PRODUCT CATALOGUE

www.noxaeurope.com

WHAT IS NOXA?

Noxa is the brand in HVAC industry created as an **answer** for potential customers especially looking for failure-free and user-friendly heat recovery and air-conditioning units.

On the basis of many technological tests, comparative analyses and customer researches, users considered NOXA units 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.

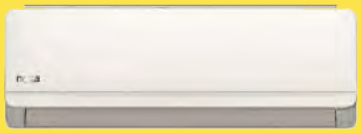
HOW DOES NOXA **FULFILL ITS PROMISES?**

- 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 custmers air conditioners which are:

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



AIR CONDITIONING
FOR YEARS

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.

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 an 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 SUCH FACILITIES AS:

- HOUSE
- APPARTMENT
- OFFICE
- COMMERCIAL PREMISE

econoxa

CLIMATE DIRECTIVES

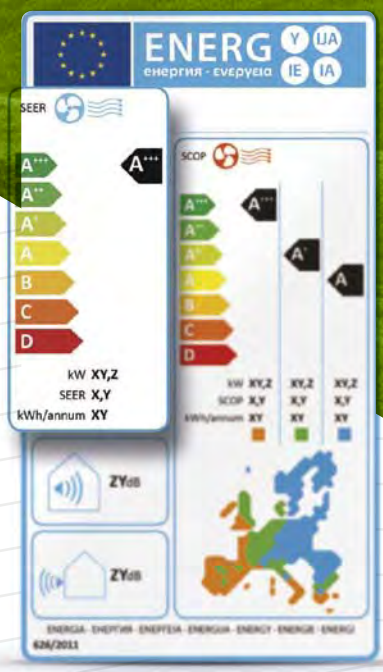
The European Union enacted the special Directive, called ErP Directive which specifies requirements for electric energy related products. These requirements provide reduction of primary energy consumption and CO_2 emission, while increasing the use of energy from renewable sources by 20% (3x20 package). These aims have to be fulfilled till 2020.

20% decrease in CO_2 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

soon available!

NOXA MULTI

mobile

air cooler

heat recovery unit

wall-mounted recuperator

wall-mounted

ceiling & floor

ducted

modular chillers

compact cassette

standard cassette

ducted

NOXA AIR CONDITIONER IT IS ALSO:

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

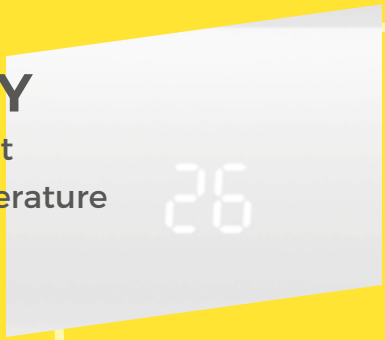
The built-in additional low ambient kit and the specially designed control board, enable cooling operation at external temperatures as low as -25 °C.

12 Indoor Unit Fan Speeds

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

NOXA
Happy

~
DISPLAY
informs about
the set temperature



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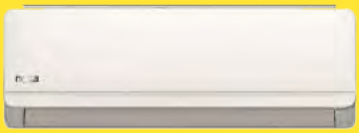
REMOTE CONTROL
easy way of
air management



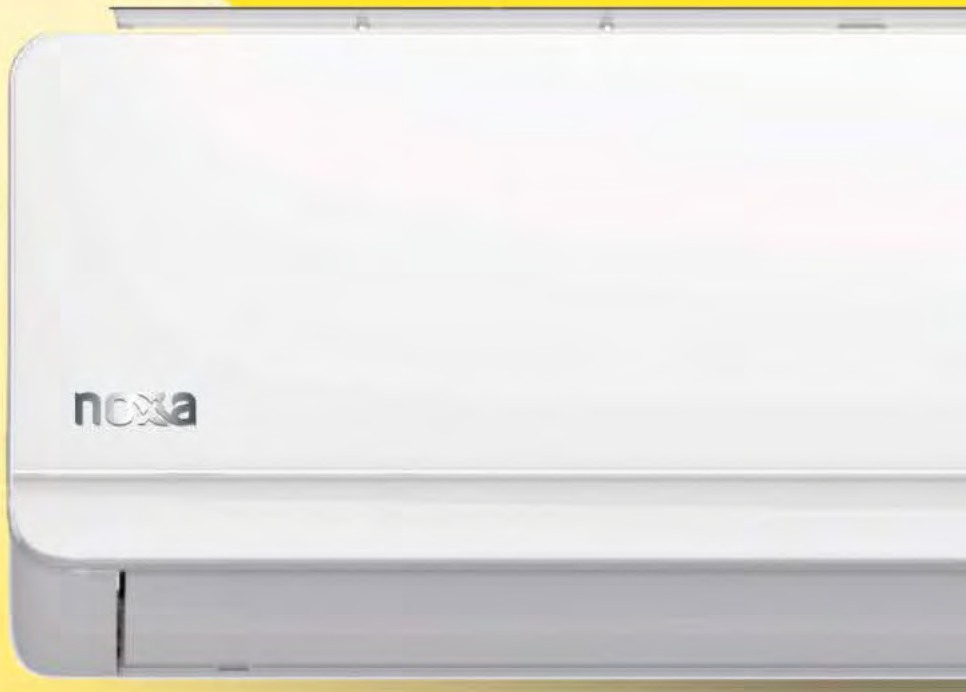
~
DIMENSIONS
width from 75 cm

~
LOUVERS
adjust the airflow
direction

cooling capacity
NOXA: 2.6-7.0 kW

It means that the unit can cool room up to

80m²



~JUST RIGHT AI

ALL YOU NEED FROM AIR CON

~

QUIET OPERATION

it will not disturb your
home peace

~

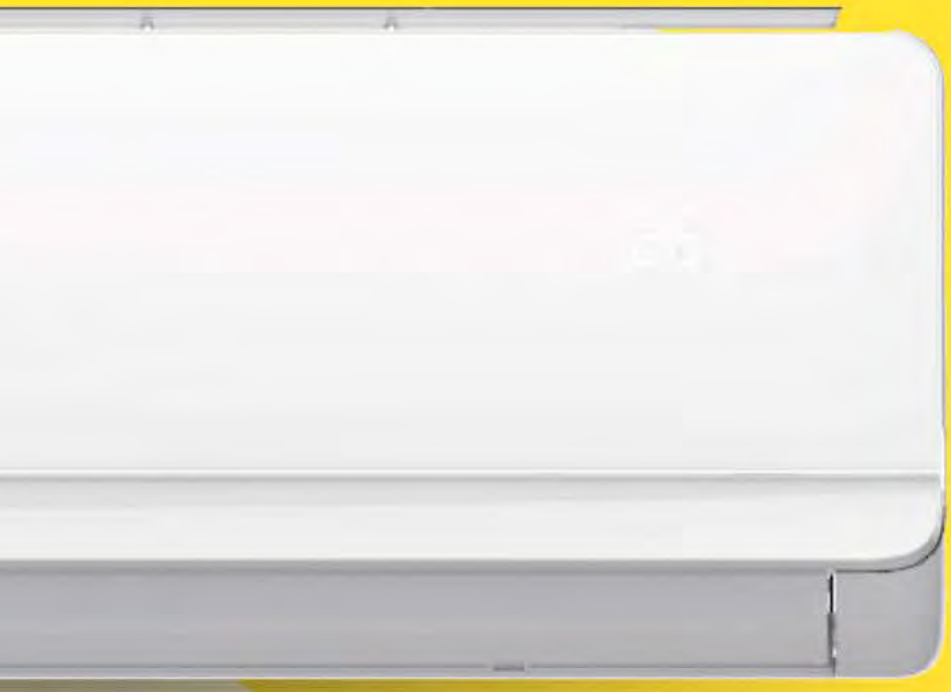
SIMPLE INSTALLATION

unit ready to set up

~

SNOW-WHITE PANEL

elegant
and easy to clean



heating capacity

NOXA: 2.8 - 7.0 kW

It means that NOXA works out also during winter

R CONDITIONER

IDITIONING IN COMPETITIVE PRICE

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

no

ALL I
TECHN

INDIVIDUAL CONTROL
you are in charge

6

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

5

HEATING
a year

START & FUN
turn on and enjoy life

2

N ONE
OLOGY

3

ALL FUNCTIONS
YOU NEED
just right air conditioner

4

QUIET OPERATION
AND UNIQUE DESIGN
you can afford it!

NOXA HAPPY

HAPPY
SERIES

STANDARD FUNCTIONS

Self-diagnostics

Rigid cover material

Sleep mode

Timer

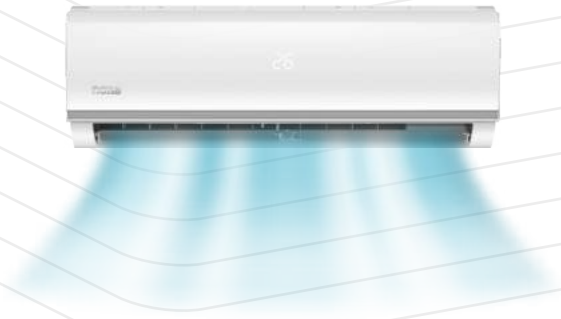
4D airflow

Auto restart

OPTIONAL FUNCTIONS

WiFi

HEPA filter



SWING2

This function enables you to get the desired angle of the blades.

STRONG

This function provides the most powerful level of cooling and heating.

EASY PANEL CLEANING

The panel is made of 3-rd generation, dirt resistance material.

TWO-SIDED INSTALLATION

The drain pipe can be fixed on the left or right side of the drain pan.

SELF-CLEANING

This function prevents the growth of bacteria.

4D AIRFLOW

Improved air distribution and flow (4 different directions – up, down and both sides) provides more comfort.

TECHNICAL **DATA**

Set				SFR-25B-1A	SFR-35B-1A	SFR-50B-1A	SFR-70B-1A
Indoor unit				NXRA-ID25BFR-1A	NXRA-ID35BFR-1A	NXRA-ID50BFR-1A	NXRA-ID70BFR-1A
Outdoor unit				NXRA-OD25BFR-1A	NXRA-OD35BFR-1A	NXRA-OD50BFR-1A	NXRA-OD70BFR-1A
Power supply (V/Ph/Hz)				220/1/50	220/1/50	220~240/1/50	220~240/1/50
Cooling	Capacity	Rated	kW	2,6	3,5	5,3	7,0
		Min-Max	kW	0,5~2,9	0,8~3,5	1,2~5,4	1,4~7,5
	Rated power input		kW	0,95	1,13	1,73	2,3
	EER		kW/kW	2,74	3,10	3,06	3,04
	SEER			6,15	6,1	6,57	6,89
	ErP Energy Efficiency Class			A++	A++	A++	A++
Heating	Capacity	Rated	kW	2,8	3,5	5,4	7,0
		Min-Max	kW	0,5~3,0	1,0~3,5	1,2~5,8	0,9~8,2
	Rated power input		kW	1,24	1,24	1,89	2,5
	COP		kW/kW	2,26	2,82	2,86	2,80
	SCOP			4,1	4,07	4,02	4,11
	ErP Energy Efficiency Class			A+	A+	A+	A+
Max. input current			A	8	9,5	12	16
Indoor unit	Dimensions (width x height x depth)		mm	750x285x200	750x285x200	900x310x225	1082x330x233
	Transport dimensions (width x height x depth)		mm	820x347x277	820x347x277	970x382x302	1155x397x312
	Weight (net/gross)		kg	7,5/9	8/9,5	12/14	15/17
	Airflow (High)		m^3/h	560	560	850	1150
	Sound pressure level		dB(A)	42/37/33/27	42/37/33/27	46/39/36/31	49/42/39/33
	Sound power level		dB(A)	53	53	57	60
Outdoor unit	Dimensions (width x height x depth)		mm	730x545x285	730x545x285	800x545x315	900x700x350
	Transport dimensions (width x height x depth)		mm	850x620x370	850x620x370	920x620x400	1020x770x430
	Weight (net/gross)		kg	25/29	25/29	35/40	45/51
	Airflow		m^3/h	1500	1500	2150	3300
	Sound pressure level		dB(A)	46	48	50	55
	Sound power level		dB(A)	57	58	61	64
Rerfigerant	Type			R32	R32	R32	R32
	Amount		kg	0,53	0,6	1,28	1,44
Rerfigerant piping	Liquid / Gas		cal	1/4 / 3/8	1/4 / 3/8	1/4 / 1/2	1/4 / 5/8
	Max. lenght		m	15	20	25	30
	Max. hight difference		m	7	10	10	15
Recommended electrical wiring and protections	Power supply - outdoor unit		mm2	1,5	1,5	1,5	1,5
	Transmission		mm2	1,5	1,5	1,5	1,5
	Protection		A	C10	C10	C16	C16
Recommended operating temperature ranges (outdoor)	Cooling		°C	-16°C ~ 48°C			
	Heating		°C	-15°C ~ 32°C			

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.
Level of generated noise may vary depending on the measurement method and conditions.

NOXA HAPPY

WIRELESS REMOTE CONTROLLER

YKR-K/E

FUNCTIONS

· On / Off
· Temperature display
· Clock
· Change of operation mode
· Change of fan speed
· Louver control
· Real rooom temperature display
· Powerful cooling and heating setting
· Time setting
· LCD display activation / turning off
· Evaporator cleaning
· Sleep mode
· Health mode
· Drying and moisture prevention

TIMER

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

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.

APPLICATION

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

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)

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.

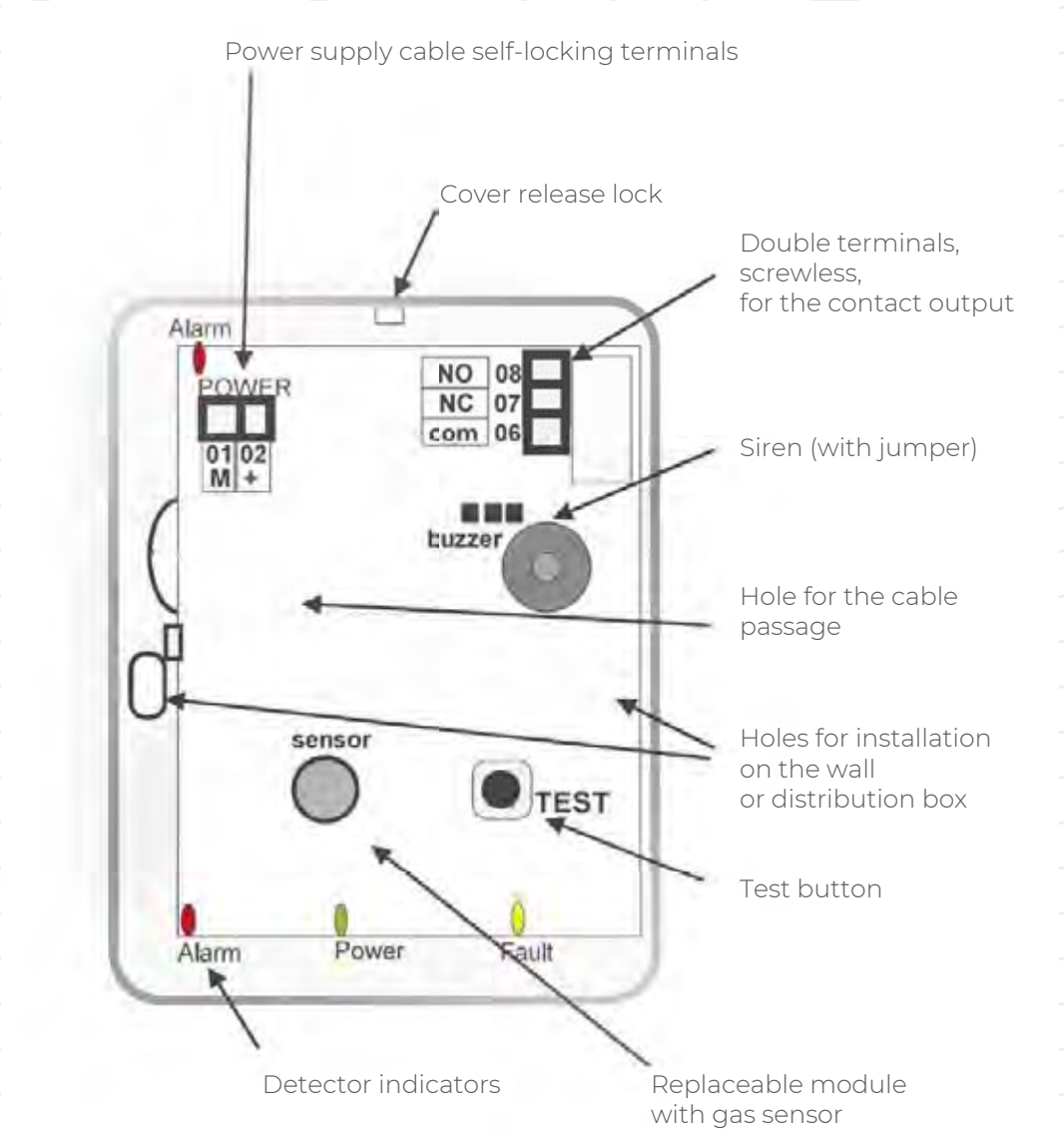
Unit switching off signal in case of detected exceeded concentration of refrigerant in a room

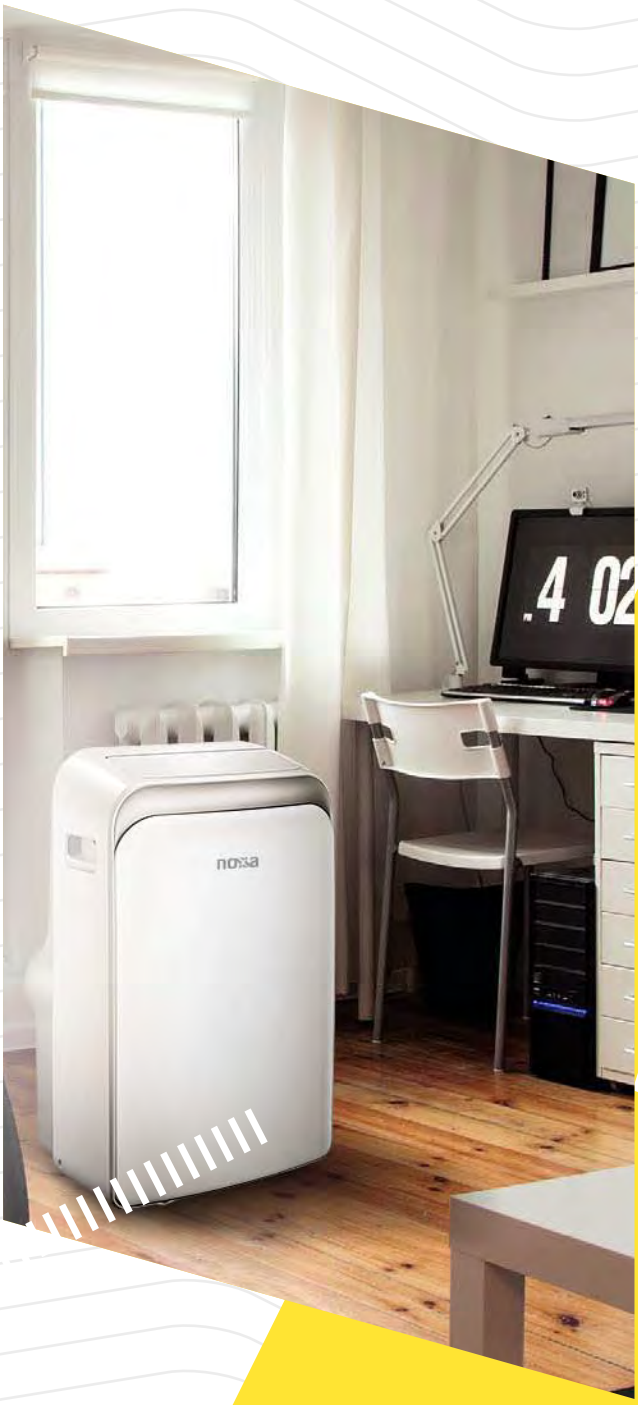
TECHNICAL DATA

Model	NX-DET-V1
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); 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, 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

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^3/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^3	75
Filtration type		HEPA filter, carbon filter, ionizer

NOXA FAMILY

MOBILE

COOLING AND HEATING

JOY SERIES

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			NXP-35CPO1-C
Type			heating / cooling
Power supply		V/ph/Hz	220-240/1/50
Cooling	Rated capacity	kW	3.5
	Rated input power	W	1350
	Operating current	A	5.9
	EER	W/W	2.6
	Energy Efficiency Class		A
Heating	Rated capacity	kW	2.9
	Rated input power	kW	1145
	Operating current	A	5.0
	COP	W/W	2.8
	Energy Efficiency Class		A+
Condensate amount		l/h	3.2
Internal fan	Airflow	m^3/h	355/370/420
	Sound pressure level (Low/Medium/High)	dB(A)	44/46/50
Stand-by mode input power		W	0,5
Rerfigerant	Type		R290
	GWP		3
	Amount	kg	0.23
Control system			built-in panel and wireless remote controller
Electrical protection		A	16
Recommended indoor operating temperature range (cooling/heating)		°C	17-35/5-30
Applicable floor space		m^2	26-35
Dimensions (width x depth x height)		mm	467x397x765
Transport dimensions (width x depth x height)		mm	515x440x890
Weight (net/gross)		kg	30.5/34.5

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

NOXA FAMILY

MOBILE

ONLY COOLING
JOY SERIES

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-25CPO1-CA	NXP-35CPO1-CA
Type			cooling	
Power supply		V/fz/Hz	220-240/1/50	
Cooling	Rated capacity	kW	2.6	3.5
	Rated input power	W	970	1350
	Operating current	A	4.3	5.9
	EER	W/W	2.8	2.6
	Energy Efficiency Class		A	A
Internal fan	Airflow	m^3/h	352/366/398	355/370/420
	Sound pressure level (Low/Medium/High)	dB(A)	42/44/49	44/46/50
Condensate amount		l/h	2.7	3.5
Rerfigerant	Type		R290	R290
	GWP		3	3
	Amount	kg	0.20	0.22
Stand-by mode input power		W	0,5	0,5
Control system			built-in panel and wireless remote controller	
Electrical protection		A	16	16
Recommended indoor operating temperature range (cooling/heating)		˚C	17-35	17-35
Applicable floor space		m^2	18-26	26-35
Dimensions (width x depth x height)		mm	454x365x700	467x397x765
Transport dimensions (width x depth x height)		mm	489x403x880	515x440x890
Weight (net/gross)		kg	29.5/32.9	30.5/34.5

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

NOXA FAMILY

MOBILE

COOLING AND HEATING
ONLY COOLING

SMILE SERIES

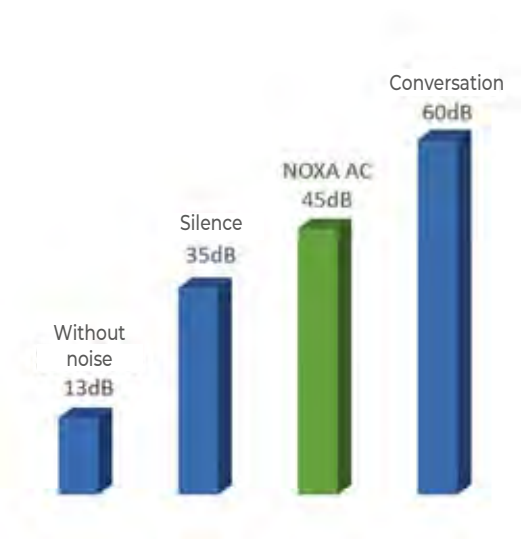
NEW

NEW **DESIGN**

- Removable front panel
- Steel cover of the control box, fire and dust resistant
- Integrated rear components, One Piece dust-proof grille

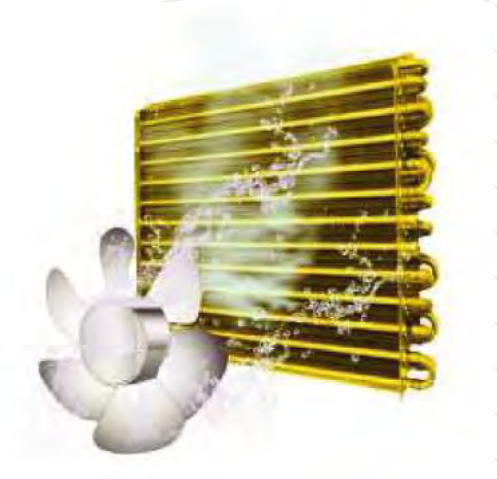
INTEGRATED **STRUCTURE**

- The set includes the air-conditioner and piping
- In order to adopt to users' expectations, the exhaust air duct is designed to provide simple installation and simultaneously maintain the attractive design.



SUPER **QUIET**

- Better comfort conditions by reducing the noise up to 45dB(A). It is possible thanks to optimization of unit operation with use of air tunnel and larger fan with advanced motor.



WATER **ATOMIZATION**

This functionality allows to lower the condensing temperature and energy consumption, resulting in higher performance of the whole unit.

AUTO-SWING

Double horizontal louver automatically directs the air-flow, thus improving the efficiency of the mobile air-conditioner.

LOW NOISE

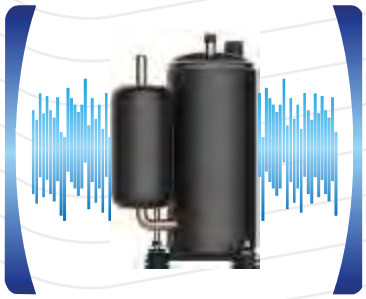
Super quiet structure equipped with low noise compressor and fan, makes the NOXA mobile air-conditioner a very competitive device.

REMOTE **CONTROL**

Comfort and effective control of the mobile air-conditioner is possible even at a distance of 10m.

SAFE **ELECTRIC CONTROL BOX**

- Prevents insects from entering the box
- Prevents fire

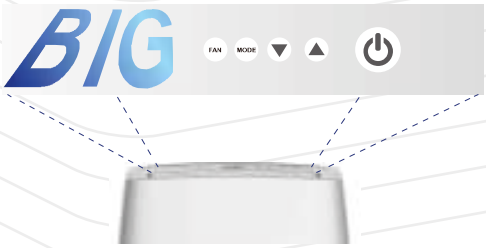


COMPRESSOR ACOUSTIC INSULATION

- Efficiently absorbs operational noise of the compressor, improves comfort level without disturbing relaxation.

DOUBLE-SIDED **COTTON SILENCER**

- More efficiently lowers the noise of the compressor and additionally reduces vibrations of the whole unit.



LARGE **DISPLAY** SCREEN

- Easy to operate touch panel enables intuitive control of the unit.

MOBILE **DESIGN**

- Unit can be freely moved from one place to another.

