø20          |                |                |                |              |

### Notes:

- Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
- Noise level measured in a semi-anechoic chamber.

# CEILING-FLOOR FAN-COIL UNITS



H3/F3 for concealed installation



H4/F4 - front air intake



H5/F5 - bottom air intake

## GENERAL INFO

Fan-coil units designed for horizontal and vertical installation. Two version available: ready for concealed installation and standard units with housing.



Standing 2P unit with housing

Dedicated control



Optional control



KJR-18B/E thermostat



KJR-15B/E thermostat



PCB connection set



Any other controller

| Wired remote controller (OPTION)                                          | Central controller (OPTION) | Advanced control system (OPTION)   |
|---------------------------------------------------------------------------|-----------------------------|------------------------------------|
| KJR-15B/E (dedicated)<br>KJR-18B/E (dedicated)<br>KJR-29B/BK-E (optional) | CCM30                       | LonGW64/E<br>CCM08<br>CCM18<br>IMM |

## EASY INSTALLATION

The choice of units in housing or intended for concealed installation, vertical or standing configuration, provides adjustment to any type of setup, according to specific expectations.



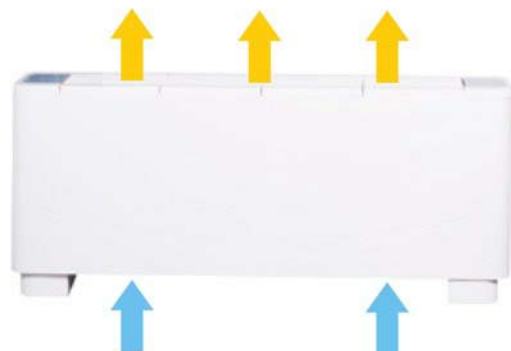
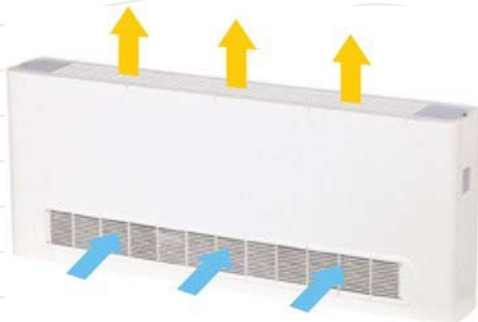
Suspended version



Standing version

## AIR INTAKE CONFIGURATION

Units are available with front or bottom air intake.