TECHNICAL DATA

Model			NXPAS-025CCO1A	NXPA-025CCO1A	NXPA-035CCO1A	NXPA-025CCH1A	NXPA-035CCH1A
Typ			cooling			cooling and heating	
Power supply		V/ph/Hz	220-240/1/50				
Cooling	Rated capacity	kW	2,3	2,6	3,4	2,6	3,4
	Rated input power	W	950	920	1280	920	1280
	Operating current	A	4,2	4,08	5,68	4,08	5,68
	EER	W/W	2,6	2,83	2,66	2,83	2,66
	Energy Efficiency Class		A++	A++	A++	A++	A++
Heating	Rated capacity	kW	-	-	-	2,3	2,7
	Rated input power	W	-	-	-	740	970
	Operating current	A	-	-	-	3,28	4,3
	COP	W/W	-	-	-	3,1	2,78
	Energy Efficiency Class		-	-	-	A++	A++
Internal fan	Airflow (Low/Medium/High)	m^3/h	330/360/390	330/360/390	330/360/390	330/360/390	330/360/390
	Sound pressure level (Low/Medium/High)	dB(A)	35/39/44	35/39/44	37/42/46	35/39/44	37/42/46
Rerfigerant	Type		R290	R290	R290	R290	R290
	GWP		3	3	3	3	3
	Amount	g	200	200	210	200	210
Control system			built-in panel and wireless remote controller				
Recommended operating temperature range (cooling/heating)		°C	16~35°C	16~35°C	16~35°C	5~35°C	5~35°C
Dimensions (width x depth x height)		mm	419x338x705	476x385x710	476x385x710	476x385x710	476x385x710
Transport dimensions (width x depth x height)		mm	545x435x885	545x435x885	545x435x885	545x435x885	545x435x885
Weight net/gross		kg	29/34	31,5/36,5	33/38	32,5/37,5	33,5/38,5

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

NOXA FAMILY

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^3/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^3	75
Filtration type		HEPA filter, carbon filter, ionizer

NOXA Air

NOXA AIR

AIR CURTAIN

Blue KING

NEW

OPERATING PRINCIPLE

Air curtains are equipped with a centrifugal fan with forward curved spiral blades, which provide large airflow (air velocity reaching 11 m/s) and simultaneously ensure quiet operation. Casing made of sheet steel, painted white, with fireproof structure. Hot 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.

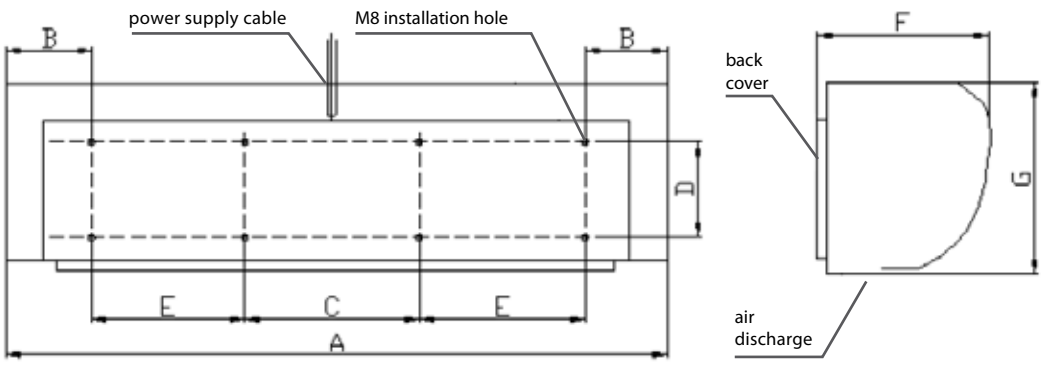
Fan is stopped 3 minutes after switching off the curtain, in order to protect the heater against overheating.

Additionally, the air curtains are equipped with a door contact which enables connection of a reed switch that powers the unit 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

NEW

Model	A	B	C	D	E	F	G
NXACC101000AV2	1000	80	240	100	300	200	215
NXACC151000AV2	1500	30	360	100	360	200	215
NXACC201000AV2	2000	100	360	100	360	200	215
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	Input power	Airflow	Airflow velocity	Max. sound pressure level	Weight	Dimensions
	[V/Hz]	[W]	[m3/h]	[m/s]	[dB]	kg	mm
NXACC101000AV2	220V 50Hz	150	1980/1164	11	≤43	12,1	1000x215x200
NXACC151000AV2	220V 50Hz	220	2970/1747	11	≤46	17,2	1500x215x200
NXACC201000AV2	220V 50Hz	320	3960/2329	11	≤51	21,5	2000x215x200

Model	Voltage	Input power		Airflow	Airflow velocity	Max. sound pressure level	Weight	Dimensions
	[V/Hz]	Fan [W]	Heater [kW]	[m3/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

Cold air curtain models (NXACC101000AV1/NXACC151000AV1/ NXACC201000AV1) are available until stocks are exhausted.

NOXA AIR

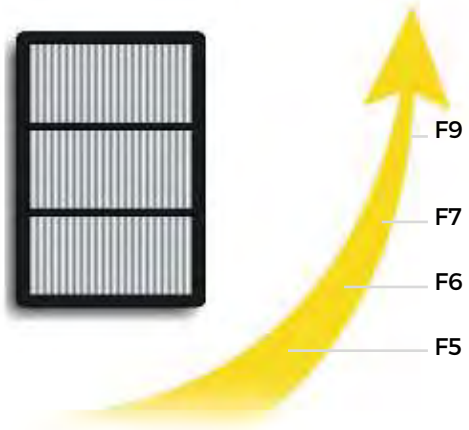
HEAT RECOVERY UNIT

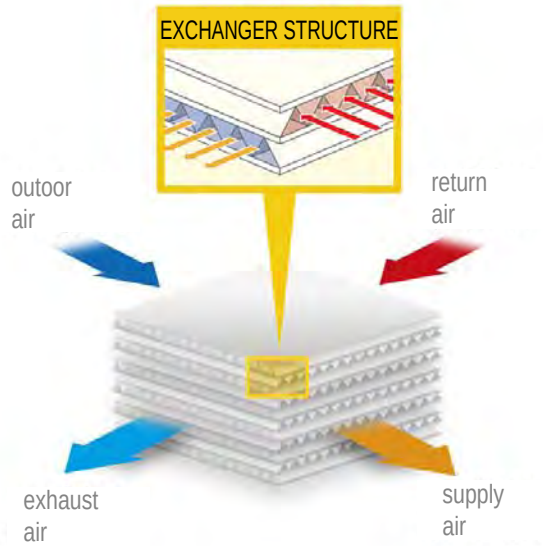
ERV series

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.





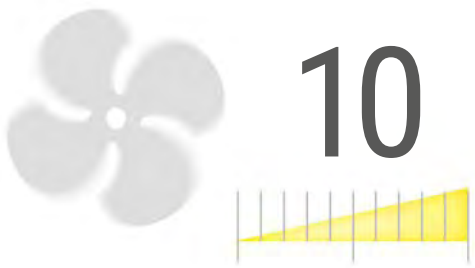
ADVANCED, ENTHALPY, CROSS-FLOW HEAT EXCHANGER

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.



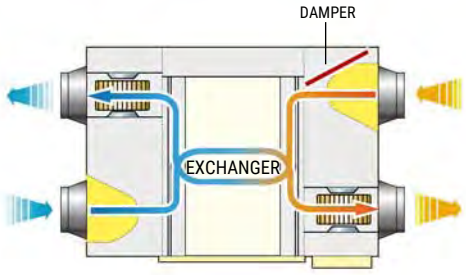
10 FAN **SPEEDS**

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.

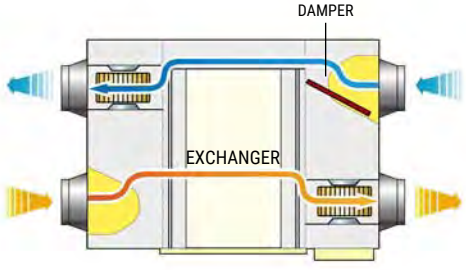
AUTO BY-PASS

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 lovel
almost inaudible	10	paper rustling		
barely heard	20	ticking clock		
very quiet	30	quiet garden		
quiet	40	TV studio		
rather quiet	50	talk		
moderately loud	60	office	Mid-range of audible frequencies	
loud	70	road traffic		
very loud	80	loud radio		
very loud	90	plant floor		
extreme loud	100	jackhammer	Threshold of pain	
unbearable	110	rock concert		
	120	airplane		
pain	130			

AVAILABLE ADDITIONAL CONNECTORS

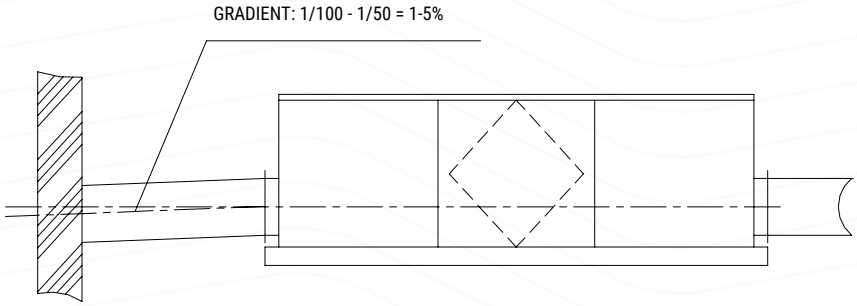
NOXA ERV units are equipped with additional contacts available on the PCB, that extend their functionality. The option to connect CO_2 and humidity sensors increases level of comfort in use and its safety. Available, additional potential-free contact enables connecting the unit with a ventilation hood 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.

EXAMPLE OF NOXA ERV HEAT RECOVERY UNITS APPLICATION

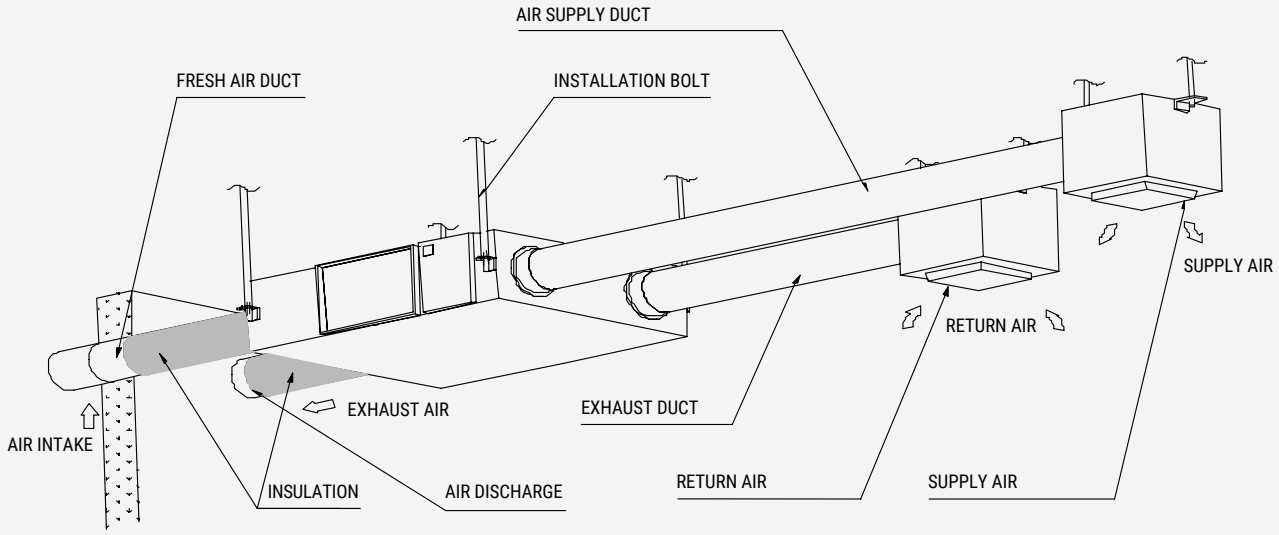
In order to avoid condensation inside the duct it is important to insulate both conduits leading outside (fresh air and exhaust air duct). Additionally, the duct supplying fresh air to the unit and removing outside filtered air, should be installed with inclination, in order to avoid possible flooding 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^3/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	mm	264			270			270			270		
	Width	mm	580			599			804			904		
	Depth	mm	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	mm^2	2x 1.5			2x 1.5			2x 1.5			2x 1.5		
	Control cable	mm^2	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		

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

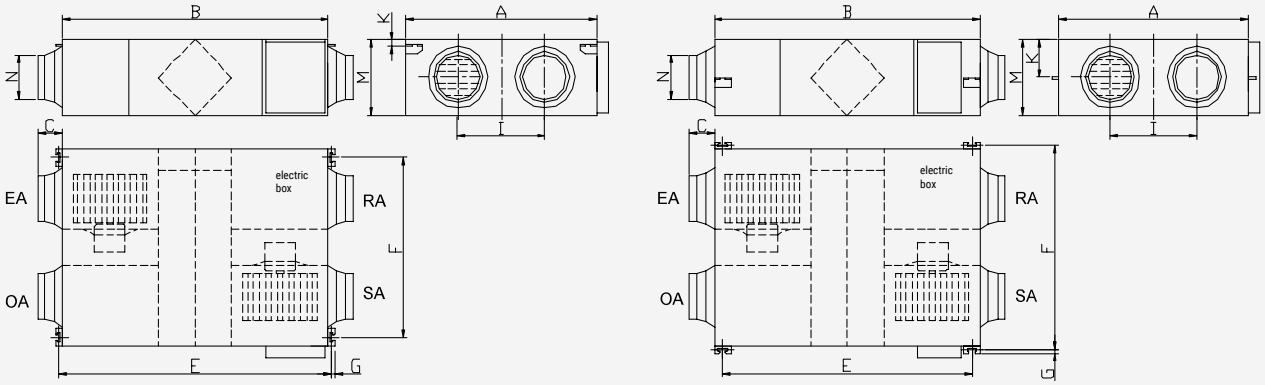
NXERV_ST1

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_2 (carbon dioxide) sensor support	•	•
12	Humidity level display	-	•
13	CO_2 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_2/humidity sensor)	•/-	•/•

ERV ACCESSORIES

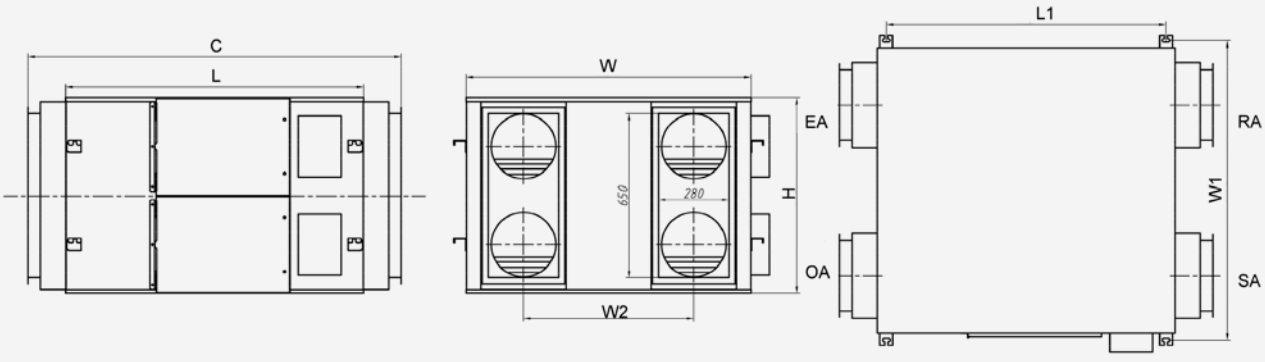
Model	Description	Applicable model	Remarks
F5 class filter (EU5)			
NXFLT5.1	F5 class filters - optional equippment NXERV-.....V1	NXERV-150V1	set consists of: 1 filter
NXFLT5.2	F5 class filters - optional equippment NXERV-.....V1	NXERV-250V1	set consists of: 1 filter
NXFLT5.3	F5 class filters - optional equippment NXERV-.....V1	NXERV-350V1	set consists of: 2 filters
NXFLT5.4	F5 class filters - optional equippment NXERV-.....V1	NXERV-500V1	set consists of: 2 filters
NXFLT5.5	F5 class filters - optional equippment NXERV-.....V1	NXERV-800V1; NXERV-2000V1;	set consists of: NXERV-800V1: 2 filters ; NXERV-2000V1: 4 filters
NXFLT5.6	F5 class filters - optional equippment NXERV-.....V1	NXERV-1000V1; NXERV-1300V1;	set consists of: NXERV-1000V1: 2 filter ; NXERV-1300V1: 2 filters
NXFLT5.7	F5 class filters - optional equippment NXERV-.....V1	NXERV-650V1; NXERV-1500V1;	set consists of: NXERV-6500V1: 2 filter ; NXERV-1500V1: 4 filters
F6 class filter (EU6)			
NXFLT6.1	F6 class filters - optional equippment NXERV-.....V1	NXERV-150V1	set consists of: 1 filter
NXFLT6.2	F6 class filters - optional equippment NXERV-.....V1	NXERV-250V1	set consists of: 1 filter
NXFLT6.3	F6 class filters - optional equippment NXERV-.....V1	NXERV-350V1	set consists of: 2 filters
NXFLT6.4	F6 class filters - optional equippment NXERV-.....V1	NXERV-500V1	set consists of: 2 filters
NXFLT6.5	F6 class filters - optional equippment NXERV-.....V1	NXERV-800V1; NXERV-2000V1;	set consists of: NXERV-800V1: 2 filters ; NXERV-2000V1: 4 filters
NXFLT6.6	F6 class filters - optional equippment NXERV-.....V1	NXERV-1000V1; NXERV-1300V1;	set consists of: NXERV-1000V1: 2 filter ; NXERV-1300V1: 2 filters
NXFLT6.7	F6 class filters - optional equippment NXERV-.....V1	NXERV-650V1; NXERV-1500V1;	set consists of: NXERV-6500V1: 2 filter ; NXERV-1500V1: 4 filters
F7 class filter (EU7)			
NXFLT7.1	F7 class filters - optional equippment NXERV-.....V1	NXERV-150V1	set consists of: 1 filter
NXFLT7.2	F7 class filters - optional equippment NXERV-.....V1	NXERV-250V1	set consists of: 1 filter
NXFLT7.3	F7 class filters - optional equippment NXERV-.....V1	NXERV-350V1	set consists of: 2 filters
NXFLT7.4	F7 class filters - optional equippment NXERV-.....V1	NXERV-500V1	set consists of: 2 filters
NXFLT7.5	F7 class filters - optional equippment NXERV-.....V1	NXERV-800V1; NXERV-2000V1;	set consists of: NXERV-800V1: 2 filters ; NXERV-2000V1: 4 filters
NXFLT7.6	F7 class filters - optional equippment NXERV-.....V1	NXERV-1000V1; NXERV-1300V1;	set consists of: NXERV-1000V1: 2 filter ; NXERV-1300V1: 2 filters
NXFLT7.7	F7 class filters - optional equippment NXERV-.....V1	NXERV-650V1; NXERV-1500V1;	set consists of: NXERV-6500V1: 2 filter ; NXERV-1500V1: 4 filters
F9 class filter (EU9)			
NXFLT9.1	F9 class filters - optional equippment NXERV-.....V1	NXERV-150V1	set consists of: 1 filter
NXFLT9.2	F9 class filters - optional equippment NXERV-.....V1	NXERV-250V1	set consists of: 1 filter
NXFLT9.3	F9 class filters - optional equippment NXERV-.....V1	NXERV-350V1	set consists of: 2 filters
NXFLT9.4	F9 class filters - optional equippment NXERV-.....V1	NXERV-500V1	set consists of: 2 filters
NXFLT9.5	F9 class filters - optional equippment NXERV-.....V1	NXERV-800V1; NXERV-2000V1;	set consists of: NXERV-800V1: 2 filters ; NXERV-2000V1: 4 filters
NXFLT9.6	F9 class filters - optional equippment NXERV-.....V1	NXERV-1000V1; NXERV-1300V1;	set consists of: NXERV-1000V1: 2 filter ; NXERV-1300V1: 2 filters
NXFLT9.7	F9 class filters - optional equippment NXERV-.....V1	NXERV-650V1; NXERV-1500V1;	set consists of: NXERV-6500V1: 2 filter ; NXERV-1500V1: 4 filters
Control			
NXERV_ST1	Wall-mounted controller with weekly timer	NXERV (all models)	standard equippment
NXERV_ST2	Wall-mounted touch display controller with weekly timer	NXERV (all models)	optional equippment
Additionally accessories			
NXERV_HMD	Humidity sensor	NXERV (all models)	Compatible with advanced touch controller
NXERV_CO2	CO_2 sensor	NXERV (all models)	Compatible with standard and advanced touch controller
Electric heater			
NXENO-160-1.0-1-CBF	Electric pre-heater with capacity of 1.0 kW	NXERV-150V1	on request
NXENO-160-1.0-1-CBF	Electric pre-heater with capacity of 1.6 kW	NXERV-250V1	on request
NXENO-160-1.6-1-CBF	Electric pre-heater with capacity of 1.6 kW	NXERV-350V1	on request
NXENO-200-2.0-1-CBF	Electric pre-heater with capacity of 2.0 kW	NXERV-500V1	on request
NXENO-250-3.0-1-CBF	Electric pre-heater with capacity of 3.0 kW	NXERV-650V1; NXERV-800V1;	on request
NXENO-250-3.6-2-CBF	Electric pre-heater with capacity of 3.6 kW	NXERV-1000V1	on request
NXEN-40x40-6.0-3-CBF	Electric pre-heater with capacity of 6.0 kW	NXERV-1500V1	on request
NXEN-40x	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

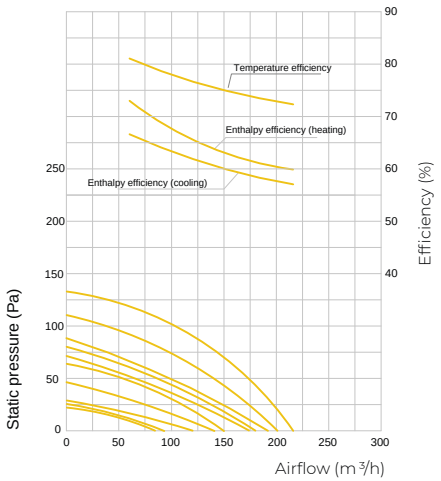
UNIT **DIMENSIONS** [mm]



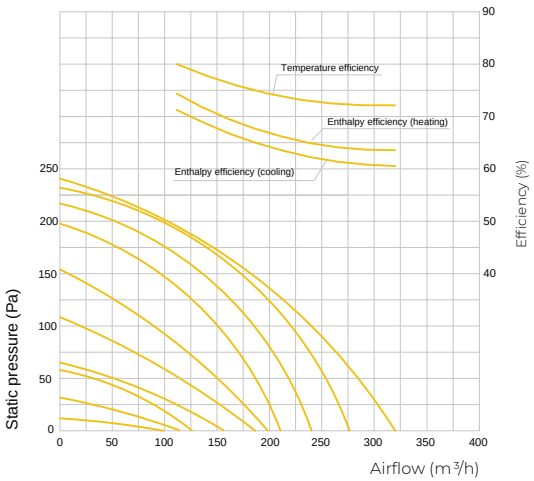
Model	C	L	L1	W	W1	W2	H
NXERV-1500V1	1486	1186	1115	884	940	428	785
NXERV-2000V1	1486	1186	1115	1134	1190	678	785

CAPACITY CHARACTERISTICS

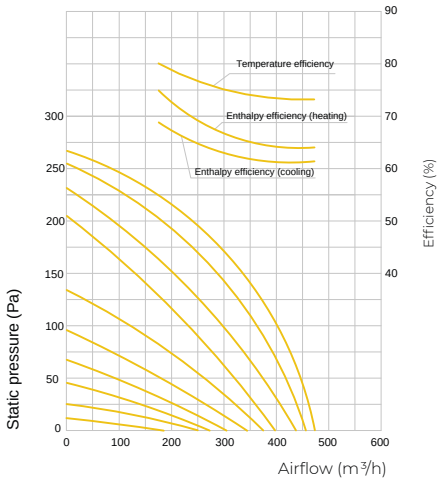
NXERV-150V1



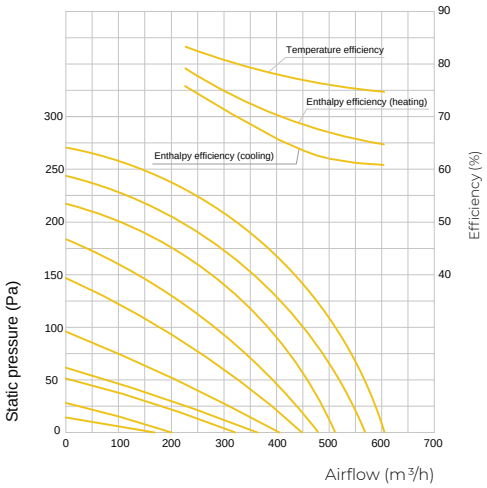
NXERV-250V1



NXERV-350V1



NXERV-500V1



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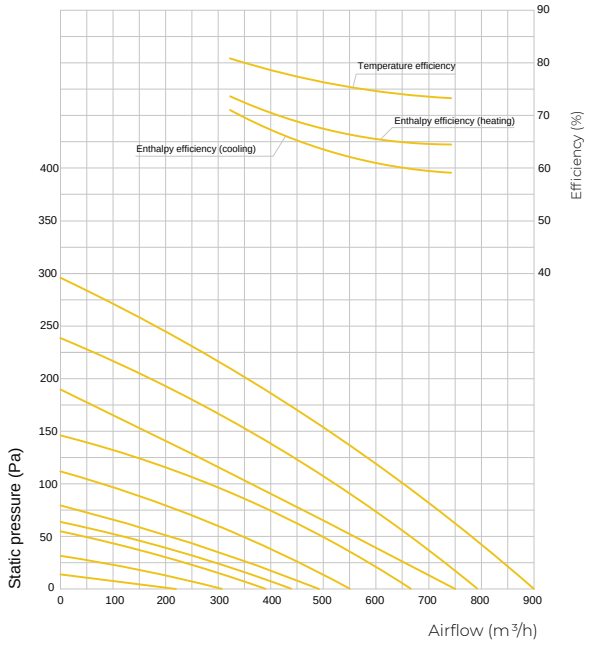

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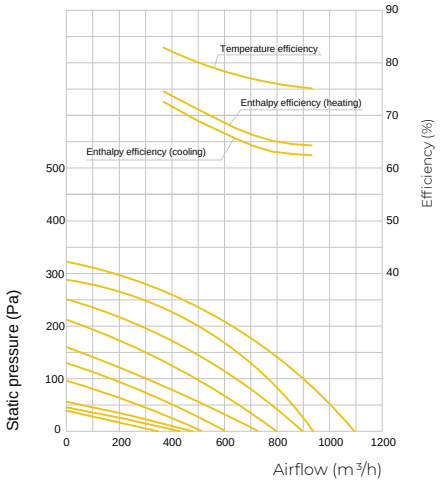
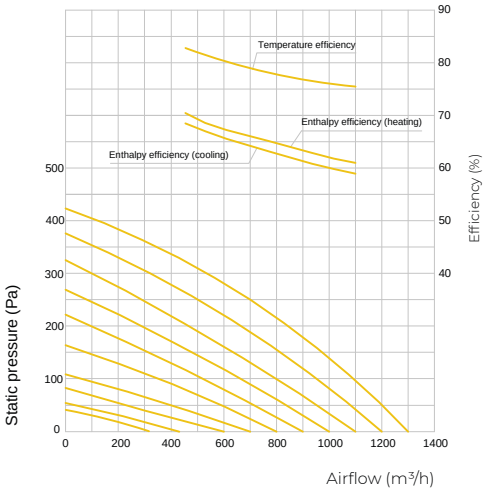
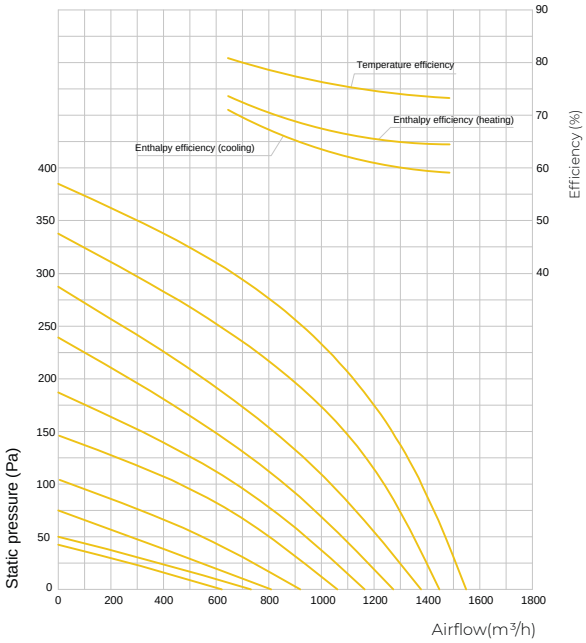


CAPACITY CHARACTERISTICS

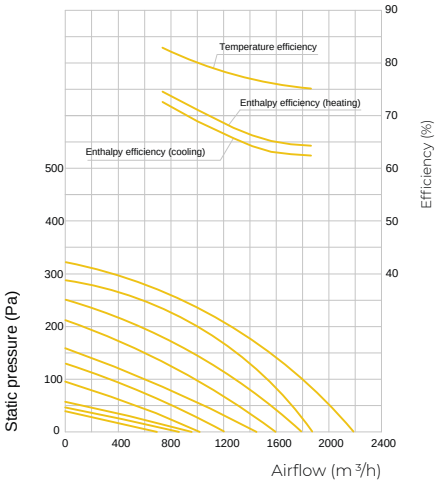
NXERV-1000V1



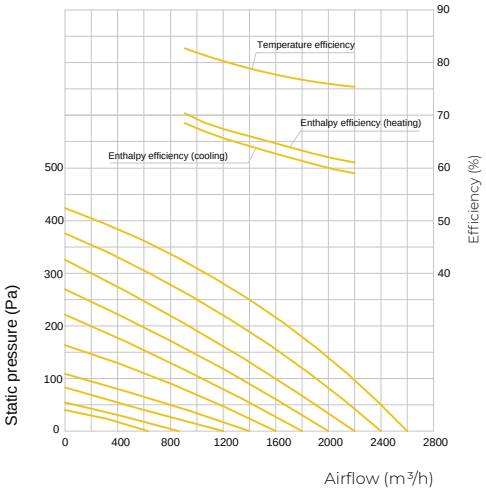
NXERV-1300V1



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

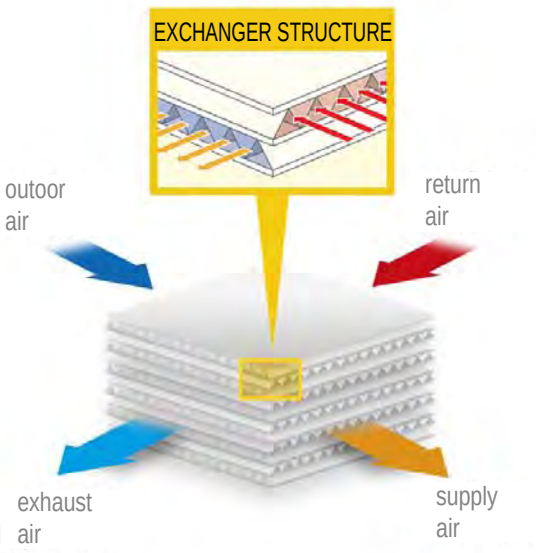
Indoor positive pressure

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.

8 speeds



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 there-by further increase of occupants comfort.

MODE CHANGEOVER

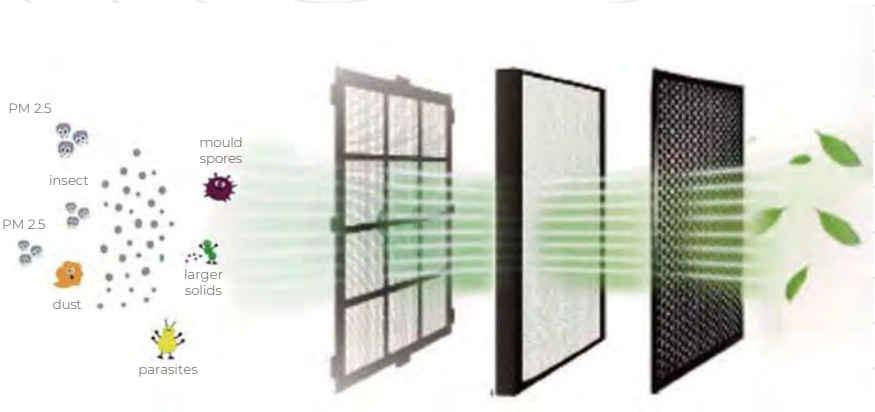
WRV unit features a choice of 7 different operation modes, which provide adaptation of recuperator operational parameters to the current room conditions, thereby making it possible to control the air quality at the most comprehensive level.

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. (Wi-Fi function is available on request.) Furthermore, standard delivery of each recuperator includes a wireless remote controller that enables interaction with the unit from any place.

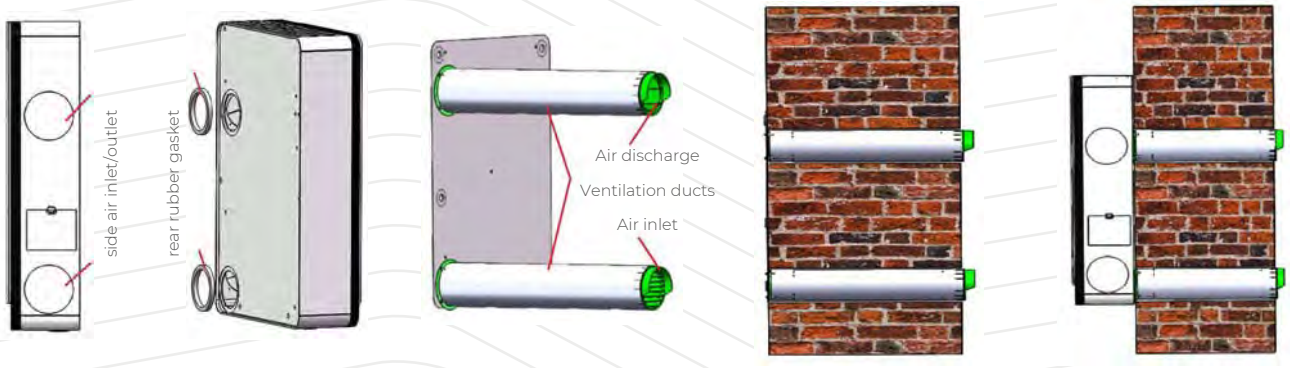
ADVANCED FILTRATION SYSTEM

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).

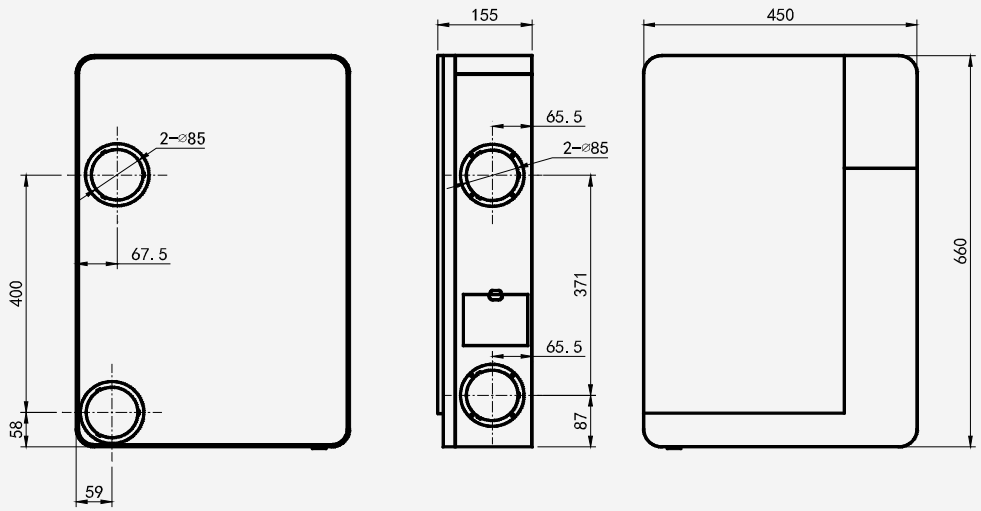
TIME OF RESPONSE

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^3/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^2	20-45
Weight		kg	10
Connection flange diameter		mm	4 x Ø100
Power supply cable cross-section		mm^2	2x 1,5

UNIT DIMENSIONS [mm]



NOXA Heat

NOXA HEAT

COMBO

HEAT PUMPS

R134a

UNIQUE FEATURES

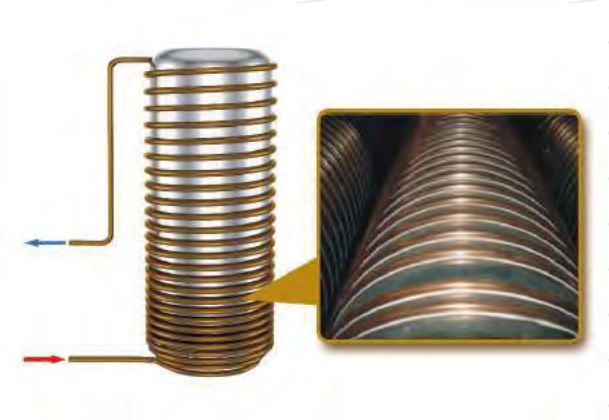
- thermodynamics systems achieving high heating parameters and extremely high heating efficiency coefficients - from 1 kW of energy we can obtain not less than 3.86 kW of thermal energy (COP = 3.86);
- DHW demand realised up to 70°C (without operation of an additional heating source – 190L model);
- 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;
- Auto-Restart;
- refrigerant coil completely separated from the drinking water;
- Antilegionella function - water disinfection preventing the growth of Legionella bacteria;
- possible to connect solar collectors or a solid-fuel boiler - applies only to units equipped with an additional coil (NXCMB-190FS-V2 / NXCMB-300F1S-V2);
- available versions are equipped with DHW tank made of enamelled steel and provided with magnesium sacrificial anode to ensure maximum protection and durability over time.

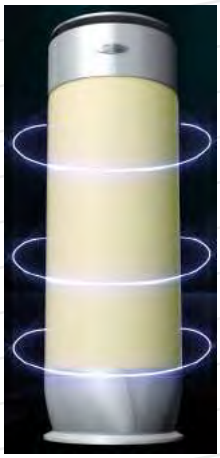
DESCRIPTION

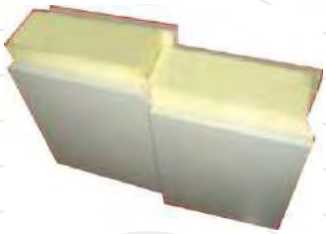
COMBO is a heat pump system for indoor installation, designed for domestic hot water production. It has a cylindrical shape. Lower part hides the domestic hot water tank, and upper - the whole thermodynamic system that heats up water, compressor, heat exchanger, circulating pump, electric heaters.

SAFETY AND **FUNCTIONALITY**

The application of technology which uses outdoor coil that surrounds the water tank, has reduced the possibility of refrigerant pollution of the water to the minimum.





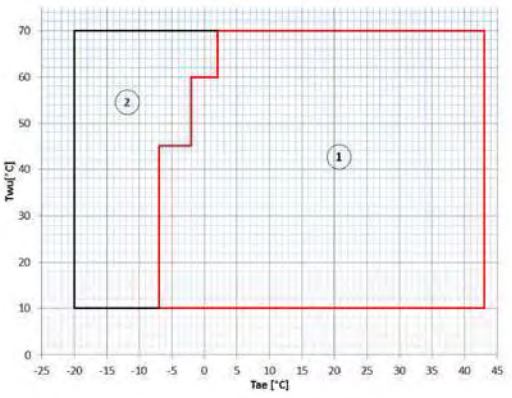


The heat is maintained for a long time thanks to the tight thermal insulation made of 45 mm layer of cyclopentane, which does not allow to lower the temperature inside the tank. Temperature decrease during 24 h (during power outage) is only 5°C.

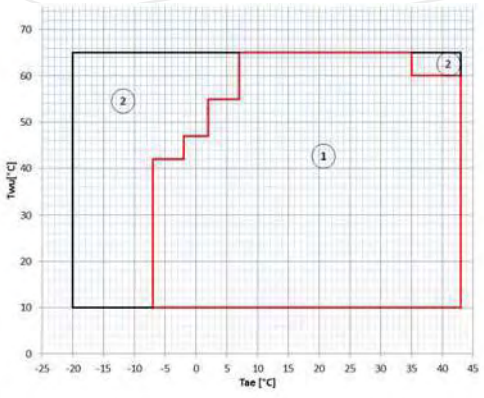
WIDE OPERATING RANGE

Each version of the heat pump enables operation in extremely low temperature conditions, thereby providing the user with reliability and safety.

COMBO 190



COMBO 300



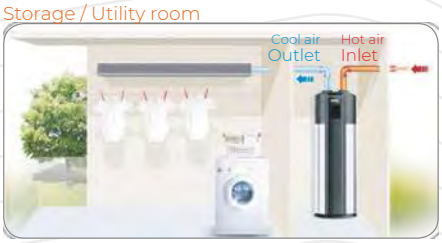
1 - heat pump operating envelope
2 – electric heater operating envelope
Twu – water temperature inside tank
Tae – ambient air temperature before the heat exchanger

FLEXIBLE INSTALLATION OF THE VENTILATION DUCTS

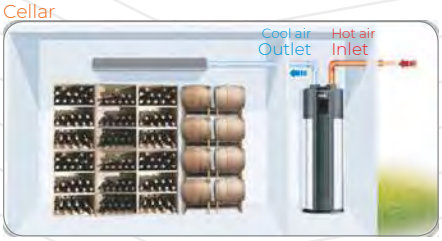
Living room

Dining room

Storage / Utility room



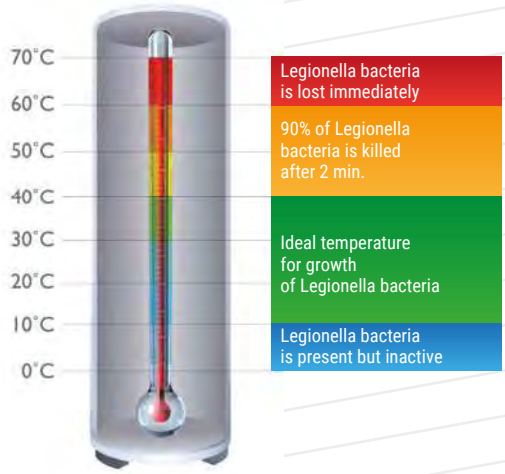
Cellar



* It is possible to use the waste heat for the purpose of cooling down the adjacent rooms (contact Technical-Sales Advisor for further details)

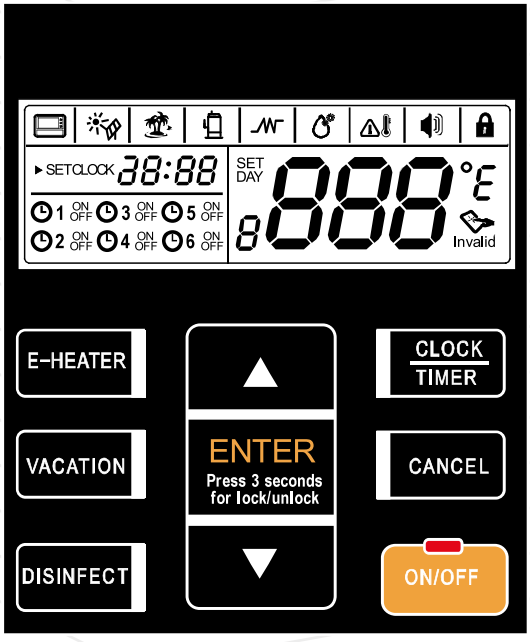
AUTOMATIC DISINFECTION

Each COMBO heat pump is equipped with a function of Legionella bacteria elimination, which is realized by periodic heating of the tank above the temperature, in which the bacteria is lost immediately.



CONTROL SYSTEM

COMBO heat pumps as a standard, are equipped with a controller, which enables management of all unit's parameters.



TECHNICAL DATA

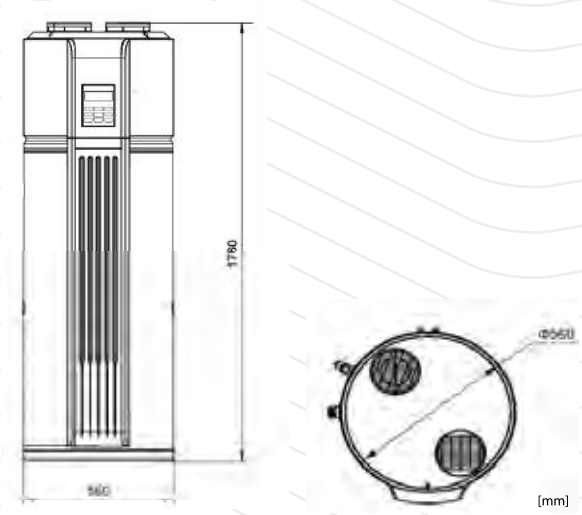
Model		NXCMB-190FS-V2	NXCMB-190ST-V2
Power supply	V/~/Hz	220-240/1/50	220-240/1/50
Electrical protection	A	20	20
Heating capacity	W	1620	1450
Electric heaters power	W	3000	3000
COP (EN 255-3)	W/W	3,86	3,80
Recommended temperature range	°C	-20 ~ 43	-20 ~ 43
Dimensions (diameter / height)	mm	560 / 1830	560 / 1760
Tank volume	dm^3	168	180
Tank (inside) layer	-	enamelled	enamelled
Compressor	type	rotary	rotary
Unit protection	-	high pressure, overload, thermal, refrigerant loss, flow switch	
Water heating time (1)	h:min	03:53	03:53
Max. DHW supply temperature	°C	70	70
Airflow	m^3/h	182/230/270	182/230/270
Sound pressure level (2)	dB(A)	40	41
Sound power level ycznej	dB(A)	51	56
Available static pressure	Pa	25	25
Air connections diameter	mm	160	160
Max. duct length	m	10	10
Hydraulic connections diameter	inch (mm)	3/4 (DN20)	3/4 (DN20)
Refrigerant type	-	R134a	R134a
Refrigerant amount	kg	1,1	1
Tonnes of CO_2 equivalent	t	1,57	1,43
Additional coil surface	m^2	1,1	-
Net weight (empty)	kg	107	107
Operating weight	kg	310	287

Model		NXCMB-300F1 S-V2	NXCMB-300ST-V2
Power supply	V/~/Hz	220-240/1/51	220-240/1/50
Electrical protection	A	30	30
Heating capacity	W	2300	3000
Electric heaters power	W	3000	3150
COP (EN 255-3)	W/W	4,34	3,83
Recommended temperature range	°C	-20 ~ 43	-20 ~ 43
Dimensions (diameter / height) inch (mm)	mm	650 / 1930	650 / 1920
Tank volume	dm^3	272	280
Tank (inside) layer	-	enamelled	enamelled
Compressor	type	rotary	rotary
Unit protection	-	high pressure, overload, thermal, refrigerant loss, flow switch	
Water heating time (1)	h:min	04:22	03:00
Max. DHW supply temperature	°C	65	65
Airflow	m^3/h	312/355/414	312/355/414
Sound pressure level (2)	dB(A)	40	45
Sound power level	dB(A)	55	57
Available static pressure	Pa	25	58
Air connections diameter	mm	190	190
Max. duct length	m	10	10
Hydraulic connections diameter	inch (mm)	3/4 (DN20)	3/4 (DN20)
Refrigerant type	-	R134a	R134a
Refrigerant amount	kg	1,5	1,2
Tonnes of CO_2 equivalent	t	2,14	1,72
Additional coil surface	m^2	1,3	-
Net weight (empty)	kg	145,5	145,5
Operating weight	kg	435	435

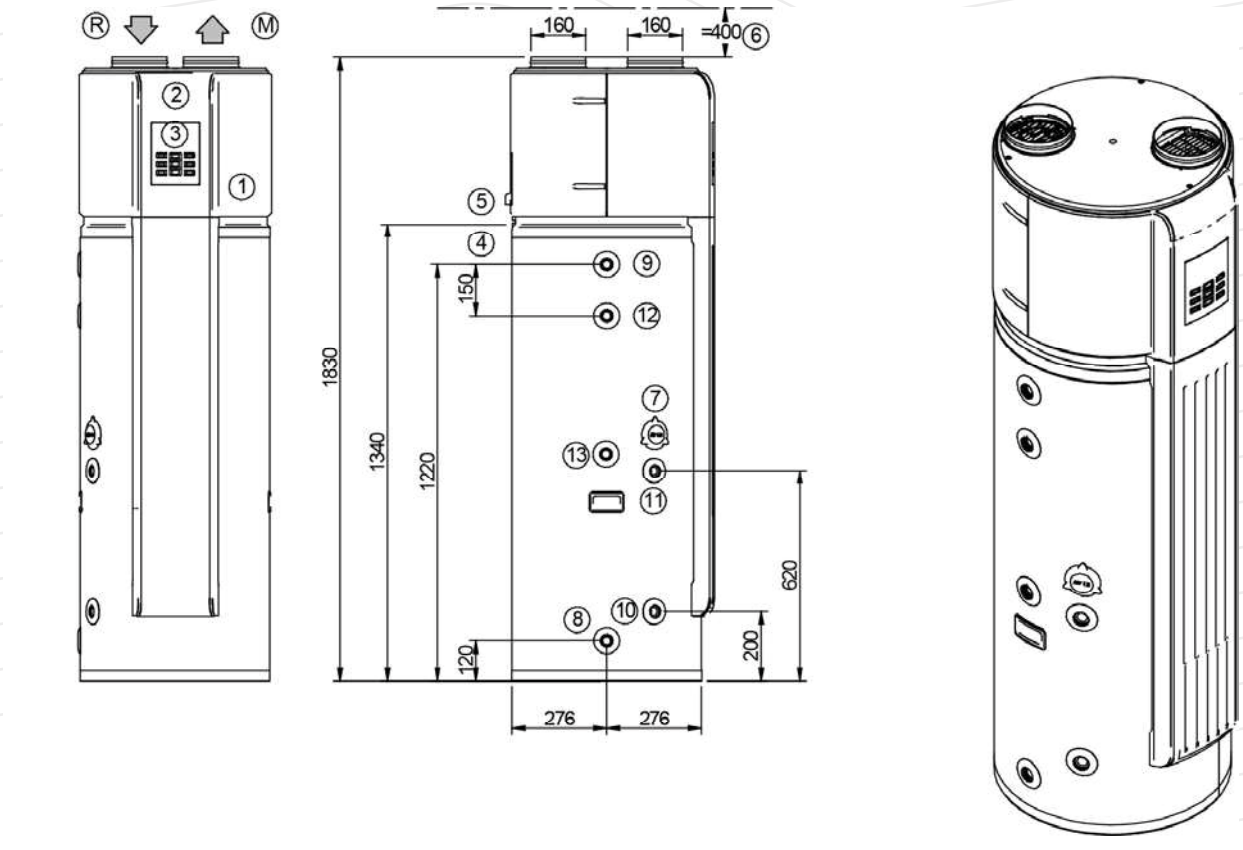
(1) Test conditions: outdoor temperature 15/12°C (DB / WB), inlet water temperature 15°C, outlet water temperature 45°C.
(2) Acoustic pressure test conditions: distance from the unit = 1 m, height of measurement = 1 m + half the height of the unit.

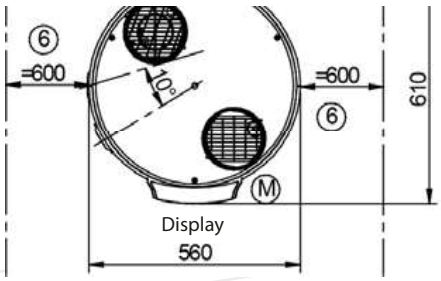
DIMENSIONAL DRAWINGS

NXCMB-19 0ST-V2



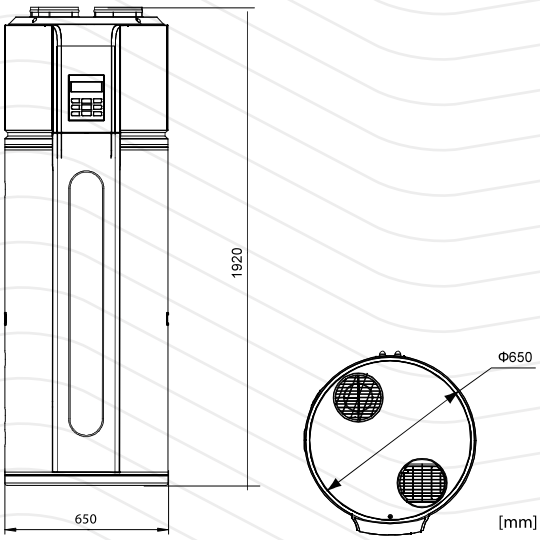
NXCMB-19 0FS-V2



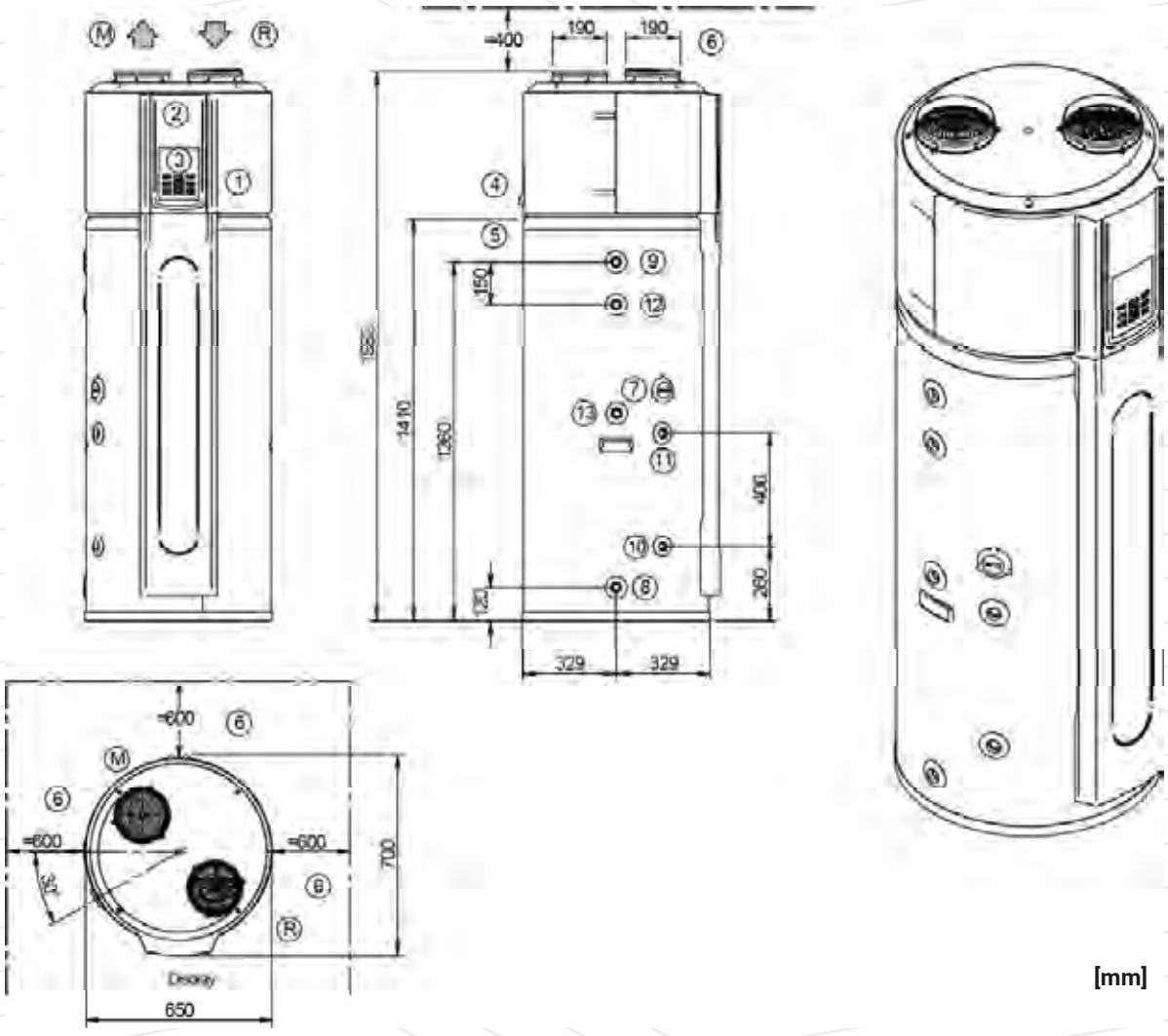


DIMENSIONAL DRAWINGS

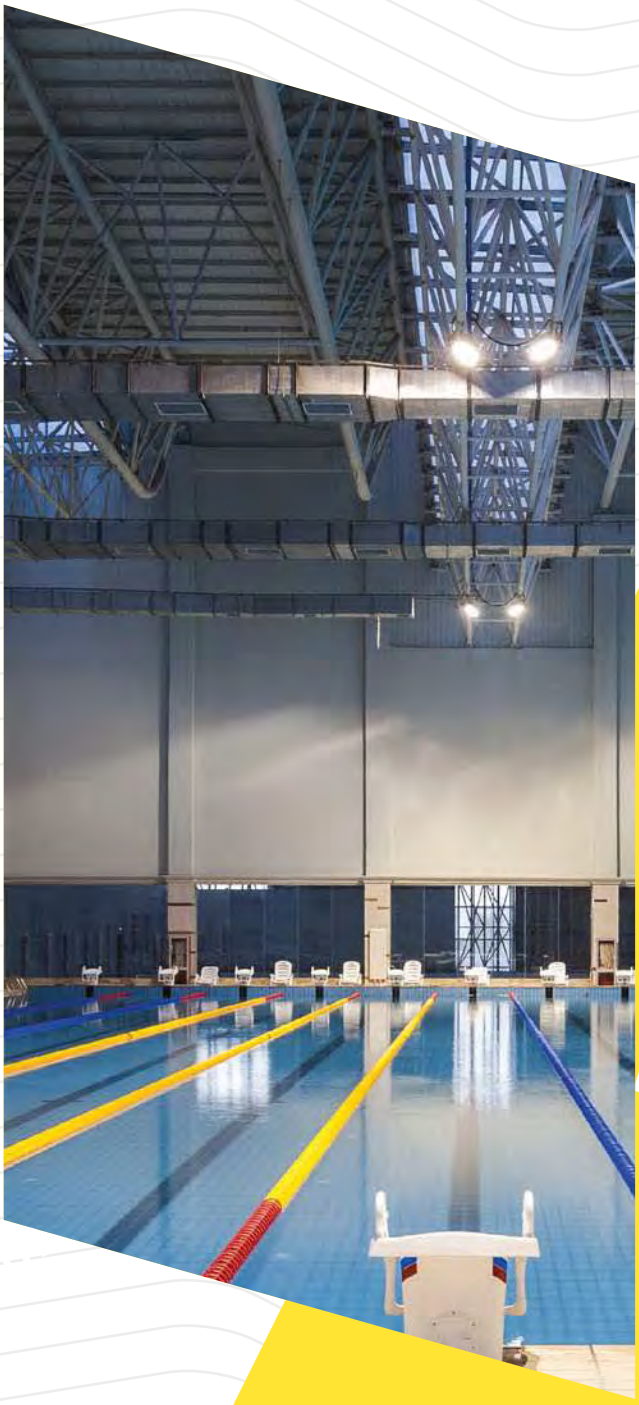
NXCMB-300ST-V2



NXCMB-300F1 S-V2



[mm]