## H TYPE - 2-PIPE SYSTEM - DC VERSION

| NXKH3 model          |                                    |                               |         | V150           | V250           | V300           | V400           | V450           |
|----------------------|------------------------------------|-------------------------------|---------|----------------|----------------|----------------|----------------|----------------|
| Airflow              |                                    | high/mid/low                  | m³/h    | 267/201/153    | 369/272/196    | 560/407/319    | 604/448/343    | 678/492/383    |
| Cooling              | Capacity                           | high/mid/low                  | kW      | 1.63/1.23/0.96 | 2.07/1.52/1.07 | 2.97/2.39/1.82 | 3.25/2.63/2.12 | 4.57/3.35/2.62 |
|                      | Flow of water                      |                               | l/h     | 280            | 360            | 520            | 590            | 810            |
|                      | Water pressure drop                |                               | kPa     | 7.39           | 11.13          | 19.1           | 23.2           | 25.52          |
| Heating <sup>1</sup> | Capacity                           | high/mid/low                  | kW      | 1.71/1.29/0.98 | 2.39/1.76/1.3  | 3.3/2.54/1.87  | 3.62/2.82/2.17 | 4.66/3.38/2.57 |
|                      | Flow of water                      |                               | l/h     | 300            | 420            | 570            | 640            | 830            |
|                      | Water pressure drop                |                               | kPa     | 5.33           | 8.9            | 15.6           | 19.57          | 21.58          |
| Heating <sup>2</sup> | Capacity                           | high/mid/low                  | kW      | 2.02/1.52/1.22 | 2.78/2.07/1.42 | 3.92/3.08/2.24 | 4.37/3.34/2.63 | 5.52/3.98/3.03 |
|                      | Flow of water                      |                               | l/h     | 280            | 360            | 520            | 590            | 810            |
|                      | Water pressure drop                |                               | kPa     | 5,91           | 11,99          | 19,42          | 22,9           | 23,02          |
| Power supply         |                                    |                               | V/Ph/Hz | 220-240/1/50   |                |                |                |                |
| Power input          |                                    | high/mid/low                  | W       | 12/8/6         | 17/10/7        | 26/14/9        | 30/16/10       | 25/13/9        |
| Sound pressure level |                                    | high/mid/low                  | dB(A)   | 35/28/21       | 39/31/22       | 44/37/31       | 44/37/31       | 40/32/25       |
| Heat exchanger       | No. of rows                        |                               |         | 3              | 3              | 3              | 2              | 2              |
|                      | Max. operating pressure            |                               | MPa     | 1.6            | 1.6            | 1.6            | 1.6            | 1.6            |
| Unit                 | Dimensions                         | H3: width x height x depth    | mm      | 550x545x212    | 550x545x212    | 750x545x212    | 750x545x212    | 950x545x212    |
|                      |                                    | H4/H5: width x height x depth | mm      | 800x592x220    | 800x592x220    | 1000x592x220   | 1000x592x220   | 1200x592x220   |
|                      | Weight                             | H3                            | kg      | 17             | 17             | 20             | 20             | 25             |
|                      |                                    | H4; H5                        | kg      | 24.4           | 24.4           | 28.2           | 28.2           | 34.2           |
| Connections          | Hydraulic connections inlet/outlet |                               | cal     | RC3/4          |                |                |                |                |
|                      | Drainage                           |                               | mm      | ODø16          |                |                |                |                |

| NXKH3 model          |                                    |                               |         | V500           | V600           | V800           | V900           |
|----------------------|------------------------------------|-------------------------------|---------|----------------|----------------|----------------|----------------|
| Airflow              |                                    | high/mid/low                  | m³/h    | 748/555/398    | 1017/720/588   | 1245/906/675   | 1509/1054/806  |
| Cooling              | Capacity                           | high/mid/low                  | kW      | 4.82/3.73/2.8  | 5.43/4.32/3.58 | 6.25/5.12/4.05 | 7.17/5.67/4.72 |
|                      | Flow of water                      |                               | l/h     | 850            | 930            | 1120           | 1290           |
|                      | Water pressure drop                |                               | kPa     | 27.32          | 18.54          | 26.51          | 30.94          |
| Heating <sup>1</sup> | Capacity                           | high/mid/low                  | kW      | 5.21/3.92/2.88 | 6.38/4.81/3.93 | 7.48/5.84/4.6  | 8.45/6.32/5.05 |
|                      | Flow of water                      |                               | l/h     | 920            | 1100           | 1300           | 1470           |
|                      | Water pressure drop                |                               | kPa     | 23.5           | 17.62          | 24             | 27.39          |
| Heating <sup>2</sup> | Capacity                           | high/mid/low                  | kW      | 6.17/4.65/3.44 | 7.44/5.69/4.71 | 8.79/6.89/5.45 | 9.96/7.48/5.94 |
|                      | Flow of water                      |                               | l/h     | 850            | 930            | 1120           | 1290           |
|                      | Water pressure drop                |                               | kPa     | 27,46          | 24,16          | 32,37          | 34,9           |
| Power supply         |                                    |                               | V/Ph/Hz | 220-240/1/50   |                |                |                |
| Power input          |                                    | high/mid/low                  | W       | 31/16/10       | 37/18/12       | 67/30/15       | 103/38/212     |
| Sound pressure level |                                    | high/mid/low                  | dB(A)   | 42/35/27       | 42/33/28       | 48/39/31       | 51/42/35       |
| Heat exchanger       | No. of rows                        |                               |         | 3              | 2              | 2              | 2              |
|                      | Max. operating pressure            |                               | MPa     | 1.6            | 1.6            | 1.6            | 1.6            |
| Unit                 | Dimensions                         | H3: width x height x depth    | mm      | 950x545x212    | 1250x545x212   | 1250x545x212   | 1250x545x212   |
|                      |                                    | H4/H5: width x height x depth | mm      | 1200x592x220   | 1500x592x220   | 1500x592x220   | 1500x592x220   |
|                      | Weight                             | H3                            | kg      | 25             | 32             | 32             | 32             |
|                      |                                    | H4; H5                        | kg      | 34.2           | 40             | 40             | 40             |
| Connections          | Hydraulic connections inlet/outlet |                               | cal     | RC3/4          |                |                |                |
|                      | Drainage                           |                               | mm      | ODø16          |                |                |                |