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, duceted, 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

NOXA AQUA

4-WAY
CASSETTE FAN-COILS

4-WAY STANDARD version (840x840)

2 pipe installation

4 pipe installation

4-WAY COMPACT version

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

RM05/BG(T)E-A

KJR-29B/BK-E

Wireless remote controller (STANDARD)	Wired remote controller (OPTION)	Central controller (OPTION)	Advanced control system (OPTION)
	KJR-29B/BK-E	CCM30	LonGW64/E CCM08 CCM18

MASKING PANEL

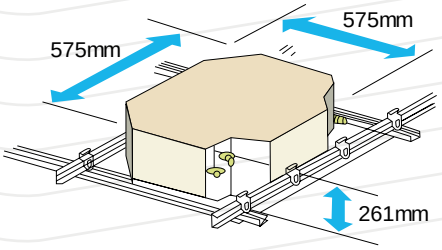
- 4-way air supply available as a standard in 840x840 cassette; (360° circular flow panel available as an option)
- Compact cassette standard equipment includes the 360° circular flow panel.

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.

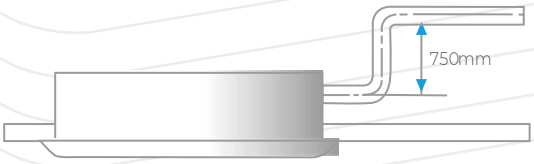


QUIET OPERATION + HIGH PERFORMANCE

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.

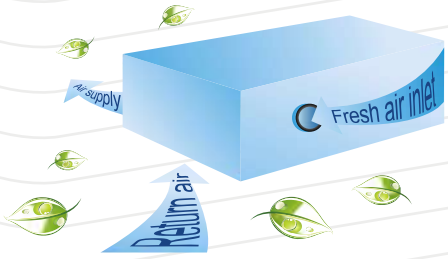
CONDENSATE DRAIN

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 - AC VERSION

Model				NXKA-600RA
Panel				T-NXBQ4-02C2
Power supply			V/Ph/Hz	220-240/1/50
Airflow		high/mid/low	m^3/h	1000/850/720
Cooling (1)	Capacity	high/mid/low	kW	5,7/4,73/3,96
	Flow of water		l/h	984
	Water pressure drop		kPa	23,8
Heating (2)	Capacity	high/mid/low	kW	9,66/7,72/6,27
	Water pressure drop		kPa	23,8
Auxiliary electric heater (EAH)			kW	2,1
Power input			kW	0,125
Sound pressure level (3)		high/mid/low	dB(A)	45/41/36
Heat exchanger	No. of rows			2
	Max. operating pressure		MPa	1,6
Panel	Dimensions	width x height x length	mm	950x45x950
	Weight		kg	6
Indoor unit	Dimensions	width x height x length	mm	840x230x840
	Weight without heater / with heater		kg	25/27
Connections	Hydraulic connections inlet/outlet		cal	RC3/4
	Drainage		mm	ϕ32

Data concerns the capacity at high speed and relevant static pressure.
(1) Conditions for cooling: water temperature 7°C, temperature increase 5°C, air temperature 27°CDB/19°CWB.
(2) Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
(3) Noise level measured in a semi-anechoic chamber.

STANDARD - 2-PIPE SYSTEM - DC VERSION

Model				NXKA-V600R	NXKA-V750R	NXKA-V850R
Panel				T-NXBQ4-02C2	T-NXBQ4-02C2	T-NXBQ4-02C2
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	1175/987/768	1229/1020/810	1451/1146/1012
Cooling (1)	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	high/mid/low	m^3/h	1,05/0,92/0,77	1,10/0,96/0,81	1,37/1,18/1,07
	Water pressure drop	high/mid/low	kPa	19,2/15,4/11	21,3/21,3/12,4	20,1/15,3/12,6
	Power input	high/mid/low	W	41/27/17	49/31/20	68/37/30
Heating (2)	Capacity	high/mid/low	kW	6,06/5,72/5,32	6,27/5,88/5,43	7,88/7,48/6,76
	Flow of water	high/mid/low	m^3/h	1,30/1,14/1,13	1,39/1,20/1,00	1,66/1,39/1,25
	Water pressure drop	high/mid/low	kPa	25,9/20,1/19,9	30/22,7/16,3	26,7/18,8/15,6
	Power input	high/mid/low	W	42/28/17	44/32/19	66/37/28
Heating (3)	Capacity	high/mid/low	kW	8,42/7,37/6,06	8,26/7,49/6,27	10,37/8,72/7,88
	Flow of water	high/mid/low	m^3/h	1,06/0,92/0,76	1,10/0,96/0,81	1,37/1,18/1,07
	Water pressure drop	high/mid/low	kPa	16,9/12,7/8,6	19,1/14,8/10,6	18,2/13,6/11,1
	Power input	high/mid/low	W	42/28/17	49/31/19	67/37/28
Sound pressure level (4)			dB(A)	43/39/33	44/40/34	45/40/37
Sound power level			dB(A)	55/51/45	56/52/46	57/52/49
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 length	mm	950x45x950	950x45x950	950x45x950
	Weight		kg	6	6	6
Indoor unit	Dimensions	width x height x length	mm	840x230x840	840x230x840	840x300x840
	Weight		kg	23	23	27
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4
	Drainage		mm	ϕ32	ϕ32	ϕ32

Model				NXKA-V950R	NXKA-V1200R	NXKA-V1500R
Panel				T-NXBQ4-02C2	T-NXBQ4-02C2	T-NXBQ4-02C2
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	1530/1224/1101	1581/1371/1236	1871/1415/1198
Cooling (1)	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	high/mid/low	m^3/h	1,43/1,24/1,13	1,44/1,28/1,22	1,96/1,53/1,28
	Water pressure drop	high/mid/low	kPa	22/17/14,1	22,3/18,1/16,3	36,6/22,7/16,4
	Power input	high/mid/low	W	75/42/34	85/59/45	126/58/39
Heating (2)	Capacity	high/mid/low	kW	8,49/8/7,35	9,16/8,54/7,9	10,07/9,37/8,68
	Flow of water	high/mid/low	m^3/h	1,71/1,45/1,33	1,73/1,57/1,46	2,35/1,86/1,59
	Water pressure drop	high/mid/low	kPa	28,1/20,7/17,4	28,8/24/20,7	49,2/31,2/23,3
	Power input	high/mid/low	W	76/43/33	86/59/45	128/58/38
Heating (3)	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	high/mid/low	m^3/h	1,43/1,24/1,13	1,44/1,28/1,22	1,96/1,53/1,28
	Water pressure drop	high/mid/low	kPa	19,9/15,2/12,6	20/16,2/14,7	34,3/21,3/15
	Power input	high/mid/low	W	76/42/33	85/58/45	127/58/39
Sound pressure level (4)			dB(A)	46/42/39	48/44/41	49/43/39
Sound power level			dB(A)	58/54/51	60/56/53	61/55/51
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 length	mm	950x45x950	950x45x950	950x45x950
	Weight		kg	6	6	6
Indoor unit	Dimensions	width x height x length	mm	840x300x840	840x300x840	840x300x840
	Weight		kg	27	27	29,5
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4
	Drainage		mm	ϕ32	ϕ32	ϕ32

(1) Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB, for the highest fan speed.
(2) Conditions for heating: water inlet/outlet temperature 45°C/40°C, air inlet temperature 20°CDB.
(3) Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
(4) Noise level measured in a semi-anechoic chamber.

STANDARD - 4-PIPE SYSTEM - DC VERSION

Model				NXKA-V600FA	NXKA-V750FA	NXKA-V850FA
Panel				T-NXBQ4-02C2	T-NXBQ4-02C2	T-NXBQ4-02C2
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	1184/997/783	1278/1057/855	1328/1052/927
Cooling (1)	Capacity	high/mid/low	kW	4,96/4,38/3,64	5,18/4,56/3,88	5,13/4,41/4,06
	Flow of water	high/mid/low	m^3/h	0,9/0,8/0,67	0,94/0,83/0,71	0,93/0,81/0,75
	Water pressure drop	high/mid/low	kPa	14,8/11,5/8,1	15,9/12,4/9	16/14,2/10,4
	Power input	high/mid/low	W	62/44/30	72/50/35	80/49/40
Heating (2)	Capacity	high/mid/low	kW	6,14/5,43/4,61	6,51/5,78/4,94	6,68/5,74/5,28
	Flow of water	high/mid/low	m^3/h	0,58/0,52/0,45	0,61/0,55/0,47	0,62/0,54/0,50
	Water pressure drop	high/mid/low	kPa	25,3/20,5/14,5	32/25,7/19,1	32,6/24,7/21,2
	Power input	high/mid/low	W	56/36/21	67/42/25	75/41/31
Heating (3)	Capacity	high/mid/low	kW	6,94/6,21/5,26	7,37/6,53/5,6	7,65/6,58/6,03
	Flow of water	high/mid/low	m^3/h	0,64/0,58/0,50	0,68/0,61/0,53	0,71/0,61/0,57
	Water pressure drop	high/mid/low	kPa	37,2/26,1/19,3	39,5/32,5/23,8	41,6/31,5/26,8
	Power input	high/mid/low	W	55/36/21	68/43/25	76/42/31
Sound pressure level (4)		high/mid/low	dB(A)	42/37/31	44/39/33	45/39/36
Sound power level			dB(A)	54/49/43	56/51/45	57/51/48
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 length	mm	950x45x950	950x45x950	950x45x950
	Weight		kg	6	6	6
Indoor unit	Dimensions	width x height x length	mm	840x300x840	840x300x840	840x300x840
	Weight		kg	27,5	27,5	27,5
Connections	Hydraulic connections inlet/outlet		cal	RC3/4 - RC1/2	RC3/4 - RC1/2	RC3/4 - RC1/2
	Drainage		mm	ϕ32	ϕ32	ϕ32

Model				NXKA-V950FA	NXKA-V1200FA	NXKA-V1500FA
Panel				T-NXBQ4-02C2	T-NXBQ4-02C2	T-NXBQ4-02C2
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	1403/115/1001	1642/1421/1285	1708/1297/1096
Cooling (1)	Capacity	high/mid/low	kW	5,31/4,59/4,28	7,98/7,25/6,70	8,04/6,62/5,84
	Flow of water	high/mid/low	m^3/h	0,96/0,84/0,78	1,42/1,29/1,2	1,43/1,19/1,05
	Water pressure drop	high/mid/low	kPa	16,4/12,6/10,9	33,9/30/24	33/22,6/17,7
	Power input	high/mid/low	W	90/54/43	121/83/66	139/70/49
Heating (2)	Capacity	high/mid/low	kW	6,73/5,83/5,44	9,746/8,96/8,42	9,93/8,32/7,51
	Flow of water	high/mid/low	m^3/h	0,63/0,55/0,52	0,89/0,82/0,77	0,90/0,76/0,69
	Water pressure drop	high/mid/low	kPa	34/26,6/23,5	42,4/36,6/32,6	48,7/32,5/27
	Power input	high/mid/low	W	84/46/35	118/79/61	125/64/42
Heating (3)	Capacity	high/mid/low	kW	7,65/6,64/6,20	11,04/10,14/9,52	11,34/9,59/8,68
	Flow of water	high/mid/low	m^3/h	0,71/0,62/0,58	1,0/0,92/0,87	1,02/0,87/0,79
	Water pressure drop	high/mid/low	kPa	43,8/33,5/29,3	52,1/44,9/40,6	62,1/45,7/38,3
	Power input	high/mid/low	W	84/45/35	118/79/61	125/64/42
Sound pressure level (4)		high/mid/low	dB(A)	46/41/38	48/44/42	49/43/38
Sound power level			dB(A)	58/53/50	60/56/54	61/55/50
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 length	mm	950x45x950	950x45x950	950x45x950
	Weight		kg	6	6	6
Indoor unit	Dimensions	width x height x length	mm	840x300x840	840x300x840	840x300x840
	Weight		kg	27,5	30	30
Connections	Hydraulic connections inlet/outlet		cal	RC3/4 - RC1/2	RC3/4 - RC1/2	RC3/4 - RC1/2
	Drainage		mm	ϕ32	ϕ32	ϕ32

(1) Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB, for the highest fan speed.
(2) Conditions for heating: water inlet/outlet temperature 65°C/55°C, air inlet temperature 20°CDB, for the highest fan speed.
(3) Conditions for heating: water inlet/outlet temperature 70°C/60°C, air inlet temperature 20°CDB, for the highest fan speed.
(4) Noise level measured in a semi-anechoic chamber.

COMPACT - 2-PIPE SYSTEM - AC VERSION

Model				NXKD-300A	NXKD-400A	NXKD-500A
Panel				T-NXBQ4-03B1	T-NXBQ4-03B1	T-NXBQ4-03B1
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	510/440/360	680/580/480	850/730/600
Cooling (1)	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 (2)	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 input			kW	0,05	0,07	0,095
Sound pressure level (3)		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 length	mm	647x50x647	647x50x647	647x50x647
	Weight		kg	3	3	3
Indoor unit	Dimensions	width x height x length	mm	575x261x575	575x261x575	575x261x575
	Weight without heater / with heater		kg	16,5	16,5	16,5
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4
	Drainage		mm	ϕ25	ϕ25	ϕ25

COMPACT - 4-PIPE SYSTEM - AC VERSION

Model				NXKD-300SA	NXKD-400SA	NXKD-500SA
Panel				T-NXBQ4-03B1	T-NXBQ4-03B1	T-NXBQ4-03B1
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	510/440/360	680/580/480	850/730/600
Cooling (1)	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 (2)	Capacity	high/mid/low	kW	4/3,29/2,92	4,6/3,82/3,4	5,1/4,03/3,52
	Water pressure drop		kPa	17	23	27
Power input			kW	0,05	0,07	0,095
Sound pressure level (3)		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 length	mm	647x50x647	647x50x647	647x50x647
	Weight		kg	3	3	3
Indoor unit	Dimensions	width x height x length	mm	575x261x575	575x261x575	575x261x575
	Weight without heater / with heater		kg	17,5	17,5	17,5
Connections	Hydraulic connections inlet/outlet		cal	RC3/4 - G1/2	RC3/4 - G1/2	RC3/4 - G1/2
	Drainage		mm	ϕ25	ϕ25	ϕ25

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

COMPACT - 2-PIPE SYSTEM - DC VERSION

Model				NXKD-V300	NXKD-V400	NXKD-V500
Panel				T-NXBQ4-03B1	T-NXBQ4-03B1	T-NXBQ4-03B1
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	535/429/322	719/561/448	781/611/494
Cooling (1)	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 (2)	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 (3)	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 input			kW	0,015	0,028	0,043
Sound pressure level (4)		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 length	mm	647x50x647	647x50x647	647x50x647
	Weight		kg	2,5	2,5	2,5
Indoor unit	Dimensions	width x height x length	mm	575x261x575	575x261x575	575x261x575
	Weight		kg	16,5	16,5	16,5
Connections	Hydraulic connections inlet/outlet		cal	GC3/4	GC3/4	GC3/4
	Drainage		mm	ϕ25	ϕ25	ϕ25

COMPACT - 4-PIPE SYSTEM - DC VERSION

Model				NXKD-V300FA	NXKD-V400FA	NXKD-V500FA
Panel				T-NXBQ4-03B1	T-NXBQ4-03B1	T-NXBQ4-03B1
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	536/429/321	727/569/451	731/572/462
Cooling (1)	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 (2)	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 (3)	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 input			kW	0,014	0,037	0,032
Sound pressure level (4)		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 length	mm	647x50x647	647x50x647	647x50x647
	Weight		kg	2,5	2,5	2,5
Indoor unit	Dimensions	width x height x length	mm	575x261x575	575x261x575	575x261x575
	Weight		kg	16,7	16,7	16,7
Connections	Hydraulic connections inlet/outlet		cal	RC3/4-RC1/2	RC3/4-RC1/2	RC3/4-RC1/2
	Drainage		mm	ϕ25	ϕ25	ϕ25

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

NOXA AQUA

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)

RM05/BG(T)E-A

Optional control

KJR-29B/BK-E

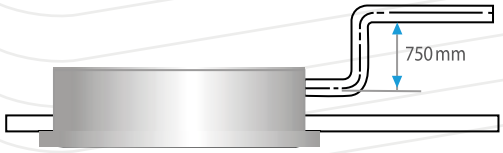
Wireless remote controller (STANDARD)	Wired remote controller (OPTION)	Central controller (OPTION)	Advanced control system (OPTION)
RM05/BG(T)E-A	KJR-29B/BK-E	CCM30	LonGW64/E CCM08 CCM18

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.

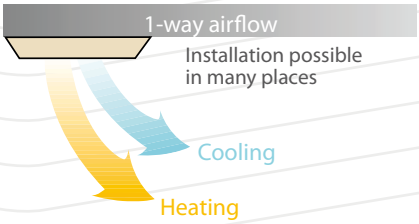
DRAIN PUMP

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

Model				NXKC-300R-BA	NXKC-400R-B
Panel				T-NXBQ1-02D	T-NXBQ1-02D
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50
Airflow		high/mid/low		510/450/400	630/560/500
Cooling (1)	Capacity	high/mid/low	kW	3,04/2,79/2,56	3,79/3,58/3,38
	Flow of water		l/h	520	650
	Water pressure drop		kPa	14	20
Heating (2)	Capacity	high/mid/low	kW	5,13/4,69/4,04	6,41/5,86/5,11
	Water pressure drop		kPa	9	16
Power input			kW	0,032	0,04
Electric heater power			kW	0,75	0,75
Sound pressure level (3)		high/mid/low	dB(A)	36/34/32	37/35/34
Heat exchanger	No. of rows			2	2
	Max. operating pressure		MPa	1,6	1,6
Panel	Dimensions	width x height x length	mm	1180x25x465	1180x25x465
	Weight		kg	3,6	3,6
Indoor unit	Dimensions	width x height x length	mm	1054x155x428	1054x155x428
	Weight without heater / with heater		kg	12,8/13,1	12,8/13,1
Connections	Hydraulic connections inlet/outlet		cal	G1/2	G1/2
	Drainage		mm	ϕ25	ϕ25

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

2-PIPE SYSTEM - DC VERSION

Model				NXKC-V300R-B	NXKC-V400R-B	NXKC-V600R-B
Panel				T-NXBQ1-02D	T-NXBQ1-01D	T-NXBQ1-01D
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	510/432/330	630/509/428	1000/786/583
Cooling (1)	Capacity	high/mid/low	kW	2,64/2,23/1,68	3,94/3,43/3,07	5,09/4,36/3,58
	Flow of water	high/mid/low	m3/h	0,49/0,42/0,33	0,6/0,52/0,45	0,87/0,7/0,55
	Water pressure drop	high/mid/low	kPa	8,63/6,26/3,69	23,85/18,07/14,8	38,22/28,95/19,41
	Power input	high/mid/low	W	22/18/14	23/19/17	38/27/19
Heating (2)	Capacity	high/mid/low	kW	3,85/3,27/2,53	4,86/3,94/3,24	6,49/5,3/4,01
	Flow of water	high/mid/low	m^3/h	0,5/0,42/0,32	0,59/0,49/0,42	0,86/0,67/0,48
	Water pressure drop	high/mid/low	kPa	7,72/5,75/3,28	20,12/15,50/12,42	32,36/24,57/16,37
	Power input	high/mid/low	W	16/11/8	16/12/10	31/20/12
Sound pressure level (3)		high/mid/low	dB(A)	44,3/40,6/33,5	36,6/32,6/30,04	44,6/38,6/33,1
Heat exchanger	No. of rows			2	2	2
	Max. operating pressure		MPa	1,6	1,6	1,6
Panel	Dimensions	width x height x length	mm	1181x60x466	1350x25x505	1350x25x505
	Weight		kg	3,5	4	4
Indoor unit	Dimensions	width x height x length	mm	1055x169x425	1275x206x452	1275x206x452
	Weight		kg	12,5	17,5	17,5
Connections	Hydraulic connections inlet/outlet		cal	RC1/2	RC1/2	RC1/2
	Drainage		mm	ϕ25	ϕ25	ϕ25

NOXA AQUA

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 / cooling 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-B (2P)
KJR-18B/E-D (4P)

Optional control

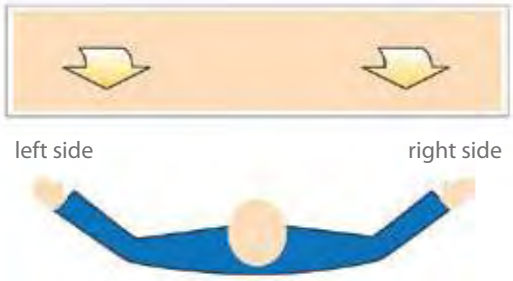
PCB
connection set

Any
other
controller

Wireless remote controller (OPTION)	Wired remote controller (OPTION)	Central controller (OPTION)	Advanced control system (OPTION)
RM05/BG(T)E-A (required FCUKZ-03(04)	Colour Touch Simple Touch Easy Touch Easy Control	CCM30	LonGW64/E CCM08 CCM18

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.

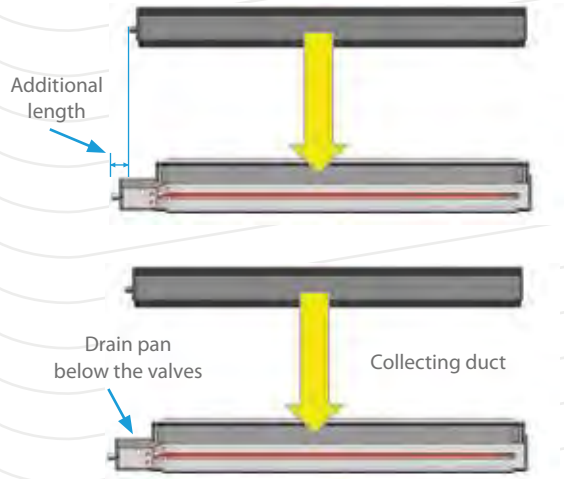


EASE OF INSTALLATION

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.

"DISTRICT" - 2-PIPE SYSTEM - AC VERSION

Model				NXKS4-200G30	NXKS4-300G30	NXKS4-400G30	NXKS4-500G30	NXKS4-600G30
Zasilanie			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m³/h	430/380/340	600/540/480	700/630/520	900/810/720	1160/1040/930
External static pressure			Pa	30	30	30	30	30
Cooling (1)	Capacity	high/mid/low	kW	2,05/1,74/1,55	2,61/2,21/1,98	4,03/3,42/3,06	4,57/3,88/3,47	6,39/5,43/4,85
	Flow of water		l/h	196	249	385	437	610,6
	Water pressure drop		kPa	10	10	21	25	53,8
Power input		high/mid/low	W	47/38/33	65/52/46	78/62/55	92/74/64	116/93/81
Sound pressure level (2)		high/mid/low	dB(A)	38/33/27	39/34/28	39/35/29	41/35/30	42/36/31
Heat exchanger	No. of rows			4	4	4	4	4
	Max. operating pressure		MPa	1,6	1,6	1,6	1,6	1,6
Indoor unit	Dimensions	width x height x length	mm	741x241x522	841x241x522	941x241x522	941x241x522	1161x241x522
	Weight		kg	15,3	17,5	20,7	20,7	23,5
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4
	Drainage		cal	R3/4	R3/4	R3/4	R3/4	R3/4

Parameters are based on the external static pressure of 30 Pa.
(1) Conditions for cooling: water inlet/outlet temperature 5,5/14,5°C, air temperature 27°CDB/19°CWB.
(2) Noise level measured in a semi-anechoic chamber.

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

Model				NXKT2-200G30A	NXKT2-300G30A	NXKT2-400G30A	NXKT2-500G30A
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	340/225/170	510/385/255	680/510/340	850/640/425
External static pressure			Pa	30	30	30	30
Cooling (1)	Capacity	high/mid/low	kW	2/1,74/1,52	2,7/2,31/2,03	3,6/3,11/2,66	4,43/3,74/3,25
	Flow of water		l/h	344	464	619	757
	Water pressure drop		kPa	5	11	19	22
Heating (2)	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
	Water pressure drop		kPa	4,2	9,5	15,5	18,3
Power input			W	45	60	67	89
Electric heater power			W	550	600	1100	1100
Sound pressure level (3)		high/mid/low	dB(A)	36/34/29	41/37/32	42/39	45/41/34
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 length	mm	741x241x522	841x241x522	941x241x522	941x241x522
	Weight without heater / with heater		kg	13,9/14,5	16,5/18	19,2/20,7	19,2/20,7
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4	RC3/4
	Drainage		cal	R3/4	R3/4	R3/4	R3/4

Model				NXKT2-600G30A	NXKT2-800G30A	NXKT2-1000G30A
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	1020/765/510	1360/1020/680	1700/1275/850
External static pressure			Pa	30	30	30
Cooling (1)	Capacity	high/mid/low	kW	5,5/4,58/4,09	7,5/6,33/5,68	8,9/7,61/6,41
	Flow of water		l/h	946	1290	1531
	Water pressure drop		kPa	14	14	22
Heating (2)	Capacity	high/mid/low	kW	8,1/6,77/5,92	11/9,48/8,25	13,5/11,72/10,03
	Water pressure drop		kPa	11,8	12,5	19
Power input			W	110	130	171
Electric heater power			W	1600	2000	2200
Sound pressure level (3)		high/mid/low	dB(A)	46/41/35	46/41/36	47/43/37
Heat exchanger	No. of rows			2	2	2
	Max. operating pressure		MPa	1,6	1,6	1,6
Unit	Dimensions	width x height x length	mm	1161x241x522	1461x241x522	1566x241x522
	Weight without heater / with heater		kg	22/24	30,9/33,4	33,4/36,4
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4
	Drainage		cal	R3/4	R3/4	R3/4

Parameters are based on the external static pressure of 30 Pa.
(1) Conditions for cooling: water inlet/outlet temperature 7°C/12°C, air temperature 27°CDB/19°CWB.
(2) Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
(3) Noise level measured in a semi-anechoic chamber.

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

Model				NXKT3-200FG30A	NXKT3-300FG30A	NXKT3-400FG30A	NXKT3-500FG30A	NXKT3-600FG30A
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
Airflow		high/mid/low	m³/h	340/225/170	510/385/255	680/510/340	850/640/425	1020/765/510
External static pressure			Pa	30	30	30	30	30
Cooling (1)	Capacity	high/mid/low	kW	2/1,76/1,52	2,7/2,35/2,13	3,6/3,15/2,76	4,3/3,74/3,32	5/4,32/3,84
	Flow of water		l/h	344	464	619	740	860
	Water pressure drop		kPa	7,6	14,4	8,2	9,5	17,2
Heating (2)	Capacity	high/mid/low	kW	3/2,64/2,22	4/3,4/3	5,2/4,47/3,9	5,7/5,02/4,33	7,2/6,19/5,33
	Flow of water		l/h	258	344	447	490	619
	Water pressure drop		kPa	6,8	12,5	23,5	24,0	40,7
Power input			W	49	64	75	96	114
Sound pressure level (3)		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 length	mm	741x241x522	841x241x522	941x241x522	941x241x522	1210x260x550
	Weight		kg	15,1	17,5	20,7	20,7	23,5
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4
	Drainage		cal	R3/4	R3/4	R3/4	R3/4	R3/4

Model				NXKT3-800FG30A	NXKT3-1000FG30A	NXKT3-1200FG30A	NXKT3-1400FG30A
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m³/h	1360/1020/680	1700/1275/850	2040/1530/1020	2380/1785/1190
External static pressure			Pa	30	30	30	30
Cooling (1)	Capacity	high/mid/low	kW	6,8/5,78/5,11	7,8/6,74/5,88	10,2/8,89/7,85	11,5/9,9/8,86
	Flow of water		l/h	1170	1342	1754	1978
	Water pressure drop		kPa	18,8	30,0	40,3	51,9
Heating (2)	Capacity	high/mid/low	kW	9,6/8,45/7,2	10,8/9,61/8,1	13,5/12,15/10,26	15,5/13,48/11,78
	Flow of water		l/h	826	929	1161	1333
	Water pressure drop		kPa	20,7	34,7	28,6	55,2
Power input			W	154	193	230	278
Sound pressure level (3)		high/mid/low	dB(A)	46/42/36	47/43/37	48/44/38	49/45/39
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 length	mm	1461x241x522	1566x241x522	1856x241x522	2022x241x522
	Weight		kg	32,4	34,9	40	43,6
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4	RC3/4
	Drainage		cal	R3/4	R3/4	R3/4	R3/4

Parameters are based on the external static pressure of 30 Pa.
(1) Conditions for cooling: water inlet/outlet temperature 7°C/12°C, air temperature 27°CDB/19°CWB.
(2) Conditions for heating: water inlet temperature 70°C, difference between inlet/outlet temperature 10°C, air inlet temperature 20°C.
(3) Noise level measured in a semi-anechoic chamber.

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

Model				NXKT3-200G12A NXKT3-200G30A	NXKT3-300G12A NXKT3-300G30A	NXKT3-400G12A NXKT3-400G30A	NXKT3-500G12A NXKT3-500G30A
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	340/225/170	510/385/255	680/510/340	850/640/425
External static pressure model G12/G30			Pa	12/30	12/30	12/30	12/30
Cooling (1)	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
	Flow of water		l/h	378	533	688	791
	Water pressure drop		kPa	14	26	18	24
Heating (2)	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
	Water pressure drop		kPa	10,5	21,8	16,9	22,3
Power input model G12/G30			W	33/49	53/64	66/75	87/93
Electric heater power			W	550	600	1100	1100
Sound pressure level model G12/G30 (3)		high/mid/low	dB(A)	35/32/26	36/33/27	37/34/28	40/36/30
				41/37/31	42/38/32	43/39/33	44/40/34
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 length	mm	741x241x522	841x241x522	941x241x522	1161x241x522
	Weight without heater / with heater		kg	14,6/16,1	17/18,5	20,2/21,7	23/25
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4	RC3/4
	Drainage		cal	R3/4	R3/4	R3/4	R3/4

Model				NXKT3-600G12A NXKT3-600G30A	NXKT3-800G12A NXKT3-800G30A	NXKT3-1000G12A NXKT3-1000G30A	NXKT3-1200G12A
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	1020/765/510	1360/1020/680	1700/1275/850	2040/1530/1020
External static pressure model G12/G30			Pa	12/30	12/30	12/30	12
Cooling (1)	Capacity	high/mid/low	kW	5,8/4,88/4,45	8,2/6,88/6,25	9/7,8/6,57	11/9,8/8,35
	Flow of water		l/h	998	1410	1548	1892
	Water pressure drop		kPa	36	39	32	39
Heating (2)	Capacity	high/mid/low	kW	9,8/8,6/7,4	13,6/11,97/10,2	16/14,24/12	20,1/18,27/15,43
	Water pressure drop		kPa	31,6	33,8	30,7	34,6
Power input model G12/G30			W	100/114	145/154	180/180	210/220
Electric heater power			W	1600	2000	2200	3200
Sound pressure level model G12/G30 (3)		high/mid/low	dB(A)	42/38/32	43/39/33	45/41/35	46/42/36
				45/41/35	46/42/36	47/43/37	
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 length	mm	1161x241x522	1461x241x522	1566x241x522	1856x241x522
	Weight without heater / with heater		kg	23/25	31,9/34,4	34,4/37,4	39,5/43
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4	RC3/4
	Drainage		cal	R3/4	R3/4	R3/4	R3/4

Parameters are based on the external static pressure of 12 Pa for model G12 and 30 Pa for model G30.
(1) Conditions for cooling: water inlet/outlet temperature 7°C/12°C, air temperature 27°CDB/19°CWB.
(2) Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
(3) Noise level measured in a semi-anechoic chamber.

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

Model				NXKT4-200G30A	NXKT4-300G30A	NXKT4-400G30A	NXKT4-500G30A
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m³/h	340/225/170	510/385/255	680/510/340	850/640/425
External static pressure			Pa	30	30	30	30
Cooling (1)	Capacity	high/mid/low	kW	2,5/2,16/1,87	3,3/2,85/2,47	4,4/3,72/3,22	4,8/4,18/3,64
	Flow of water		l/h	430	568	757	826
	Water pressure drop		kPa	2,6	5	8,1	9,8
Heating (2)	Capacity	high/mid/low	kW	4,1/3,51/3,03	5,8/5,05/4,35	7,1/6,11/5,33	8,5/7,04/6,28
	Water pressure drop		kPa	2,2	4,2	6,9	8,1
Power input			W	50	65	80	95
Sound pressure level (3)		high/mid/low	dB(A)	37/33/27	38/34/28	38/35/29	40/35/30
Heat exchanger	No. of rows			4	4	4	4
	Max. operating pressure		MPa	1,6	1,6	1,6	1,6
Unit	Dimensions	width x height x length	mm	741x241x522	841x241x522	941x241x522	941x241x522
	Weight		kg	15,3	17,5	20,7	20,7
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4	RC3/4
	Drainage		cal	R3/4	R3/4	R3/4	R3/4

Model				NXKT4-600G30A	NXKT4-800G30A	NXKT4-1000G30A	NXKT4-1200G30A
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m³/h	1020/765/510	1360/1020/680	1700/1275/850	2040/1530/1020
External static pressure			Pa	30	30	30	30
Cooling (1)	Capacity	high/mid/low	kW	6,2/5,38/4,65	8,8/7,43/6,57	9,5/8,18/7,06	11,8/9,82/8,74
	Flow of water		l/h	1066	1514	1634	2030
	Water pressure drop		kPa	15,4	12,3	18	21,2
Heating (2)	Capacity	high/mid/low	kW	10,5/9,03/7,77	14,5/12,38/10,88	16,3/13,45/12,05	16,5/14,05/12,23
	Water pressure drop		kPa	12,7	10	15,4	17,6
Power input			W	110	155	180	220
Sound pressure level (3)		high/mid/low	dB(A)	41/36/31	42/37/32	44/39/33	45/40/34
Heat exchanger	No. of rows			4	4	4	4
	Max. operating pressure		MPa	1,6	1,6	1,6	1,6
Unit	Dimensions	width x height x length	mm	1161x241x522	1461x241x522	1566x241x522	1856x241x522
	Weight		kg	23,5	32,9	35,4	40,5
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4	RC3/4
	Drainage		cal	R3/4	R3/4	R3/4	R3/4

Parameters are based on the external static pressure of 30 Pa.
(1) Conditions for cooling: water inlet/outlet temperature 7°C/12°C, air temperature 27°CDB/19°CWB.
(2) Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
(3) Noise level measured in a semi-anechoic chamber.

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

Model				NXKT2-V200	NXKT2-V300	NXKT2-V400	NXKT2-V500
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	439/295/221	615/439/310	792/622/413	887/620/443
Cooling (1)	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	high/mid/low	m^3/h	0,37/0,28/0,22	0,51/0,41/0,32	0,59/0,50/0,38	0,68/0,56/0,46
	Water pressure drop	high/mid/low	kPa	6,3/3,62/2,17	14,6/10,5/7,33	19,37/14,79/9,57	23,7/17,1/11,9
	Power input	high/mid/low	W	18/9/6	25/15/11	29/16/9	42/20/11
Heating (2)	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	high/mid/low	m^3/h	0,47/0,34/0,27	0,62/0,5/0,37	0,72/0,6/0,45	0,84/0,69/0,53
	Water pressure drop	high/mid/low	kPa	5,64/4,5/2,9	10,54/10,3/6,3	16,20/16,6/10	19,90/20,89/12,86
	Power input	high/mid/low	W	19/9/7	25/15/11	32/17/9	45/22/12
Heating (3)	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	high/mid/low	m^3/h	0,37/0,28/0,22	0,51/0,41/0,32	0,59/0,50/0,38	0,68/0,56/0,46
	Water pressure drop	high/mid/low	kPa	7,91/3,5/2,3	15,39/7,41/4,83	23/12,09/7,81	29,04/14,16/9,71
	Power input	high/mid/low	W	19/9/7	25/15/11	31/18/9	45/21/11
Sound pressure level (4)			dB(A)	37,5/27,4/24	40,3/33,1/26,7	41,3/34,7/26,8	41,1/34,7/26,8
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
Indoor unit	Dimensions	width x height x length	mm	741x241x522	841x241x522	941x241x522	941x241x522
	Weight		kg	16,5	18,5	20	20
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4	RC3/4
	Drainage			24	ϕ24	ϕ24	ϕ24

Model				NXKT2-V600	NXKT2-V800	NXKT2-V1000	NXKT2-V1200
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	1081/821/586	1492/1071/797	1824/1332/906	2327/1669/1135
Cooling (1)	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	high/mid/low	m^3/h	0,85/0,69/0,54	1,19/0,96/0,80	1,43/1,17/0,91	1,74/1,42/1,12
	Water pressure drop	high/mid/low	kPa	14,2/9,8/6,1	15,1/10,89/7,82	23,2/16,44/10,94	50,33/30,4/21,71
	Power input	high/mid/low	W	53/25/12	62/28/16	93/42/19	111/53/24
Heating (2)	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	high/mid/low	m^3/h	1,10/0,91/0,7	1,46/1,17/0,91	1,69/1,38/1,01	2,17/1,79/1,34
	Water pressure drop	high/mid/low	kPa	12,36/14,2/8,9	13,26/13,1/8,28	19,72/18,87/11,07	38,30/41,81/26,5
	Power input	high/mid/low	W	58/27/13	66/30/16	100/44/19	118/55/24
Heating (3)	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	high/mid/low	m^3/h	0,85/0,69/0,54	1,19/0,96/0,80	1,43/1,17/0,91	1,74/1,42/1,12
	Water pressure drop	high/mid/low	kPa	19,88/8,56/5,4	19,36/9,03/6,4	26,68/13,96/9,1	60,7/26,5/17,8
	Power input	high/mid/low	W	58/27/13	66/30/17	99/45/19	119/55/24
Sound pressure level (4)			dB(A)	46,1/38,9/29,9	47,7/39,4/31,1	50,2/43,0/33,0	50,9/44,0/33,8
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
Indoor unit	Dimensions	width x height x length	mm	1161x241x522	1461x241x522	1566x241x522	1856x241x522
	Weight		kg	22,2	31,4	32,5	37,5
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4	RC3/4
	Drainage		mm	ϕ24	ϕ24	ϕ24	ϕ24

(1) Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB, for the highest fan speed.
(2) Conditions for heating: water inlet/outlet temperature 45°C/40°C, air inlet temperature 20°CDB, for the highest fan speed.
(3) Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
(4) Noise level measured in a semi-anechoic chamber.
Factory default static pressure value: 12Pa. Values 30Pa and 50Pa can be set with use of the rotary switch.

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

Model				NXKT3-V200	NXKT3-V300	NXKT3-V400	NXKT3-V500
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	411/273/205	569/442/311	734/564/389	865/626/441
Cooling (1)	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	high/mid/low	m^3/h	0,43/0,31/0,25	0,6/0,48/0,37	0,69/0,57/0,43	0,79/0,63/0,50
	Water pressure drop	high/mid/low	kPa	13,6/8,6/6,3	23,8/16,4/11,3	13/9,3/5,8	16,4/11,3/7,6
	Power input	high/mid/low	W	17/9/6	20/12/7	26/15/9	39/19/11
Heating (2)	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	high/mid/low	m^3/h	0,49/0,35/0,26	0,67/0,54/0,41	0,82/0,67/0,50	0,92/0,73/0,57
	Water pressure drop	high/mid/low	kPa	12,6/7,6/4,9	25/17,6/11,3	13/10,5/6,2	18,4/12,4/8,1
	Power input	high/mid/low	W	18/9/6	23/15/10	26/16/9	43/21/11
Heating (3)	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	high/mid/low	m^3/h	0,43/0,32/0,25	0,60/0,18/0,37	0,69/0,57/0,43	0,79/0,63/0,53
	Water pressure drop	high/mid/low	kPa	10,3/6,1/4,2	19,2/12,9/8,5	10,8/7,7/4,8	13,7/9,5/6,3
	Power input	high/mid/low	W	18/9/7	23/15/10	28/16/9	43/21/11
Sound pressure level (4)			dB(A)	38,1/28,4/23,4	36,4/29,5/20,7	38,4/32,2/24,0	44,3/36,3/27,9
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
Indoor unit	Dimensions	width x height x length	mm	741x241x522	841x241x522	941x241x522	941x241x522
	Weight		kg	16,7	19	21	21
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4	RC3/4
	Drainage		mm	ϕ24	ϕ24	ϕ24	ϕ24

Model				NXKT3-V600	NXKT3-V800	NXKT3-V1000	NXKT3-V1200
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	1022/760/544	1425/1038/781	1824/1332/906	2134/1581/1083
Cooling (1)	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	high/mid/low	m^3/h	1,05/0,85/0,65	1,42/1,11/0,89	1,59/1,29/0,98	1,93/1,57/1,20
	Water pressure drop	high/mid/low	kPa	31,4/22/14,2	31,6/20,5/13,9	24,1/16,9/10,8	26,3/18,81/12,8
	Power input	high/mid/low	W	49/24/12	60/28/16	96/43/19	106/49/21
Heating (2)	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	high/mid/low	m^3/h	1,15/0,94/0,71	1,59/1,26/0,98	1,88/1,51/1,13	2,23/1,78/1,31
	Water pressure drop	high/mid/low	kPa	31,7/22,2/13,6	32,9/21,6/13,9	28,3/19,4/12	29,4/20/11,9
	Power input	high/mid/low	W	53/26/12	65/30/17	100/45/20	115/52/22
Heating (3)	Capacity	high/mid/low	kW	7,84/6,35/4,81	10,88/8,46/6,68	12,61/10,04/7,35	14,9/11,92/8,98
	Flow of water	high/mid/low	m^3/h	1,05/0,85/0,65	1,42/1,11/0,89	1,59/1,29/0,98	1,93/1,57/1,20
	Water pressure drop	high/mid/low	kPa	26,4/18,2/11,4	26,3/16,9/11,5	21,1/14,8/9,5	22,6/16/10,2
	Power input	high/mid/low	W	52/25/13	65/30/17	99/44/19	114/51/22
Sound pressure level (4)			dB(A)	46,1/39,0/30,3	44,9/36,1/27,7	47,8/40,7/30	48,9/41,8/31,7
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
Indoor unit	Dimensions	width x height x length	mm	1161x241x522	1461x241x522	1566x241x522	1856x241x522
	Weight		kg	23,7	33	34,7	39,2
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4	RC3/4
	Drainage		mm	ϕ24	ϕ24	ϕ24	ϕ24

(1) Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB, for the highest fan speed.
(2) Conditions for heating: water inlet/outlet temperature 45°C/40°C, air inlet temperature 20°CDB, for the highest fan speed.
(3) Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
(4) Noise level measured in a semi-anechoic chamber.
Factory default static pressure value: 12Pa. Values 30Pa and 50Pa can be set with use of the rotary switch.

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

Model				NXKT4-V200	NXKT4-V300	NXKT4-V400	NXKT4-V500
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	441/297/227	627/468/338	778/537/349	884/642/461
Cooling (1)	Capacity	high/mid/low	kW	2,22/1,59/1,2	3,19/2,58/1,87	4,06/3,26/2,41	4,46/3,56/2,78
	Flow of water	high/mid/low	m^3/h	0,40/0,30/0,23	0,57/0,47/0,34	0,72/0,59/0,43	0,80/0,63/0,50
	Water pressure drop	high/mid/low	kPa	2,44/1,52/1	5,24/3,61/2,36	8,4/5,9/3,49	11,6/8,1/5,6
	Power input	high/mid/low	W	17/9/6	21/12/7	29/16/9	38/19/11
Heating (2)	Capacity	high/mid/low	kW	2,81/2/1,54	3,88/3,09/2,35	4,33/3,54/2,6	5,44/4,23/3,23
	Flow of water	high/mid/low	m^3/h	0,51/0,37/0,29	0,67/0,56/0,42	0,84/0,68/0,51	0,96/0,76/0,57
	Water pressure drop	high/mid/low	kPa	2/1,76/1,2	4,3/4,29/2,8	7,7/7/4,2	10,64/9,83/6,68
	Power input	high/mid/low	W	18/9/7	23/13/8	32/18/10	41/22/12
Heating (3)	Capacity	high/mid/low	kW	3,23/2,32/1,75	4,5/3,6/2,68	5,6/4,59/3,36	6,25/4,88/3,74
	Flow of water	high/mid/low	m^3/h	0,40/0,30/0,23	0,57/0,47/0,34	0,72/0,59/0,43	0,80/0,63/0,50
	Water pressure drop	high/mid/low	kPa	2,99/1,20/0,71	5,85/3,1/1,9	9,1/4,9/2,8	14,06/7,6/5,5
	Power input	high/mid/low	W	19/9/6	23/13/8	32/18/10	42/21/11
Sound pressure level (4)			dB(A)	37,3/27,4/22,2	39,6/32,5/25,0	41,1/34,5/26,4	44,8/37,2/29,8
Fan motor	Type			DC	DC	DC	DC
Heat exchanger	No. of rows			4	4	4	4
	Max. operating pressure		MPa	1,6	1,6	1,6	1,6
Indoor unit	Dimensions	width x height x length	mm	741x241x522	841x241x522	941x241x522	941x241x522
	Weight		kg	17,8	20	21,9	21,9
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4	RC3/4
	Drainage		mm	ϕ24	ϕ24	ϕ24	ϕ24

Model				NXKT4-V600	NXKT4-V800	NXKT4-V1000	NXKT4-V1200
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	1056/793/575	1506/1084/822	1813/1341/932	2134/1617/119
Cooling (1)	Capacity	high/mid/low	kW	5,87/4,78/3,68	6,65/5,04/3,61	7,98/6,19/4,37	9,76/7,81/5,72
	Flow of water	high/mid/low	m^3/h	1,06/0,86/0,65	1,19/0,88/0,64	1,47/1,20/0,78	1,78/1,41/1,02
	Water pressure drop	high/mid/low	kPa	19,4/13,6/8,5	8,8/5,09/2,8	13,81/8,63/4,75	22,31/15/8,98
	Power input	high/mid/low	W	51/25/12	61/27/16	93/42/18	109/50/22
Heating (2)	Capacity	high/mid/low	kW	6,47/5,18/3,91	8,36/6,32/4,77	9,89/7,79/5,67	11,76/9,32/6,76
	Flow of water	high/mid/low	m^3/h	1,11/0,90/0,67	1,43/1,12/0,86	1,68/1,35/1,00	2,01/1,60/1,15
	Water pressure drop	high/mid/low	kPa	16,31/12,6/7,41	7,7/6,97/4,3	12,06/10,47/6,1	20,04/16,93/9,62
	Power input	high/mid/low	W	56/27/13	66/30/16	102/46/20	119/55/24
Heating (3)	Capacity	high/mid/low	kW	7,72/6,19/4,68	9,55/7,14/5,23	11,55/9/6,46	14,34/11,31/8,3
	Flow of water	high/mid/low	m^3/h	1,06/0,86/0,65	1,19/0,88/0,64	1,47/1,12/0,78	1,78/1,41/1,02
	Water pressure drop	high/mid/low	kPa	17,92/11,31/7	10,9/4,49/2,5	15,42/7,5/4,1	24,94/13,46/13,48
	Power input	high/mid/low	W	56/27/13	67/29/16	103/46/20	121/54/23
Sound pressure level (4)			dB(A)	46,1/39,4/30,7	47,4/39,1/32,1	50,4/42,7/33,1	50,7/43,8/34,5
Fan motor	Type			DC	DC	DC	DC
Heat exchanger	No. of rows			4	4	4	4
	Max. operating pressure		MPa	1,6	1,6	1,6	1,6
Indoor unit	Dimensions	width x height x length	mm	1161x241x522	1461x241x522	1566x241x522	1856x241x522
	Weight		kg	25	34,8	36,4	41,9
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4	RC3/4
	Drainage		mm	ϕ24	ϕ24	ϕ24	ϕ24

(1) Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB, for the highest fan speed.
(2) Conditions for heating: water inlet/outlet temperature 45°C/40°C, air inlet temperature 20°CDB, for the highest fan speed.
(3) Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
(4) Noise level measured in a semi-anechoic chamber.
Factory default static pressure value: 12Pa. Values 30Pa and 50Pa can be set with use of the rotary switch.

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

Model				NXKT3-V200F	NXKT3-V300F	NXKT3-V400F	NXKT3-V500F
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	320/210/140	450/340/280	320/230/160	690/470/370
Cooling	Capacity	high/mid/low	kW	1,4/1,1/0,8	2,2/1,7/1,5	2,5/2,0/1,5	3,0/2,4/1,9
	Flow of water		l/h	270	380	470	540
	Water pressure drop		kPa	10,2	10,5	11,3	13,6
Heating	Capacity	high/mid/low	kW	2,1/1,7/1,4	3,0/2,6/2,1	3,7/3,2/2,5	4,4/3,6/3,0
	Water pressure drop		kPa	8,9	9,1	10,1	11,7
Power input			W	16	21	28	36
Sound pressure level	12Pa	high/mid/low	dB(A)	35/25/23	36/29/23	38/32/24	43/35/27
	30Pa	high/mid/low	dB(A)	41/32/25	39/30/25	44/38/28	46/37/30
	50Pa	high/mid/low	dB(A)	43/34/26	44/36/26	47/41/28	48/42/33
Heat exchanger	No. of rows			3	3	3	3
	Max. operating pressure		MPa	1,6	1,6	1,6	1,6
Indoor unit	Dimensions	width x height x length	mm	741x241x522	841x241x522	941x241x522	941x241x522
	Weight		kg	17,2	19,5	21,5	21,5
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4	RC3/4
	Drainage			24	ϕ24	ϕ24	ϕ24

Model				NXKT3-V600F	NXKT3-V800F	NXKT3-V1000F	NXKT3-V1200F
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	900/670/440	1240/840/670	1610/1160/790	1850/1400/970
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
	Water pressure drop		kPa	12,7	12,0	15,5	25,73
Power input			W	45	57	87	95
Sound pressure level	12Pa	high/mid/low	dB(A)	46/39/30	46/38/30	48/41/31	47/40/30
	30Pa	high/mid/low	dB(A)	49/41/33	49/43/33	49/42/33	50/42/34
	50Pa	high/mid/low	dB(A)	51/44/39	52/45/37	51/44/35	53/45/37
Heat exchanger	No. of rows			3	3	3	3
	Max. operating pressure		MPa	1,6	1,6	1,6	1,6
Indoor unit	Dimensions	width x height x length	mm	1161x241x522	1461x241x522	1566x241x522	1856x241x522
	Weight		kg	24,2	33,5	35,2	39,7
Connections	Hydraulic connections inlet/outlet		cal	RC3/4	RC3/4	RC3/4	RC3/4
	Drainage		mm	ϕ24	ϕ24	ϕ24	ϕ24

(1) Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB.
(2) Conditions for heating: water inlet/outlet temperature 45°C/40°C, air inlet temperature 20°CDB, for the highest fan speed.
(3) Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
(4) Noise level measured in a semi-anechoic chamber.