### Notes:

- Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating<sup>1</sup>: water inlet temperature 45°C, air inlet temperature 20°CDB.  
Conditions for heating<sup>2</sup>: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
- Noise level measured in a semi-anechoic chamber.

## H TYPE - 2-PIPE SYSTEM - AC VERSION

| NXKH3 model          |                                    |                               |                   | 150            | 250            | 300            | 400            | 450            |
|----------------------|------------------------------------|-------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|
| Airflow              |                                    | high/mid/low                  | m <sup>3</sup> /h | 255/215/190    | 425/360/320    | 510/430/380    | 680/580/510    | 765/650/570    |
| Cooling              | Capacity                           | high/mid/low                  | kW                | 1.15/0.93/0.89 | 1.87/1.74/1.59 | 2.53/2.25/1.88 | 3.27/2.84/2.54 | 3.97/3.58/3.15 |
|                      | Flow of water                      |                               | l/h               | 198            | 322            | 435            | 562            | 683            |
|                      | Water pressure drop                |                               | kPa               | 18.3           | 10.1           | 14,2           | 26.3           | 23.1           |
| Heating              | Capacity                           | high/mid/low                  | kW                | 1.52/1.29/1.14 | 2.53/2.15/1.90 | 3.49/2.97/2.62 | 4.58/3.89/3.44 | 5.64/4.79/4.23 |
|                      | Water pressure drop                |                               | kPa               | 16             | 8.8            | 13,7           | 24             | 22             |
| Power supply         |                                    |                               | V/Ph/Hz           | 220-240/1/50   |                |                |                |                |
| Power input          |                                    |                               | W                 | 27             | 29             | 40             | 46             | 39             |
| Sound pressure level | H3                                 | high/mid/low                  | dB(A)             | 30/27/24       | 33/30/28       | 35/32/30       | 37/34/32       | 39/36/34       |
|                      | H4                                 | high/mid/low                  | dB(A)             | 32/29/26       | 35/32/30       | 37/34/32       | 39/36/34       | 41/38/36       |
|                      | H5                                 | high/mid/low                  | dB(A)             | 30/27/24       | 33/30/28       | 35/32/30       | 37/34/32       | 39/36/34       |
| Heat exchanger       | No. of rows                        |                               |                   | 3              | 3              | 2              | 2              | 3              |
|                      | Max. operating pressure            |                               | MPa               | 1.6            | 1.6            | 1.6            | 1.6            | 1.6            |
| Unit                 | Dimensions                         | H3: width x height x depth    | mm                | 550×545×212    | 550×545×212    | 750×545×212    | 750×545×212    | 950×545×212    |
|                      |                                    | H4/H5: width x height x depth | mm                | 800×592×225    | 800×592×225    | 1000×592×225   | 1000×592×225   | 1200×592×225   |
|                      | Weight                             | H3                            | kg                | 17             | 17             | 20             | 20             | 25             |
|                      |                                    | H4; H5                        | kg                | 22.5           | 22.5           | 26             | 26             | 32.5           |
| Connections          | Hydraulic connections inlet/outlet |                               | cal               | RC3/4          |                |                |                |                |
|                      | Drainage                           |                               | mm                | ODø16          |                |                |                |                |