NOXA AQUA

DUCTED
FAN-COIL UNITS
CONTROL

Colour Touch Controller

Model: FT-CS01

FEATURES

· Attractive colour touch-screen
· Heating, cooling, heating/cooling setting, fan mode setting
· Manually adjusted 3-speed and automatic fan speed control
· Weekly timer 5 + 1 + 1
· Clock and date display
· 4-pipe and 2-pipe (optional)
· 0-10V (optional)
· RS-485, Modbus (optional)
· Key-card (optional)
· Installation 86x86 mm
· Available in silver, black and white colour

Technical data			
Power supply	230V, 24V 50/60Hz	Backlight	colour
Energy consumption	1,5A	Sensor	NTC 10 Kohms 250°C
Temperature setting range	5°C to 35°C	Accuracy	±0,50°C
Ambient temperature	0°C to 50°C	Protection class	IP30
Relative humidity	85%	Casing	ABS UL94-5 fireproof plastic

Simple Touch controller

Model: T29MTW-7-S-485

FEATURES

· Temperature display
· Heating/cooling mode setting
· Fan speed setting
· Weekly timer (temperature programming in two periods during week)
· Child protection of the display
· Window/room contact

Technical data			
Power supply	230V, 24V 50/60Hz	Operating temperature range	0°C to 50°C
Energy consumption	1,5A	Shipment and storage temperature	-10°C do -60°C
Temperature setting range	5°C to 35°C	Temperature accuracy	0,1°C
Temperature setting accuracy	0,5°C		
Temperature display range	0°C to 50°C		

NOXA AQUA

DUCTED
FAN-COIL UNITS
CONTROL

Easy Touch controller
Model: FT-02

FEATURES

- Heating/cooling mode setting
- Manually adjusted 3-speed and automatic fan speed control
- Wall installation
- 4-pipe and 2-pipe (option)
- 7 days schedule (option)
- Modbus (option)
- Key-card (option)

Technical data			
Power supply	230V, 24V 50/60Hz	Backlight	blue
Energy consumption	1,5A	Sensor	NTC 10, 39500m at 25°C
Temperature setting range	10°C to 30°C	Accuracy	±1°C (step at +0,5°C)
Ambient temperature	0,5°C to 50°C	Protection class	IP30
Relative humidity	85%	Casing	ABS

Easy Control controller
Model: KJR-1 8
(KJR-18B/E-B for 2-pipe systems, KJR-18B/E-D for 4-pipe systems)

FEATURES

- Compatible with ducted unit without the additional electric heater
- Operating mode switching: cooling/heating/off
- Fan mode switching: high/medium/low
- On/Off setting

Technical data			
Power supply	AC220V±10%, 50/60Hz	Backlight	blue
Energy consumption	1(0,5)A	Accuracy	±1 °C
Temperature setting range	10°C to 30°C	Cable cross section	0.5~2.5mm²
Ambient temperature	0°C to 45°C	Dimensions	130x85x43mm
Relative humidity	5%~90%	Hole pitch	60mm

NOXA AQUA

WALL-MOUNTED
FAN-COIL UNITS

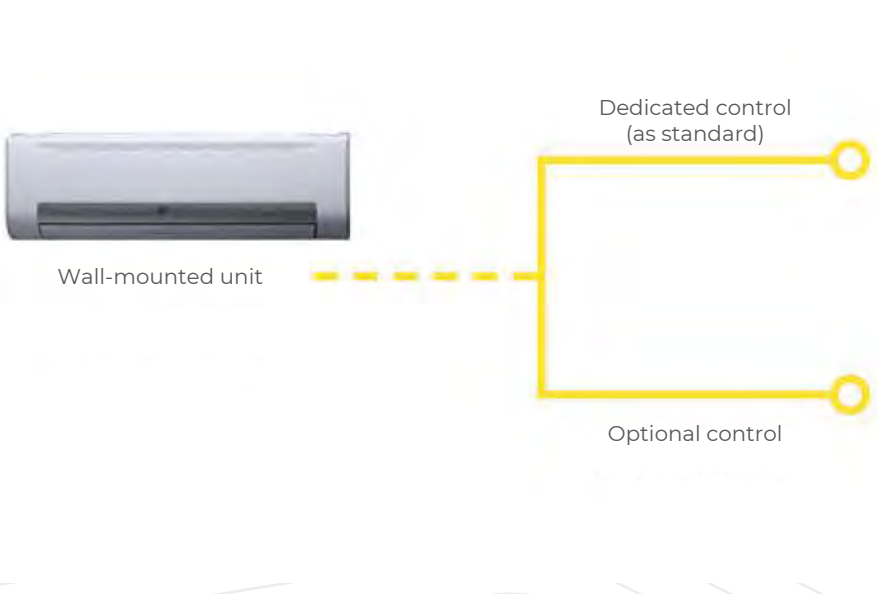
Wall-mounted “S” type unit

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.



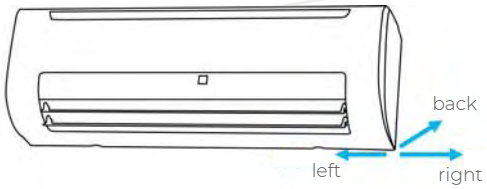
Wireless remote controller (STANDARD)	Wired remote controller (OPTION)	Central controller (OPTION)	Advanced control system (OPTION)
RM05/BG(T)E-A	KJR-29B/BK-E	CCM30	LonGW64/E CCM08 CCM18

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.

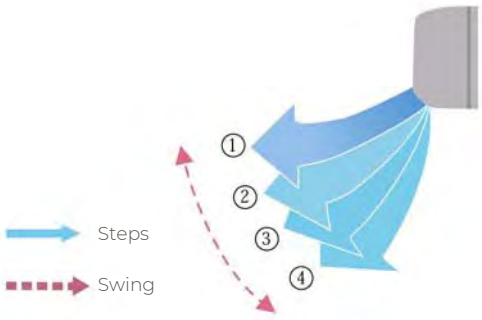


EASY ACCESS AND SERVICE

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 - AC VERSION

Model				NXKG-250-BA	NXKG-300-BA	NXKG-400-BA	NXKG-500-BA	NXKG-600-BA
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
Airflow		high/mid/low	m³/h	425/390/350	510/470/390	400/325/270	850/745/620	1020/915/780
Cooling (1)	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 (2)	Capacity	high/mid/low	kW	3,36/3,12/2,79	3,91/3,26/2,77	4,37/3.73/3,17	5,81/5,17/4,43	6,7/6/5,28
	Water pressure drop		kPa	27,3	32,9	40,8	30,2	39,7
Power input			kW	0,024	0,037	0,040	0,050	0,066
Sound pressure level (3)		high/mid/low	dB(A)	30/24/20	35/29/29	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
Indoor unit	Dimensions	width x height x length	mm	915x290x230	915x290x230	915x290x230	1072x315x230	1072x315x230
	Weight		kg	13	13	13,3	15,8	15,8
Connections	Hydraulic connections inlet/outlet		cal	G3/4	G3/4	G3/4	G3/4	G3/4
	Drainage		mm	ϕ20	ϕ20	ϕ20	ϕ20	ϕ20

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

C TYPE - 2-PIPE SYSTEM - AC VERSION

Model				NXKG-250-A	NXKG-300-A	NXKG-400-A	NXKG-500-A	NXKG-600-A
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
Airflow		high/mid/low		425/360/320	510x430x380	680/580/510	500/420/380	600/510/450
Cooling (1)	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 (2)	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
	Water pressure drop		kPa	10	16,4	20,8	25,1	27,9
Power input			kW	0,028	0,040	0,044	0,050	0,060
Sound pressure level (3)		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
Indoor unit	Dimensions	width x height x length	mm	915x210x316	915x210x290	915x210x290	1070x210x316	1070x210x316
	Weight		kg	12	12	12	15	15
Connections	Hydraulic connections inlet/outlet		cal	G3/4	G3/4	G3/4	G3/4	G3/4
	Drainage		mm	ϕ20	ϕ20	ϕ20	ϕ20	ϕ20

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

S TYPE - 2-PIPE SYSTEM - DC VERSION

Model				NXKG-V250-B	NXKG-V300-B	NXKG-V400-B	NXKG-V500-B	NXKG-V600-B
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
Airflow			m^3/h	492/454/400	585/485/413	825/689/590	862/741/634	979/849/717
Cooling (1)	Capacity	high/mid/low	kW	2,7/2,59/2,39	2,91/2,54/2,19	3,81/3,3/2,88	4,47/3,98/3,48	4,87/4,26/3,79
	Flow of water	high/mid/low	m^3/h	0,48/0,46/0,42	0,51/0,45/0,38	0,67/0,57/0,51	0,77/0,68/0,61	0,85/0,72/0,65
	Water pressure drop	high/mid/low	kPa	31,61/28,63/25,36	37,2/29,73/23,36	56,75/41,23/33,02	41,17/33,54/27,05	50,68/39,47/33,66
	Power input	high/mid/low	W	13/11/10	15/11/9	34/22/15	26/18/13	38/26/18
Heating (2)	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	high/mid/low	m^3/h	0,51/0,49/0,46	0,56/0,49/0,42	0,73/0,64/0,56	0,84/0,73/0,64	0,89/0,80/0,68
	Water pressure drop	high/mid/low	kPa	32,66/34,89/30,02	34,12/31,53/25,1	51,86/47,53/35,69	36,82/33,83/26,26	47,12/42,75/32,95
	Power input	high/mid/low	W	11/11/9	14/10/8	31/20/14	22/16/12	33/23/16
Heating (3)	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	6,13/5,57/4,77
	Flow of water	high/mid/low	m^3/h	0,48/0,46/0,42	0,51/0,45/0,38	0,67/0,57/0,51	0,77/0,68/0,61	0,85/0,72/0,65
	Water pressure drop	high/mid/low	kPa	37,49/30,25/26,53	40,64/27/0,3/20,9	61,94/37,88/30,34	43,74/29,69/23,98	51,65/36,3/30,3
	Power input	high/mid/low	W	12/10/8	14/10/8	31/20/14	23/16/12	33/23/16
Sound pressure level (4)		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
Indoor unit	Dimensions	width x height x length	mm	915x290x230	915x290x230	915x290x230	1072x315x230	1072x315x230
	Weight		kg	12,7	12,7	12,7	15,1	14,9
Connections	Hydraulic connections inlet/outlet		cal	G3/4	G3/4	G3/4	G3/4	G3/4
	Drainage		mm	ϕ20	ϕ20	ϕ20	ϕ20	ϕ20

(1) Conditions for cooling: water temperature 7/12°C, air temperature 27°CDB/19°CWB, for the highest fan speed.
(2) Conditions for heating: water inlet/outlet temperature 45°C/40°C, air inlet temperature 20°CDB, for the highest fan speed.
(3) Conditions for heating: water inlet temperature 50°C, air inlet temperature 20°CDB, flow of water same as for cooling.
(4) Noise level measured in a semi-anechoic chamber.

C TYPE - 2-PIPE SYSTEM - DC VERSION

Model				NXKG-V250	NXKG-V300	NXKG-V400	NXKG-V500	NXKG-V600
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
Airflow		high/mid/low	m^3/h	425/410/320	510/427/349	680/550/504	850/692/586	1020/820/670
Cooling (1)	Capacity	high/mid/low	kW	2,2/2,2/1,97	2,64/2,48/2,06	3,08/2,90/2,66	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 (2)	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
	Water pressure drop		kPa	22	31,4	40	29,7	32,8
Power input			W	10,7	14,3	33	28	37,5
Sound pressure level (3)		high/mid/low	dB(A)	30/26/23	32/28/25	36/33/29	38/34/30	40/36/31
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
Indoor unit	Dimensions	width x height x length	mm	915x290x210	915x290x210	915x290x210	1070x315x210	1070x315x210
	Weight		kg	12	12	12	14,7	14,8
Connections	Hydraulic connections inlet/outlet		cal	G3/4	G3/4	G3/4	G3/4	G3/4
	Drainage		mm	ϕ20	ϕ20	ϕ20	ϕ20	ϕ20

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

NOXA AQUA

CEILING-FLOOR
FAN-COIL UNITS

Suspended version (H2 series)

Standing version (H2 series)

Embedded version (H3 series)

2nd GENERATION

2nd generation units are available for models with 3- or 4-row heat exchangers. This units are provided in two versions: with or without the casing and therefore they meet the requirements of all customers. 2nd generation units have rich functionality that brings comfort to the user.

PRODUCT FEATURES

- Flexible installation.
- Designed for horizontal or vertical installation, with connection from the left or right side.
- Very slim devices - only 200 mm depth.
- Higher performance and low operational noise - thanks to the DC fan motor, the unit consumes less energy and generates lower noise level during operation.
- Compliant with the CE requirements.

STANDING VERSION (H2 SERIES)

DEDICATED CONTROL

KJRP-75A/BK-E (DC)

TERMOSTAT KJR -15B/E

DEDICATED CONTROL

KJRP-86A/BMFNKD-E (AC)

ANY OTHER CONTROLLER

Wired remote controller (OPTION)	Central controller (OPTION)	Advanced control system (OPTION)
KJRP-75A/BK-E (DC) KJRP-86A/BMFNKD-E (AC)	CCM30	CCM08 CCM18

CONTROL FUNCTIONS

- Operation can be set in the following modes: heat, cool, dry or auto.
- Temperature setting accuracy: 0,5°C.
- Backlit buttons.
- 7 fan speeds - function available with the new KJRP-75A/BK-E controller, dedicated for 2nd generation units.
- Centralised control and ModBus - central control functions can be connected through the network interface, when ModBus can be connected through the reserve port.

KJRP-75A/BK-E

STANDARD PCB BOARD COMPATIBLE WITH MAJORITY OF FUNCTIONS

- Forced fan function - operation with or without the forced fan can be set on the PCB board.
- Setting temperature hysteresis - the temperature hysteresis can be set for heating and cooling mode with use of a switch located on the PCB board.

NOMENCLATURE

NX K H2 —V 150 R3 F

F: 4-pipe

No. of rows in heat exchanger
R3: 3-row
R4: 4-row

Rated airflow (CFM)

Motor:
V: DC
None: AC

Type code:
H2: with casing
H3: without casing

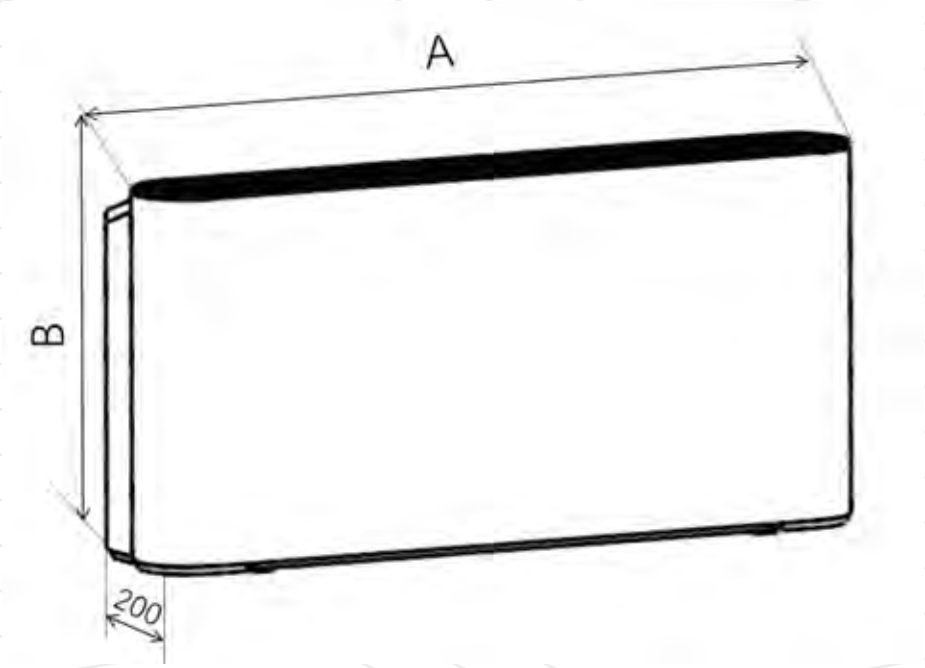
Fan-coil

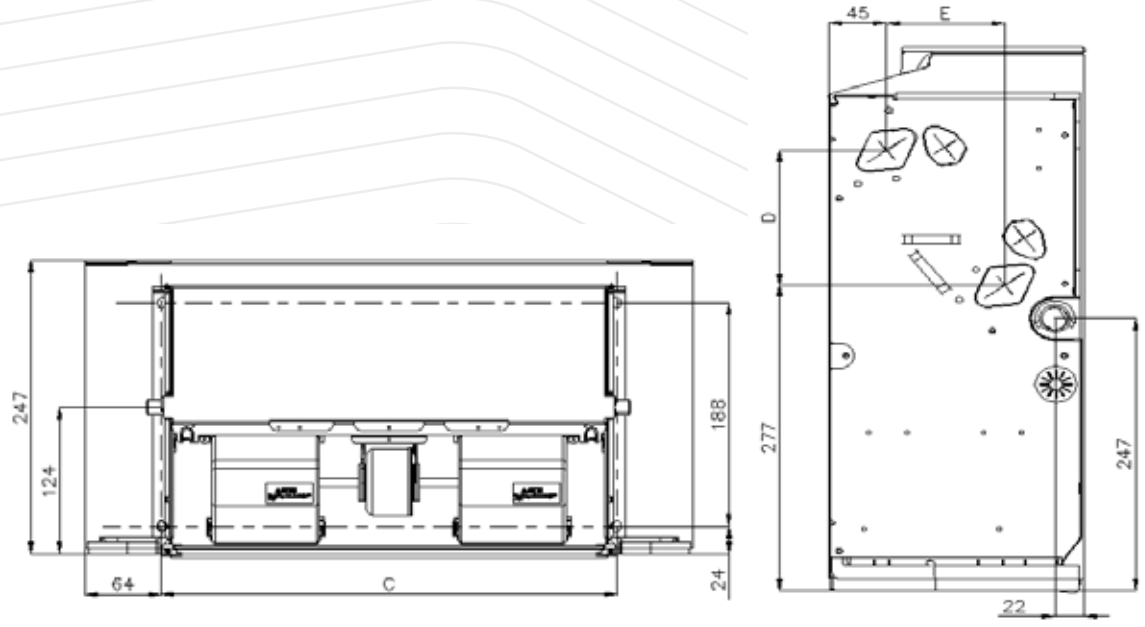
NX: NOXA

UNIT DIMENSIONS

2-PIPE UNITS WITH DC MOTOR (MODEL WITH 3- AND 4-ROW HEAT EXCHANGER)

Model with casing





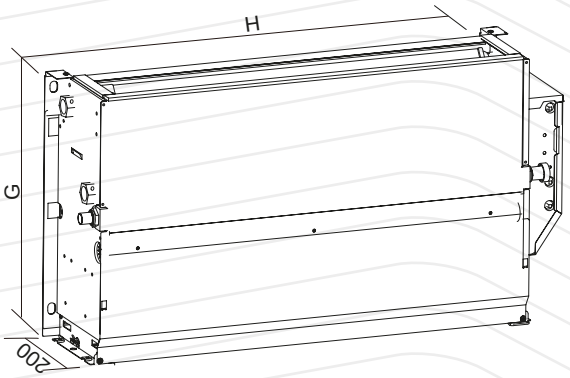
DIMENSIONS [mm]:

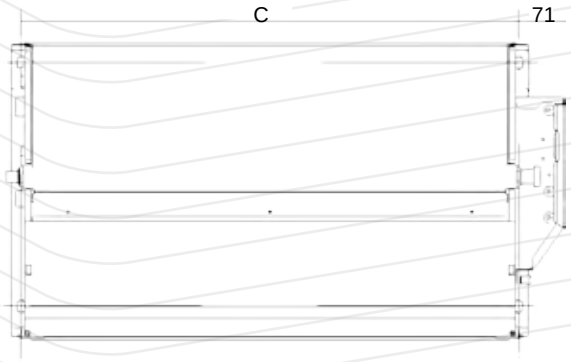
Model	NXKH2-V150	NXKH2-V250	NXKH2-V350	NXKH2-V500	NXKH2-V700	NXKH2-V800
A	790	1020	1240	1240	1360	1360
B	495	495	495	495	495	591
C	523	793	973	973	1093	1093
D	123	123	123	123	123	219
E	93	93	93	93	93	102

UNIT DIMENSIONS

2-PIPE UNITS WITH DC MOTOR (MODEL WITH 3- AND 4-ROW HEAT EXCHANGER)

Model without casing





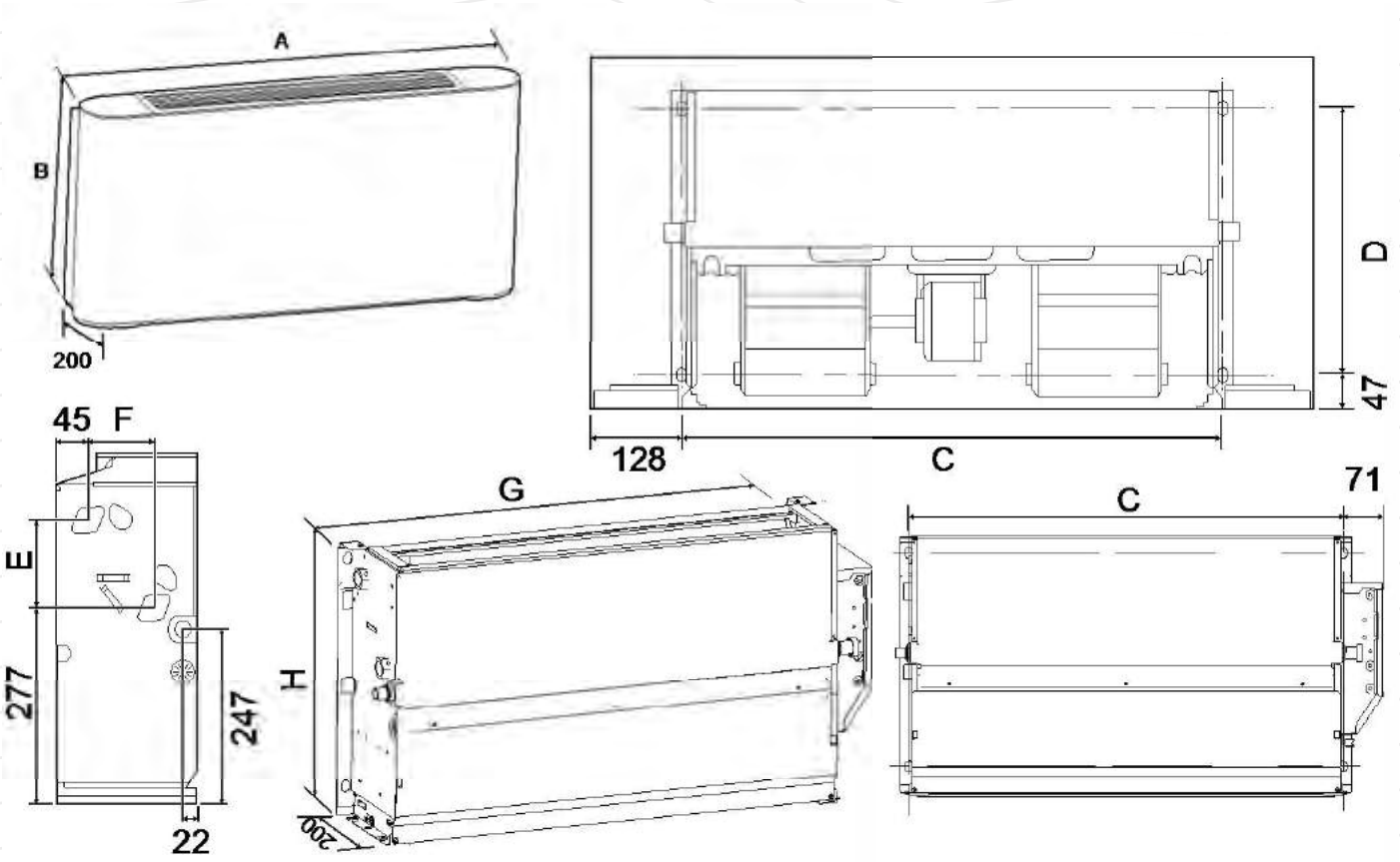
DIMENSIONS [mm]:

Model	NXKH3-V150	NXKH3-V250	NXKH3-V350	NXKH3-V500	NXKH3-V700	NXKH3-V800
C	523	793	973	973	1093	1093
G	455	455	455	455	455	551
H	858	1088	1088	1308	1428	1428

UNIT DIMENSIONS

4-PIPE UNITS WITH DC MOTOR (MODEL WITH 4-ROW HEAT EXCHANGER)

Model with and without casing



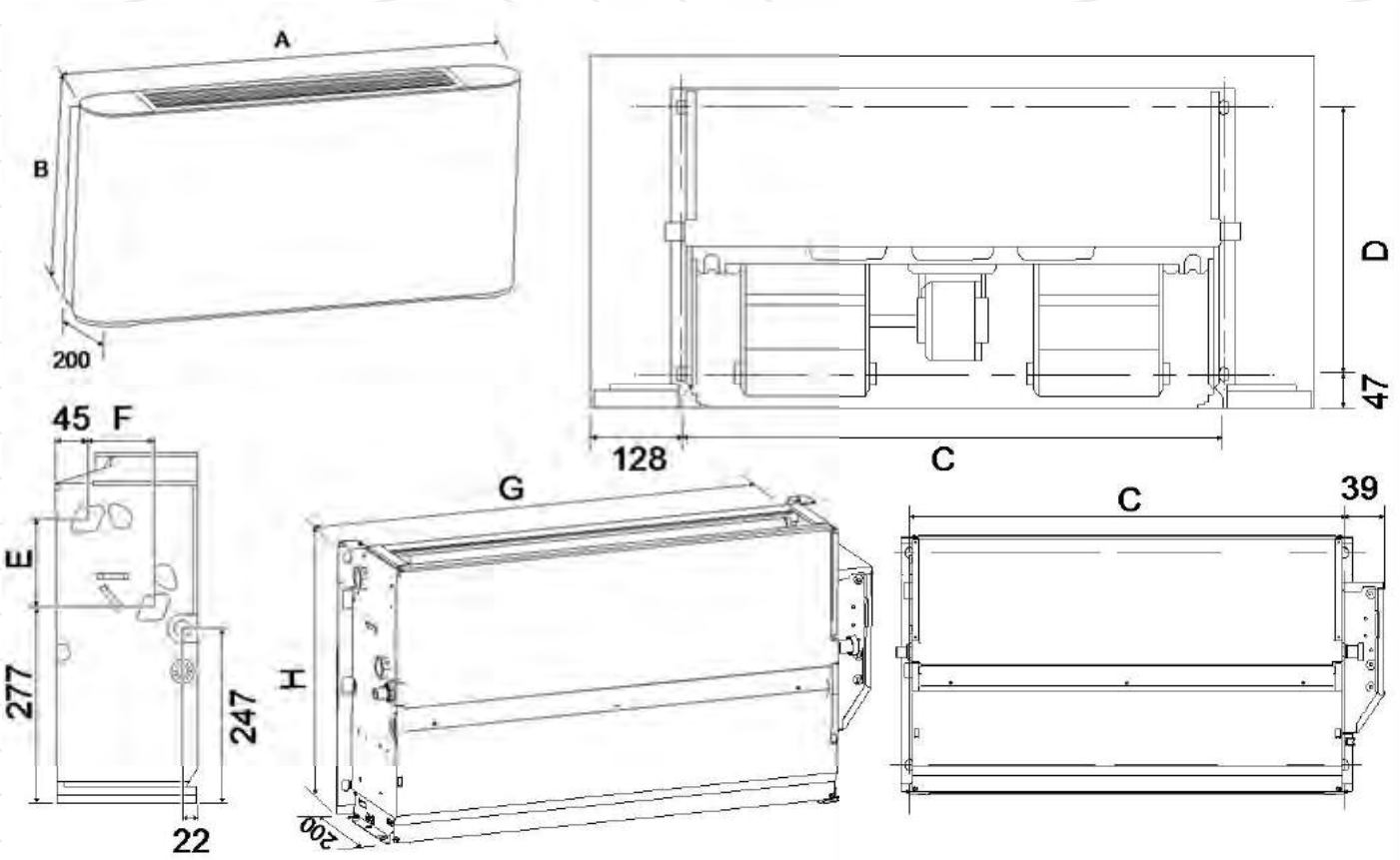
DIMENSIONS [mm]:

Model	NXKH2-V150F NXKH3-V150F	NXKH2-V250F NXKH3-V250F	NXKH2-V350F NXKH3-V350F	NXKH2-V500F NXKH3-V500F	NXKH2-V700F NXKH3-V700F	NXKH2-V800F NXKH3-V800F
A	790	1020	1240	1240	1360	1360
B	495	495	495	495	495	591
C	534	764	984	984	1104	1104
D	375	375	375	375	375	391
E	123	123	123	123	123	219
F	93	93	93	93	93	102
G	628	858	1078	1078	1198	1198
H	455	455	455	455	455	551

UNIT DIMENSIONS

2-PIPE UNITS WITH AC MOTOR (MODEL WITH 3- AND 4-ROW HEAT EXCHANGER)

Model with and without casing



DIMENSIONS [mm]:

Model	NXKH2-150 NXKH3-150	NXKH2-250 NXKH3-250	NXKH2-350 NXKH3-350	NXKH2-500 NXKH3-500	NXKH2-700 NXKH3-700	NXKH2-800 NXKH3-800
A	790	1020	1240	1240	1360	1360
B	495	495	495	495	495	591
C	534	764	984	984	1104	1104
D	375	375	375	375	375	391
E	123	123	123	123	123	219
F	93	93	93	93	93	102
G	628	858	1078	1078	1198	1198
H	455	455	455	455	455	551

2-PIPE SYSTEM - AC VERSION

Model				NXKH2-150-R3 NXKH3-150-R3	NXKH2-150-R4 NXKH3-150-R4	NXKH2-250-R3 NXKH3-250-R3	NXKH2-250-R4 NXKH3-250-R4
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	255/165/142	255/192/139	400/273/180	425/284/184
		high/mid/low	CFM	150/97/84	150/113/82	235/161/106	250/167/109
Cooling	Capacity	high/mid/low	kW	1,65/1,22/1,09	2,25/1,85/1,46	2,65/2,02/1,4	3,05/2,26/1,63
	Flow of water	high/mid/low	m^3/h	0,28/0,20/0,18	0,38/0,31/0,25	0,45/0,34/0,26	0,52/0,38/0,28
	Water pressure drop	high/mid/low	kPa	22,11/13,10/10,35	49,29/33,22/21,74	18,19/11,29/5,53	33,66/19,73/10,61
Heating	Capacity	high/mid/low	kW	1,85/1,29/1,13	2,35/1,87/1,40	3,05/2,25/1,52	3,15/2,09/1,38
	Flow of water	high/mid/low	m^3/h	0,31/0,22/0,19	0,40/0,32/0,24	0,52/0,38/0,26	0,54/0,35/0,23
	Water pressure drop	high/mid/low	kPa	16,18/8,79/7,11	36,51/24,61/16,1	17,00/9,95/5,26	25,84/13,93/6,77
Input current		high/mid/low	W	35/17/14	40/24/15	47/26/14	47/26/14
Power input		high/mid/low	A	0,15/0,07/0,06	0,17/0,10/0,07	0,20/0,11/0,06	0,20/0,11/0,06
Sound power level		high/mid/low	dB(A)	47/35/34	53/47/39	46/37/31	47/38/32
H2 model with casing		height x depth x width	mm	495x200x790	495x200x790	495x200x1020	495x200x1020
		net/gross weight	kg	16,3/21,8	16,7/22,2	20/26	20,8/26,8
H3 model without casing		height x depth x width	mm	455x200x607	455x200x607	455x200x837	455x200x837
		net/gross weight	kg	11,6/15,9	12,0/16,3	13,9/19,4	14,8/20,3
Exchanger	No. of rows			3	4	3	4
Connections	Hydraulic connections inlet/outlet		cal	G3/4	G3/4	G3/4	G3/4
	Drainage		mm	Φ18,5	Φ18,5	Φ18,5	Φ18,5

Model				NXKH2-350-R3 NXKH3-350-R3	NXKH2-350-R4 NXKH3-350-R4	NXKH2-500-R3 NXKH3-500-R3	NXKH2-500-R4 NXKH3-500-R4
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	595/447/319	595/450/319	790/560/392	800/574/404
		high/mid/low	CFM	350/263/188	350/265/188	465/300/231	471/338/238
Cooling	Capacity	high/mid/low	kW	3,85/3,19/2,46	4,20/3,38/2,48	4,65/3,8/2,92	5,35/4,25/3,31
	Flow of water	high/mid/low	m^3/h	0,66/0,54/0,42	0,72/0,58/0,42	0,79/0,65/0,5	0,91/0,72/0,56
	Water pressure drop	high/mid/low	kPa	44,15/31,32/19,59	44,3/29,14/16,91	61,58/43,35/27,41	68,61/46,24/29,71
Heating	Capacity	high/mid/low	kW	3,70/2,97/2,25	4,10/3,25/2,39	4,35/3,44/2,62	5,70/4,36/3,22
	Flow of water	high/mid/low	m^3/h	0,63/0,51/0,38	0,70/0,55/0,40	0,74/0,59/0,44	0,97/0,74/0,55
	Water pressure drop	high/mid/low	kPa	37,30/26,07/15,66	39,56/26,06/14,63	54,6/35,94/22,4	59,39/36,80/21,25
Input current		high/mid/low	W	51/32/19	51/32/19	91/54/34	91/54/35
Power input		high/mid/low	A	0,22/0,14/0,08	0,22/0,14/0,08	0,40/0,24/0,15	0,40/0,24/0,15
Sound power level		high/mid/low	dB(A)	52/44/36	52/45/37	59/51/43	59/51/43
H2 model with casing		height x depth x width	mm	495x200x1240	495x200x1240	495x200x1240	495x200x1240
		net/gross weight	kg	24/31	25,4/32,4	24/31	25,4/32,4
H3 model without casing		height x depth x width	mm	455x200x1057	455x200x1057	455x200x1057	455x200x1057
		net/gross weight	kg	17,3/24	18,2/24,9	17,9/24,6	18,8/25,5
Exchanger	No. of rows			3	4	3	4
Connections	Hydraulic connections inlet/outlet		cal	G3/4	G3/4	G3/4	G3/4
	Drainage		mm	Φ18,5	Φ18,5	Φ18,5	Φ18,5

1. high/mid/low - fan speeds.
2. Conditions for cooling: water inlet/outlet temperature 7°/12°, air temperature 27°CDB/19°CWB.
3. Conditions for heating: water inlet temperature 45°/40°, air inlet temperature 20°CDB.
4. Noise level measured in a semi-anechoic chamber.

2-PIPE SYSTEM - AC VERSION

Model				NXKH2-700-R3 NXKH3-700-R3	NXKH2-700-R4 NXKH3-700-R4	NXKH2-800-R3 NXKH3-800-R3	NXKH2-800-R4 NXKH3-800-R4
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	1190/855/555	1150/885/591	1300/1088/782	1300/1132/836
		high/mid/low	CFM	700/503/327	677/512/348	766/641/461	766/667/492
Cooling	Capacity	high/mid/low	kW	6,00/5,03/3,71	6,75/5,80/4,24	7,35/6,51/5,51	8,25/7,52/5,87
	Flow of water	high/mid/low	m^3/h	1,02/0,86/0,63	1,15/0,99/0,72	1,26/1,11/0,884	1,41/1,289/1,0
	Water pressure drop	high/mid/low	kPa	62,13/42,69/24,44	46,5/33,73/18,66	48,82/39,82/25,03	74,76/63,53/40,28
Heating	Capacity	high/mid/low	kW	6,15/4,92/3,49	7,15/5,81/4,04	8,20/7,09/5,46	8,50/7,60/5,72
	Flow of water	high/mid/low	m^3/h	1,05/0,84/0,59	1,22/0,99/0,69	1,40/1,21/0,937	1,45/13,0/0,98
	Water pressure drop	high/mid/low	kPa	60,74/40,46/22,16	44,27/30,11/15,39	46,11/35,24/20,65	65,06/49,83/30,28
Input current		high/mid/low	W	123/98/68	110/89/64	123/109/83	118/104/82
Power input		high/mid/low	A	0,53/0,42/0,30	0,48/0,39/0,28	0,53/0,47/0,36	0,51/0,45/0,36
Sound power level		high/mid/low	dB(A)	63/56/45	62/56/46	62/58/50	62/58/50
H2 model with casing		height x depth x width	mm	495x200x1360	495x200x1360	591x200x1360	591x200x1360
		net/gross weight	kg	27,3/34,8	28,5/36,0	31,7/40,2	34,0/42,0
H3 model without casing		height x depth x width	mm	455x200x1177	455x200x1177	550x200x1177	550x200x1177
		net/gross weight	kg	20,5/27,3	21,7/28,5	24,0/31,1	25,2/32,3
Exchanger	No. of rows			3	4	3	4
Connections	Hydraulic connections inlet/outlet		cal	G3/4	G3/4	G3/4	G3/4
	Drainage		mm	Φ18,5	Φ18,5	Φ18,5	Φ18,5

1. high/mid/low - fan speeds.
2. Conditions for cooling: water inlet/outlet temperature 7°/12°, air temperature 27°DB/19°WB.
3. Conditions for heating: water inlet temperature 45°/40°, air inlet temperature 20°DB/15°WB.
4. Noise level measured in a semi-anechoic chamber.

2-PIPE SYSTEM - DC VERSION

Model				NXKH2-V150-R3 NXKH3-V150-R3	NXKH2-V150-R4 NXKH3-V150-R4	NXKH2-V250-R3 NXKH3-V250-R3	NXKH2-V250-R4 NXKH3-V250-R4
Power supply			V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	255/170/150	255/210/150	400/315/190	425/300/190
		high/mid/low	CFM	150/100/88	250/124/88	235/185/112	250/176/112
Cooling	Capacity	high/mid/low	kW	1,5/1,06/0,92	1,95/1,66/1,21	2,35/1,94/1,19	2,85/2,13/1,41
	Flow of water	high/mid/low	m^3/h	0,27/0,20/0,17	0,35/0,30/0,22	0,41/0,35/0,23	0,51/0,38/0,25
	Water pressure drop	high/mid/low	kPa	13,9/8,21/6,16	27,2/20,88/12,2	13,3/9,98/4,59	26/15,06/7,41
Heating	Capacity	high/mid/low	kW	1,57/1,07/0,92	1,95/1,63/1,14	2,6/2,11/1,34	2,95/2,15/1,42
	Flow of water	high/mid/low	m^3/h	0,31/0,21/0,18	0,37/0,32/0,22	0,47/0,39/0,24	0,54/0,40/0,26
	Water pressure drop	high/mid/low	kPa	15,1/7,63/5,84	25,3/19,65/10,25	14,3/10,33/4,5	24,4/13.65/6,64
Input current		high/mid/low	W	15/9/8	20/14/9	17/12/7	20/11/8
Power input			A	0,18	0,21	0,20	0,22
Sound power level		high/mid/low	dB(A)	47/37/34	52/46/38	43/37/29	46/37/29
H2 model with casing		net dimensions (height x depth x width)	mm	495x200x790	495x200x790	495x200x1020	495x200x1020
		net/gross weight	kg	18/23,5	18,5/24	21,5/27,5	22,0/28,0
H3 model without casing		net dimensions (height x depth x width)	mm	455x200x628	455x200x637	455x200x858	455x200x867
		net/gross weight	kg	14/19,5	14,5/20	16,5/22,5	17,0/23,0
Exchanger	No. of rows			3	4	3	4
Connections	Hydraulic connections inlet/outlet		cal	G3/4	G3/4	G3/4	G3/4
	Drainage		mm	Φ18,5	Φ18,5	Φ18,5	Φ18,5

1. high/mid/low - fan speeds.
2. Conditions for cooling: water inlet/outlet temperature 7°/12°, air temperature 27°DB/19°WB.
3. Conditions for heating: water inlet temperature 45°/40°, air inlet temperature 20°DB/15°WB.
4. Noise level measured in a semi-anechoic chamber.

2-PIPE SYSTEM - DC VERSION

Model				NXKH2-V350-R3 NXKH3-V350-R3	NXKH2-V350-R4 NXKH3-V350-R4	NXKH2-V500-R3 NXKH3-V500-R3	NXKH2-V500-R4 NXKH3-V500-R4
Power supply			V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	595/470/340	595/450/310	790/580/410	800/600/420
		high/mid/low	CFM	350/276/200	350/265/182	465/341/241	471/353/247
Cooling	Capacity	high/mid/low	kW	3,50/2,89/2,22	3,90/3,20/2,43	4,30/3,48/2,71	4,85/3,92/2,93
	Flow of water	high/mid/low	m^3/h	0,61/0,510/0,40	0,70/0,57/0,45	0,77/0,57/0,45	0,86/0,73/0,70
	Water pressure drop	high/mid/low	kPa	34,1/24,63/15,39	37,4/25,91/15,37	54,2/36,22/22,78	54,3/36,81/21,77
Heating	Capacity	high/mid/low	kW	3,5/2,87/2,19	4,00/3,22/2,39	4,30/3,43/2,6	5,25/4,09/3,04
	Flow of water	high/mid/low	m^3/h	0,68/0,56/0,43	0,73/0,60/0,45	0,85/0,81/0,68	0,91/0,78/0,74
	Water pressure drop	high/mid/low	kPa	35,1/24,41/14,82	36,5/25,34/14,22	54,3/36,87/22,32	53,4/36,54/20,47
Input current		high/mid/low	W	26/17/10	27/17/11	50/25/14	52/28/15
Power input			A	0,26	0,28	0,49	0,51
Sound power level		high/mid/low	dB(A)	52/45/37	52/46/39	59/52/43	59/52/43
H2 model with casing		net dimensions (height x depth x width)	mm	495x200x1240	495x200x1240	495x200x1240	495x200x1240
		net/gross weight	kg	25,5/32,5	26,5/33,5	26,5/33,5	26,5/33,5
H3 model without casing		net dimensions (height x depth x width)	mm	455x200x1087	455x200x1087	455x200x1087	455x200x1087
		net/gross weight	kg	19,5/26,5	20,5/27,5	19,5/26,5	20,5/27,5
Exchanger	No. of rows			3	4	3	4
Connections	Hydraulic connections inlet/outlet		cal	G3/4	G3/4	G3/4	G3/4
	Drainage		mm	Φ18,5	Φ18,5	Φ18,5	Φ18,5

Model				NXKH2-V700-R3 NXKH3-V700-R3	NXKH2-V700-R4 NXKH3-V700-R4	NXKH2-V800-R3 NXKH3-V800-R3	NXKH2-V800-R4 NXKH3-V800-R4
Power supply			V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Airflow		high/mid/low	m^3/h	1190/885/505	1190/875/530	1360/1015/685	1300/980/680
		high/mid/low	CFM	700/503/297	700/515/312	800/597/403	765/576/400
Cooling	Capacity	high/mid/low	kW	5,60/4,47/3,14	6,35/5,19/3,62	7,35/6,12/4,57	8,25/6,65/4,84
	Flow of water	high/mid/low	m^3/h	1,01/0,80/0,56	1,13/0,90/0,63	1,28/1,10/0,81	1,49/1,180/0,85
	Water pressure drop	high/mid/low	kPa	50,7/33,38/17,73	32,8/21,75/11,43	44,1/33,7/19,41	71,4/46,17/25,4
Heating	Capacity	high/mid/low	kW	6,00/4,77/3,36	7,05/5,61/3,83	8,05/6,46/7,71	8,70/6,81/4,78
	Flow of water	high/mid/low	m^3/h	1,14/0,92/0,64	1,29/1,04/0,71	1,40/1,14/0,84	1,48/1,17/0,83
	Water pressure drop	high/mid/low	kPa	55,5/37,66/19,27	37,6/25,47/12,5	46,9/31,9/18,16	62,6/41,6/21,7
Input current		high/mid/low	W	96/44/17	92/46/19	113/53/22	102/49/22
Power input			A	0,85	0,79	0,95	0,87
Sound power level		high/mid/low	dB(A)	65/58/56	63/58/53	64/58/49	64/57/47
H2 model with casing		net dimensions (height x depth x width)	mm	495x200x1360	495x200x1360	591x200x1360	591x200x1360
		net/gross weight	kg	28,5/36	29,5/37	32,5/41,0	34,5/42,5
H3 model without casing		net dimensions (height x depth x width)	mm	455x200x1207	455x200x1207	550x200x1207	550x200x1207
		net/gross weight	kg	22/29,5	23/30,5	25/33,5	27/35
Exchanger	No. of rows			3	4	3	4
Connections	Hydraulic connections inlet/outlet		cal	G3/4	G3/4	G3/4	G3/4
	Drainage		mm	Φ18,5	Φ18,5	Φ18,5	Φ18,5

1. high/mid/low - fan speeds.
2. Conditions for cooling: water inlet/outlet temperature 7°/12°, air temperature 27°DB/19°WB.
3. Conditions for heating: water inlet temperature 45°/40°, air inlet temperature 20°DB/15°WB.
4. Noise level measured in a semi-anechoic chamber.

4-PIPE SYSTEM - DC VERSION

Model				NXKH2-V150F-R4 NXKH3-V150F-R4	NXKH2-V250F-R4 NXKH3-V250F-R4	NXKH2-V350F-R4 NXKH3-V350F-R4
Power supply			V/ph/Hz	220-240/1/150	220-240/1/150	220-240/1/150
Airflow		high/mid/low	m^3/h	255/206/134	425/280/158	595/461/324
		high/mid/low	CFM	150/121/79	250/165/93	350/271/191
Cooling	Capacity	high/mid/low	kW	1,70/1,44/0,95	2,70/1,94/1,10	3,80/3,18/2,32
	Flow of water	high/mid/low	m^3/h	0,29/0,25/0,16	0,46/0,33/0,19	0,65/0,55/0,40
	Water pressure drop	high/mid/low	kPa	18,16/13,74/7,5	16,97/9,73/3,51	39,17/28,35/16,91
Heating	Capacity	high/mid/low	kW	1,40/1,23/0,95	2,30/1,78/1,22	2,88/2,49/2,00
	Flow of water	high/mid/low	m^3/h	0,12/0,11/0,08	0,20/0,15/0,10	0,25/0,21/0,17
	Water pressure drop	high/mid/low	kPa	10,74/8,50/5,49	28,16/18,45/10,08	55,37/43,00/29,20
Input current		high/mid/low	W	20/14/9	20/11/8	29/17/11
Power input			A	0,21	0,22	0,28
Sound power level		high/mid/low	dB(A)	39/33/25	32/23/20	40/35/30
H2 model with casing		net dimensions (height x depth x width)	mm	495x200x790	495x200x1020	495x200x1240
		net/gross weight	kg	19/24,5	22,5/28,5	27,0/34
H3 model without casing		net dimensions (height x depth x width)	mm	455x200x637	455x200x867	455x200x1087
		net/gross weight	kg	12,6/16,9	15,3/20,8	18,7/25,7
Exchanger	No. of rows			4	4	4
Connections	Hydraulic connections inlet/outlet		cal	G3/4 / G1/2	G3/4 / G1/2	G3/4 / G1/2
	Drainage		mm	Φ18,5	Φ18,5	Φ18,5

Model				NXKH2-V500F-R4 NXKH3-V500F-R4	NXKH2-V700F-R4 NXKH3-V700F-R4	NXKH2-V800F-R4 NXKH3-V800F-R4
Power supply			V/ph/Hz	220-240/1/150	220-240/1/150	220-240/1/150
Airflow		high/mid/low	m^3/h	800/595/417	1190/887/564	1300/969/661
		high/mid/low	CFM	471/350/245	700/522/332	765/570/389
Cooling	Capacity	high/mid/low	kW	4,60/3,75/2,83	6,05/5,00/3,43	7,65/6,19/4,54
	Flow of water	high/mid/low	m^3/h	0,79/0,64/0,49	1,04/0,86/0,59	1,31/1,06/0,78
	Water pressure drop	high/mid/low	kPa	56,18/39,04/23,84	53,66/36,96/19,07	48,07/32,56/18,32
Heating	Capacity	high/mid/low	kW	3,35/2,88/2,36	4,6/3,95/3,02	7,50/6,44/5,22
	Flow of water	high/mid/low	m^3/h	0,29/0,25/0,20	0,39/0,34/0,26	0,64/0,55/0,45
	Water pressure drop	high/mid/low	kPa	69,57/54,65/38,21	132,32/104,19/63,73	71,63/56,17/37,44
Input current		high/mid/low	W	52/28/15	92/46/19	102/49/22
Power input			A	0,51	0,79	0,87
Sound power level		high/mid/low	dB(A)	45/39/30	50/43/35	51/43/33
H2 model with casing		net dimensions (height x depth x width)	mm	495x200x1240	495x200x1360	591x200x1360
		net/gross weight	kg	27,0/34	30,0/37,5	35,0/43,0
H3 model without casing		net dimensions (height x depth x width)	mm	455x200x1087	455x200x1207	550x200x1207
		net/gross weight	kg	18,7/25,4	21,3/28,1	24,8/31,9
Exchanger	No. of rows			4	4	4
Connections	Hydraulic connections inlet/outlet		cal	G3/4 / G1/2	G3/4 / G1/2	G3/4 / G1/2
	Drainage		mm	Φ18,5	Φ18,5	Φ18,5

1. high/mid/low - fan speeds.
2. Conditions for cooling: water inlet/outlet temperature 7°/12°, air temperature 27°DB/19°WB.
3. Conditions for heating: water inlet temperature 45°/40°, air inlet temperature 20°DB/15°WB.
4. Noise level measured in a semi-anechoic chamber.

NOXA AQUA

MODULAR CHILLERS

NEW

GENERAL INFORMATION

Modular chillers uses refrigerant R410A or R32. Units provide operation in cooling mode at outdoor temperatures up to +43°C and in heating mode up to -20°C, ensuring the maximum outlet water temperature up to +55°C. Chillers can be installed as a single unit or in modules consisting of many units. The maximum capacity of a modular system is 1440 kW. Units are equipped with a built-in flow switch and wired controller that ensure more comfortable installation. Chillers are also available in version with built-in hydraulic module.

UNIQUE FEATURES

- High performance
- Wide application range
- Advanced technology
- Increased comfort
- Simple control
- High reliability
- Easy installation

PRODUCT OFFER

- R410A (with/without hydronic module)
- R32 (with/without hydronic module)

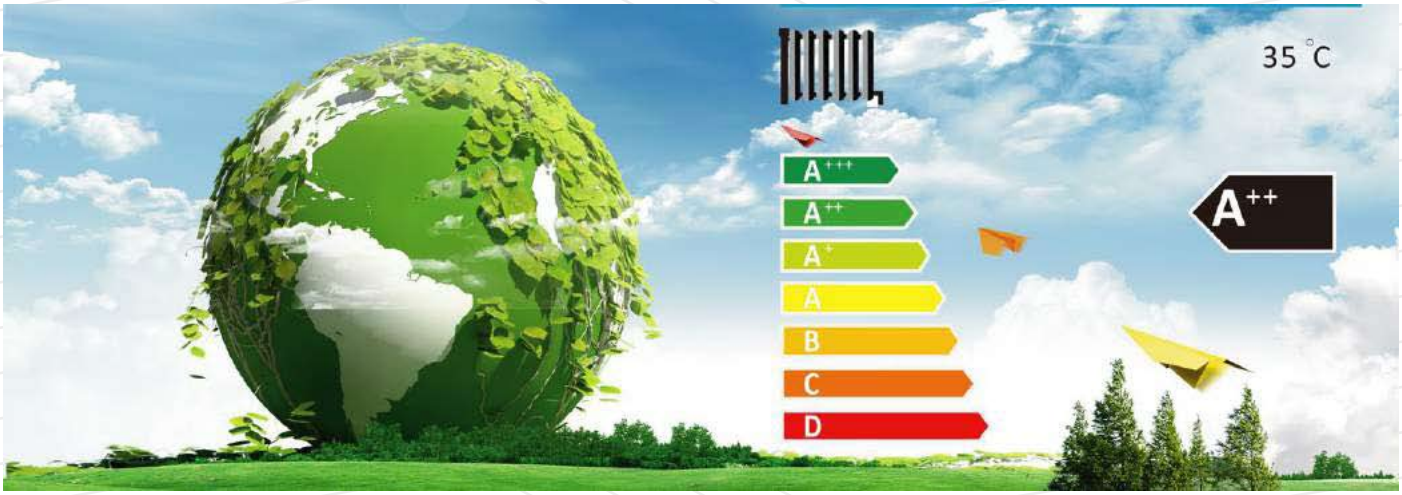
Capacity	30[kW]	60[kW]	90[kW]
Exterior Exterior			
380-415V/3Ph/50Hz	●	●	●

High capacity versions of 130 and 260 kW working with R32 refrigerant will soon become available.

HIGH PERFORMANCE

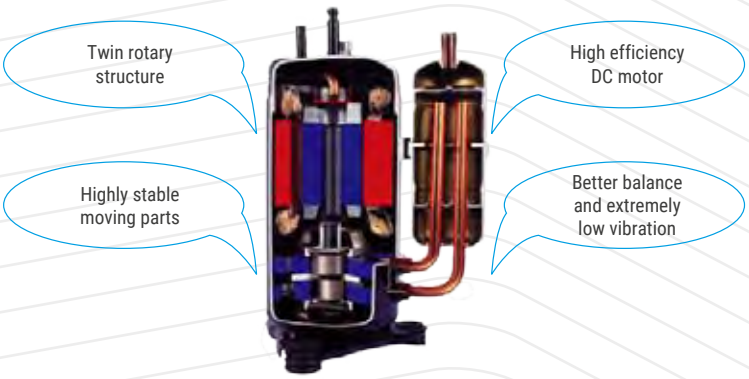
ENERGY EFFICIENCY CLASS A++

Modular chillers have efficiency class A++ or A+ and are compatible with Directive 2009/125/EU of the European Parliament and of the Council.

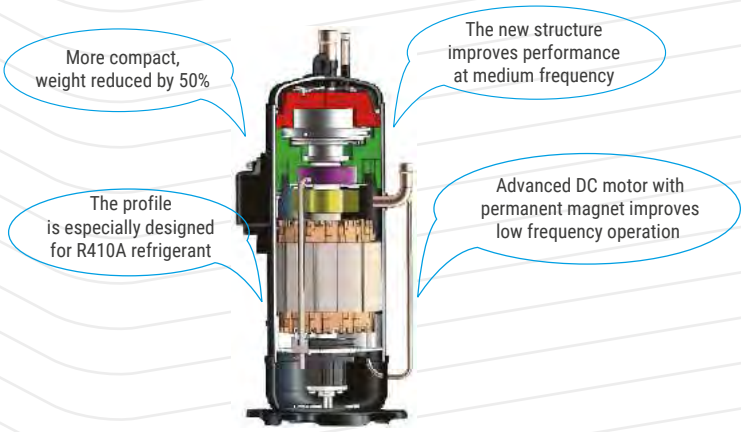


COMPRESSOR

At the heart of the chiller lies a world-leading DC inverter compressor. The compressor's innovative design and numerous high performance features reduce power consumption by 25%.



Compressor for
MC-SU30M-RN8L and MC-SU60M-RN8L



Compressor for MC-SU90M-RN1L

REFRIGERANT

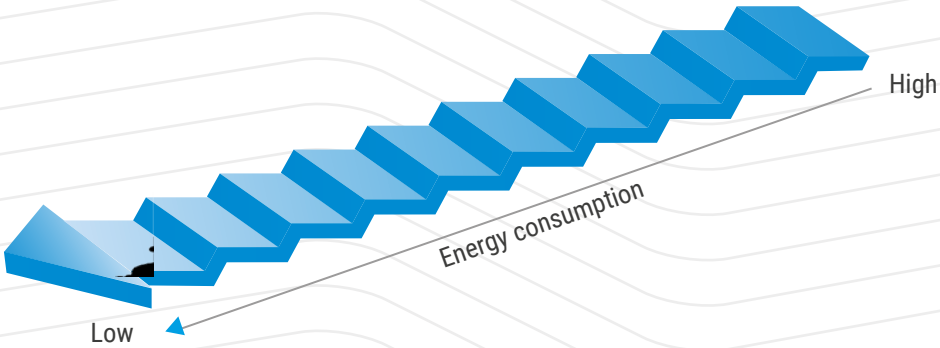
MC-SU30M-RN8L and MC-SU60M-RN8L chillers use R32 refrigerant with low global warming potential (GWP=675).