| NXKH3 model          |                                    |                               |                   | 500            | 600            |
|----------------------|------------------------------------|-------------------------------|-------------------|----------------|----------------|
| Airflow              |                                    | high/mid/low                  | m <sup>3</sup> /h | 850/720/640    | 1020/870/765   |
| Cooling              | Capacity                           | high/mid/low                  | kW                | 4.85/4.41/3.72 | 5.64/5.02/4.46 |
|                      | Flow of water                      |                               | l/h               | 834            | 970            |
|                      | Water pressure drop                |                               | kPa               | 20             | 11.4           |
| Heating              | Capacity                           | high/mid/low                  | kW                | 6.98/5.93/5.24 | 8.23/7.00/6.17 |
|                      | Water pressure drop                |                               | kPa               | 17.4           | 10             |
| Power supply         |                                    |                               | V/Ph/Hz           | 220-240/1/50   |                |
| Power input          |                                    |                               | W                 | 49             | 63             |
| Sound pressure level | H3                                 | high/mid/low                  | dB(A)             | 41/38/36       | 42/39/37       |
|                      | H4                                 | high/mid/low                  | dB(A)             | 43/40/38       | 44/41/39       |
|                      | H5                                 | high/mid/low                  | dB(A)             | 41/38/36       | 42/39/37       |
| Heat exchanger       | No. of rows                        |                               |                   | 3              | 2              |
|                      | Max. operating pressure            |                               | MPa               | 1.6            | 1.6            |
| Unit                 | Wymiary                            | H3: width x height x depth    | mm                | 950×545×212    | 1250×545×212   |
|                      |                                    | H4/H5: width x height x depth | mm                | 1200×592×225   | 1500×592×225   |
|                      | Masa                               | H3                            | kg                | 25             | 32             |
|                      |                                    | H4; H5                        | kg                | 32.5           | 39             |
| Connections          | Hydraulic connections inlet/outlet |                               | cal               | RC3/4          |                |
|                      | Drainage                           |                               | mm                | ODø16          |                |

## Notes:

- Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
- Noise level measured in a semi-anechoic chamber.

## F TYPE - 2-PIPE SYSTEM - AC VERSION

| NXKF3(4/5) model     |                                    |                               |                   | 150            | 250            | 300            | 400            | 450            |
|----------------------|------------------------------------|-------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|
| Airflow              |                                    | high/mid/low                  | m <sup>3</sup> /h | 255/215/190    | 425/360/320    | 510/430/380    | 680/580/510    | 765/650/570    |
| Cooling              | Capacity                           | high/mid/low                  | kW                | 1.15/0.93/0.89 | 1.87/1.74/1.59 | 2.53/2.25/1.88 | 3.27/2.84/2.54 | 3.97/3.58/3.15 |
|                      | Flow of water                      |                               | l/h               | 198            | 324            | 438            | 564            | 684            |
|                      | Water pressure drop                |                               | kPa               | 18.3           | 10.1           | 14,2           | 9.5            | 10.3           |
| Heating              | Capacity                           | high/mid/low                  | kW                | 2.54/2.24/1.88 | 4.17/3.36/3.13 | 5.64/4.85/4.23 | 7.22/6.35/5.49 | 8.85/7.61/6.55 |
|                      | Water pressure drop                |                               | kPa               | 16             | 8.8            | 13,7           | 24             | 22             |
| Power supply         |                                    |                               | V/Ph/Hz           | 220-240/1/50   |                |                |                |                |
| Power input          |                                    |                               | W                 | 27             | 29             | 40             | 46             | 39             |
| Sound pressure level | H3                                 | high/mid/low                  | dB(A)             | 30/27/24       | 33/30/28       | 35/32/30       | 37/34/32       | 39/36/34       |
|                      | H4                                 | high/mid/low                  | dB(A)             | 32/29/26       | 35/32/30       | 37/34/32       | 39/36/34       | 41/38/36       |
|                      | H5                                 | high/mid/low                  | dB(A)             | 30/27/24       | 33/30/28       | 35/32/30       | 37/34/32       | 39/36/34       |
| Heat exchanger       | No. of rows                        |                               |                   | 3              | 3              | 2              | 2              | 3              |
|                      | Max. operating pressure            |                               | MPa               | 1.6            | 1.6            | 1.6            | 1.6            | 1.6            |
| Unit                 | Dimensions                         | H3: width x height x depth    | mm                | 550×545×212    | 550×545×212    | 750×545×212    | 750×545×212    | 950×545×212    |
|                      |                                    | H4/H5: width x height x depth | mm                | 800×572×225    | 800×572×225    | 1000×572×225   | 1000×572×225   | 1200×572×225   |
|                      | Weight                             | H3                            | kg                | 17             | 17             | 20             | 20             | 25             |
|                      |                                    | H4; H5                        | kg                | 22.5           | 22.5           | 26             | 26             | 32.5           |
| Connections          | Hydraulic connections inlet/outlet |                               | cal               | RC3/4          |                |                |                |                |
|                      | Drainage                           |                               | mm                | ODø16          |                |                |                |                |

| NXKF3(4/5) model     |                                    |                               |                   | 500             | 600              | 800               |
|----------------------|------------------------------------|-------------------------------|-------------------|-----------------|------------------|-------------------|
| Airflow              |                                    | high/mid/low                  | m <sup>3</sup> /h | 850/720/640     | 1020/870/765     | 1360/1160/1020    |
| Cooling              | Capacity                           | high/mid/low                  | kW                | 4.85/4.41/3.72  | 5.64/5.02/4.46   | 6.52/5.75/4.36    |
|                      | Flow of water                      |                               | l/h               | 834             | 972              | 1122              |
|                      | Water pressure drop                |                               | kPa               | 24.6            | 11.4             | 9.5               |
| Heating              | Capacity                           | high/mid/low                  | kW                | 10.28/9.05/7.71 | 12.24/10.89/9.18 | 15.35/13.82/11.67 |
|                      | Water pressure drop                |                               | kPa               | 17.4            | 10               | 20,2              |
| Power supply         |                                    |                               | V/Ph/Hz           | 220-240/1/50    |                  |                   |
| Power input          |                                    |                               | W                 | 49              | 63               | 88                |
| Sound pressure level | H3                                 | high/mid/low                  | dB(A)             | 41/38/36        | 42/39/37         | 44/41/38          |
|                      | H4                                 | high/mid/low                  | dB(A)             | 43/40/38        | 44/41/39         | 46/43/40          |
|                      | H5                                 | high/mid/low                  | dB(A)             | 41/38/36        | 42/39/37         | 44/41/38          |
| Heat exchanger       | No. of rows                        |                               |                   | 3               | 2                | 2                 |
|                      | Max. operating pressure            |                               | MPa               | 1.6             | 1.6              | 1.6               |
| Unit                 | Dimensions                         | H3: width x height x depth    | mm                | 950×545×212     | 1250×545×212     | 1250×545×212      |
|                      |                                    | H4/H5: width x height x depth | mm                | 1200×572×225    | 1500×572×225     | 1500×572×225      |
|                      | Weight                             | H3                            | kg                | 25              | 32               | 32                |
|                      |                                    | H4; H5                        | kg                | 32.5            | 39               | 39                |
| Connections          | Hydraulic connections inlet/outlet |                               | cal               | RC3/4           |                  |                   |
|                      | Drainage                           |                               | mm                | ODø16           |                  |                   |

### Notes:

1. Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.  
Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
2. Noise level measured in a semi-anechoic chamber.





N/001/2018

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