- Low GWP and CO_2 emission
- Higher performance in extreme conditions
- Less volume of refrigerant present in the system
- Lower running costs connected with higher COP coefficient

R32

DC FAN MOTOR

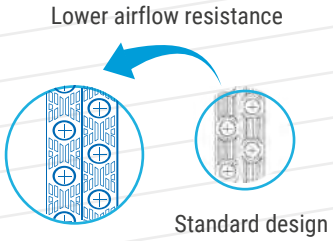
Fan speed is controlled according to the system pressure and system load, reducing power consumption by 30%. Each unit is equipped with motors with 32-step rotation adjustment.



HIGH PERFORMANCE HEAT EXCHANGER

Modular chiller are equipped with a newly redesigned condenser. The production process of the new coil is less complicated, thereby enhancing the productivity and reliability of the product. Newly developed fins offer increased heat exchange surface, what improves the heat exchange conditions and increases unit's energy efficiency.

New structure of the exchangers and fins with hydrophilic coating ensure highly efficient heat exchange and also increase durability and protect against corrosion from air, water and other corrosives.

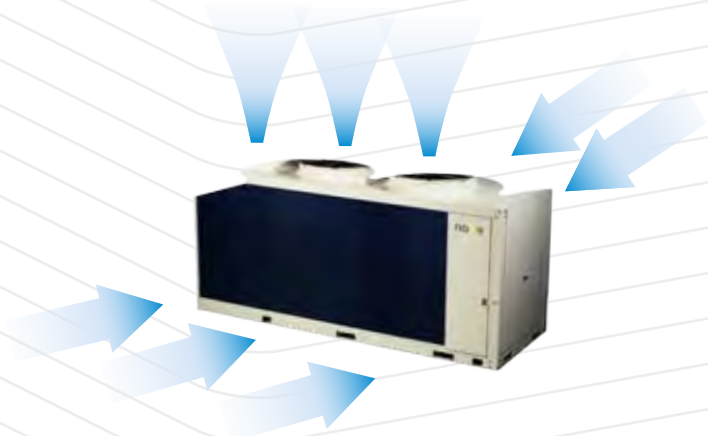


High performance, inner-grooved tube increases the rate of heat transfer

fins with hydrophilic coating + inner-grooved tubes

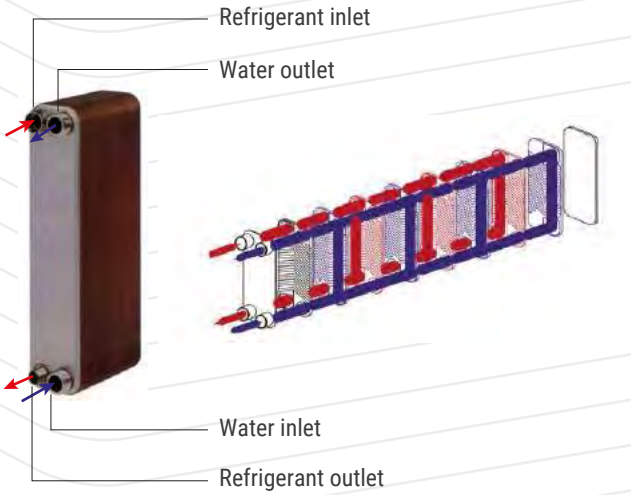
HEAVY DUTY STRUCTURE OF THE HEAT EXCHANGER

High performance fan motor in connection with well designed outdoor exchanger, make the heat exchange of the whole system more accurate.



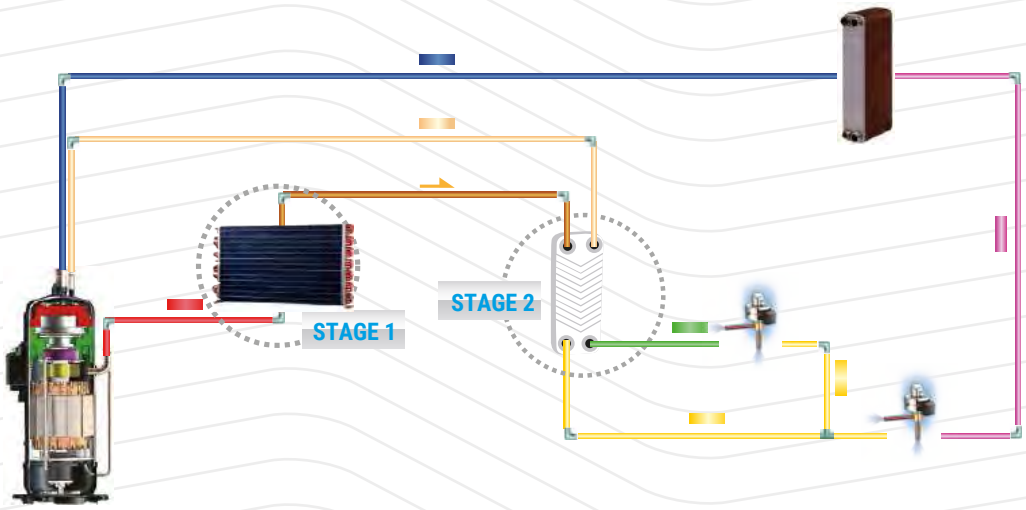
HIGH EFFICIENCY PLATE HEAT EXCHANGER

Plate heat exchanger uses its construction in order to effectively transfer heat between the refrigerant and water. Both fluids exploit the total surface of the exchanger's plate to maximize the performance. Safe operation of the system is ensured by a number of protections: voltage, current, antifreeze and flow switch.



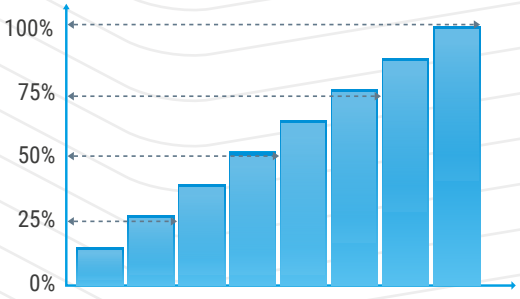
HEAT EXCHANGER SUBCOOLING SYSTEM

Use of an additional, secondary intercooler boosts up refrigerant subcooling and improves energy efficiency of the 90 kW model by 10%.



PRECISE FLOW CONTROL

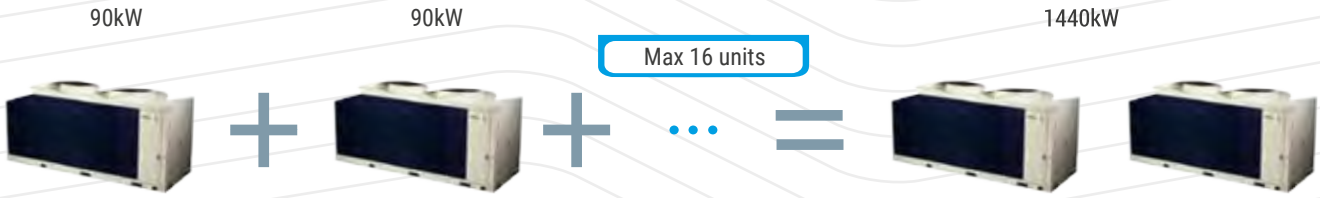
Patented liquid distribution components to maximize performance and minimize defrost impact.
500 steps EXV plus capillary for stable and accurate gas flow control. Fast respond resulting in higher efficiency and improved reliability.



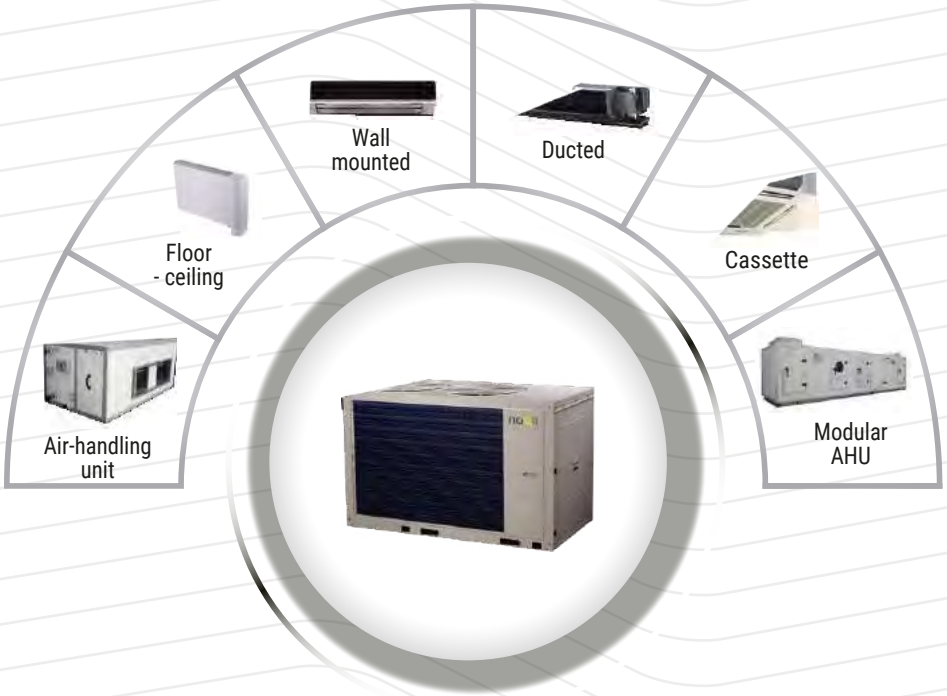
WIDE APPLICATION RANGE

FLEXIBILITY

Modular design allows up to 16 units to be connected together, giving a system cooling/heating capacity range of 30kW to 1440kW.

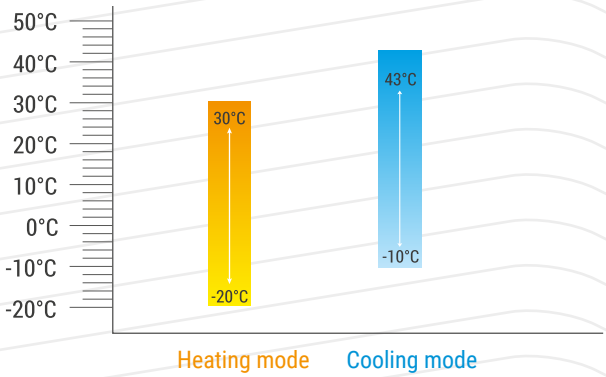


Compatible with fan-coils and air-handling units.



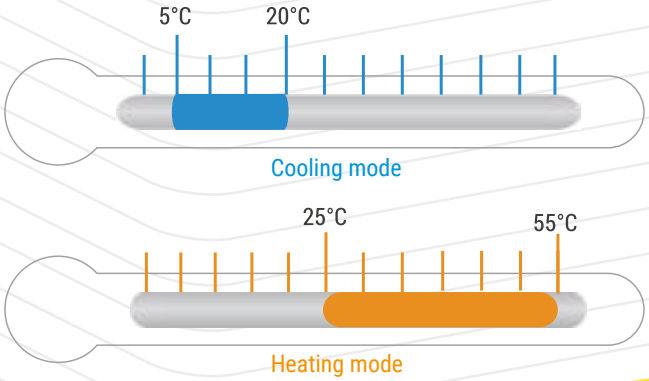
AMBIENT TEMPERATURE

Stable operation even under extreme conditions: -20°C to 43°C.



OUTLET WATER TEMPERATURE

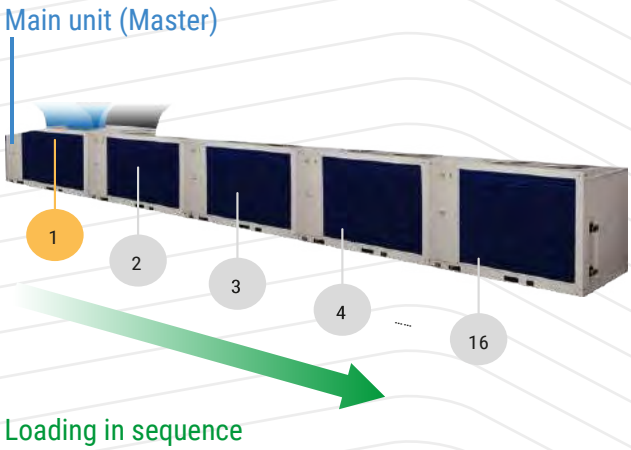
Wide outlet water temperature range with lowest outlet temperature in cooling mode of 5°C.

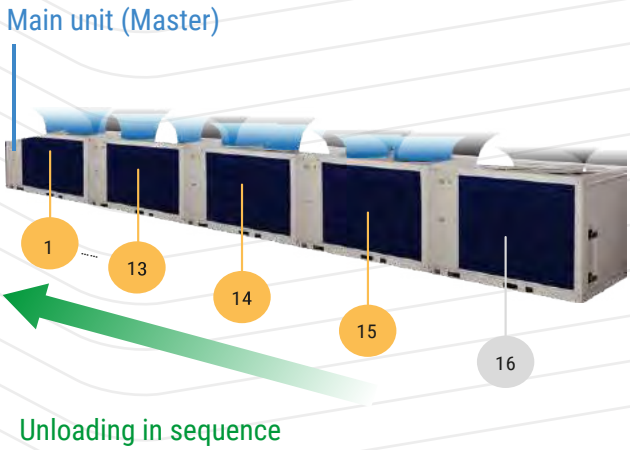


ADVANCED TECHNOLOGY

ADAPTATION TO THE REQUIRED CAPACITY

Depending on the actual energy demand, system adapts the number of simultaneously operating modules .





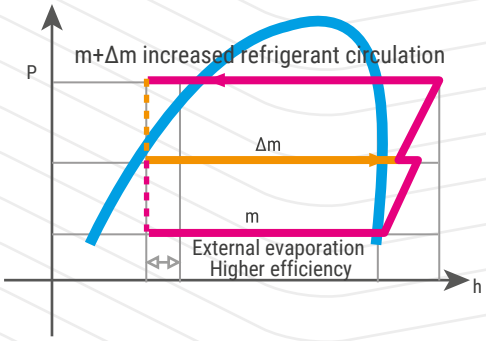
BACK-UP OPERATION

In a multi-unit system, if one module fails, the other modules provide backup so that the system can continue operating.

ENHANCED VAPOR INJECTION (EVI) COMPRESSOR

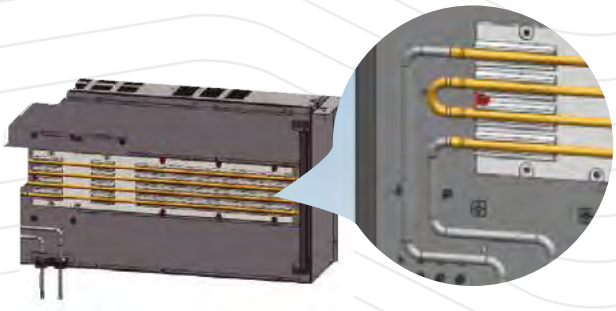
MC-SU90M-RN1L model, thanks to the vapor injection DC inverter compressor, the system can run heating mode stably down to -20°C and the heating capacity can be improved greatly.

EVI compressor



COOLING PCB

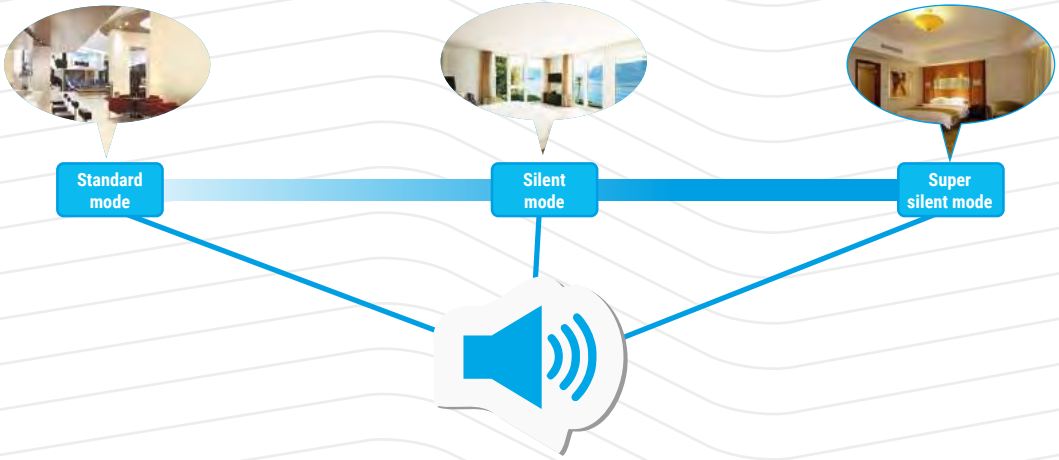
The MC-SU90MRN1L model uses refrigerant cooling technology to cool the electric control box. It decreases the average temperature of electrical control components by about 8°C, guaranteeing the stable and safe running of the control system.



ENHANCED COMFORT

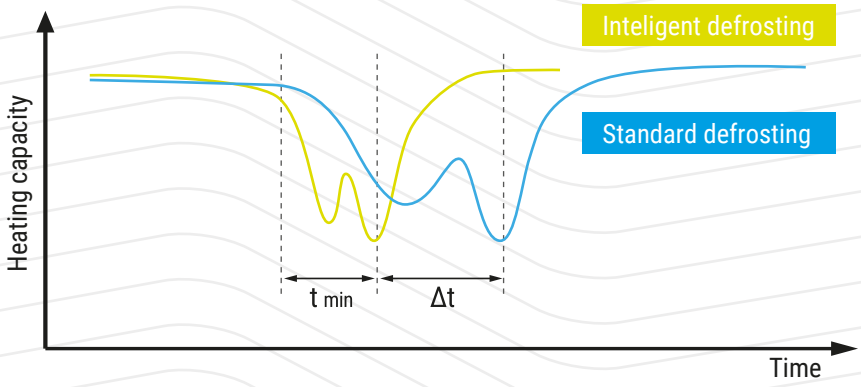
MULTIPLE SILENT MODES

Different quiet operation modes provide several levels of noise reduction. Thus, it is possible to adapt the operating unit to time of day and the sound conditions in the surrounding.



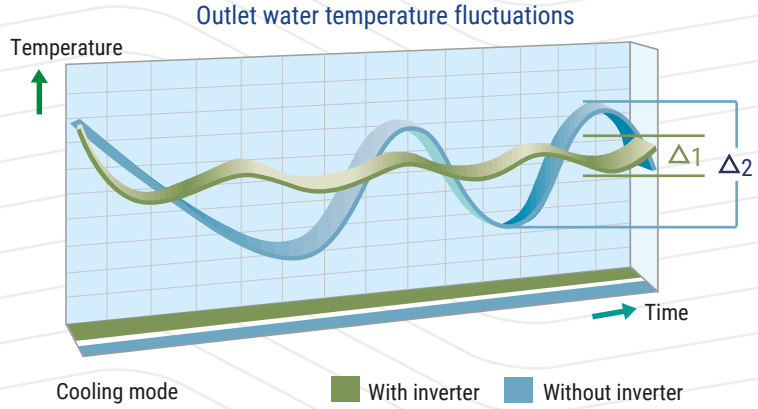
INTELIGENT DEFROSTING TECHNOLOGY

The intelligent defrosting program calculates the time required for defrosting according to the actual system status, eliminating heat losses from unnecessary defrosting. A specialized valve reduces time required for defrosting to as little as 4 minutes.



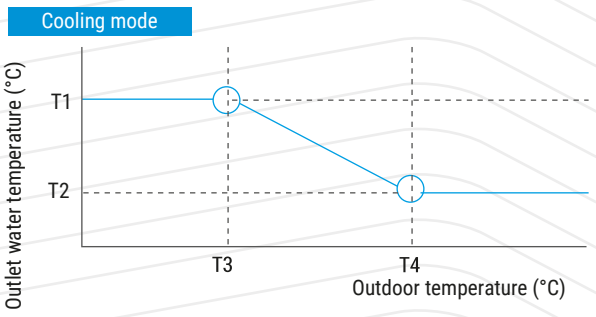
RAPID HEATING UP AND COOLING DOWN

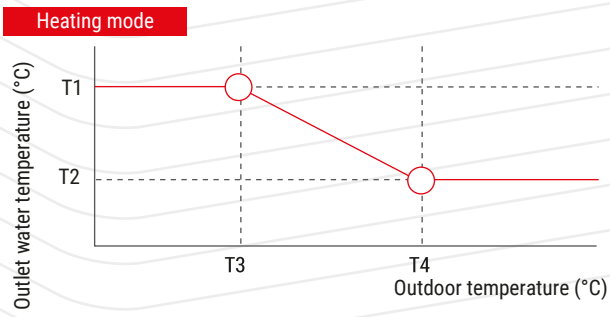
The DC inverter compressor reaches full capacity rapidly, providing quicker cooling or heating with lower levels of temperature fluctuation during the cooling/heating operation. Lower temperature fluctuations improve conditions in the room.



TEMPERATURE COMPENSATION

In order to ensure the highest comfort of unit operation, it is possible to adapt the system water temperature, depending on ambient temperature. Such correlation allows to achieve the highest savings.





EASY CONTROL

WIRED **REMOTE CONTROLLER**

Touch key wired controller as a standard accessory for chiller operation control.

Main functions

- Touch buttons operation
- LCD display parameters setting
- Real time clock function
- Memory function
- Modbus
- Address setting
- Parallel operation function
- Alarm function with tone signal
- Weekly timer
- Two setpoint function

Model: KJRM-120H/BMW KO3-E

Max. no. of connected units: 16

THREE USER **LEVELS**

Three different user levels ensure users can easily access control functions and allow engineers convenient access to operating parameters.

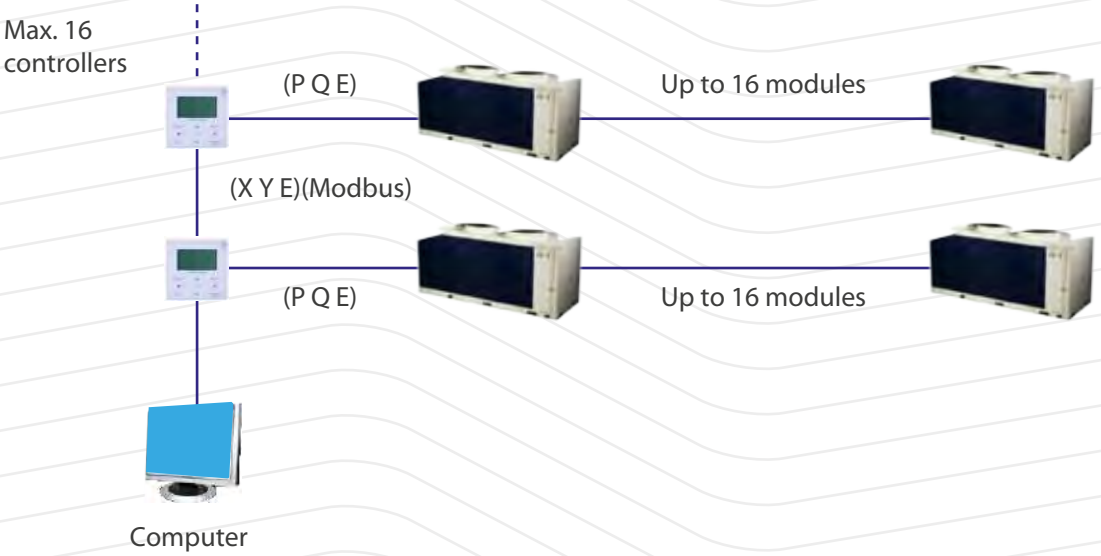
ADDITIONAL CONTROL

ON/OFF, Cool/Heat and Alarm ports on chiller PCBs allow switches to be connected to enable additional remote control functionality.

Note: In case the external control signal is used, the following functions of the included wired remote controlled are disabled: selection of the operation mode and on/off control.

MODBUS CONTROL FUNCTION

ModBus control system is an open communication protocol that is widely used in advanced building automation systems (BMS). Application of ModBus enables connection of up to 16 wired controllers, with each controller controlling up to 16 units.

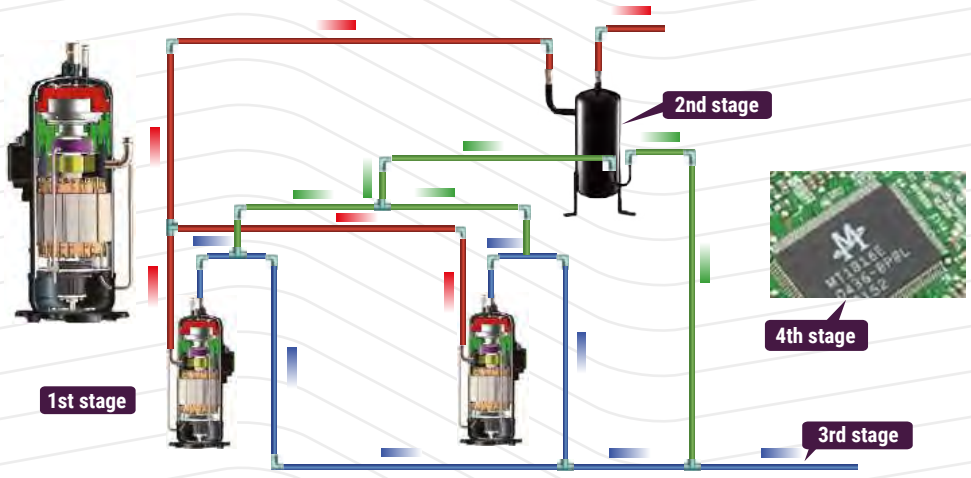


HIGH RELIABILITY

PRECISE OIL CONTROL TECHNOLOGY

Four stages of oil control technology ensure all outdoor compressor oil is always kept at a safe level, eliminating any compressor oil shortage problems.

- **1st stage:** compressor internal oil separation
- **2nd stage:** high-efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion.
- **3rd stage:** Oil balance pipes between compressors ensure even oil distribution to keep compressors unning normally.
- **4th stage:** Auto oil return program monitors the running time and system status to ensure reliable oil return.



ANTI-CORROSION PROTECTION

Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard and can also be customized with heavy anti-corrosion treatment on main components for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life. The integrity of the anti-corrosion treatment is ensured by subjecting major components and parts to salt mist testing, moisture and heating testing and light aging testing.

Fan motor

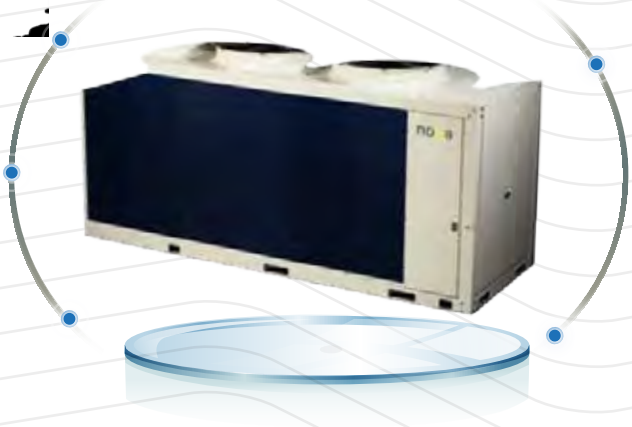
Standard protection:
72h of neutral salt mist

Additional protection:
240h of neutral salt mist

Painted steel

Standard protection:
500h of neutral salt mist
1000h of moisture and heating
500h of light aging

Additional protection:
1000h of neutral salt mist
2000h of moisture and heating
720h of light aging



Hydrophilic coating of the heat exchanger

Standard protection:
72h of neutral salt mist

Additional protection:
1000h of neutral salt mist
140h of hydrochloric acid mist

Heat exchanger's copper tubes

Standard protection:
24h of neutral salt mist

Additional protection:
120h of neutral salt mist

Screws/nut/washer

Standard protection:
300h of neutral salt mist

Additional protection:
720h of neutral salt mist

Electric control box casing

Standard protection:
96h of neutral salt mist

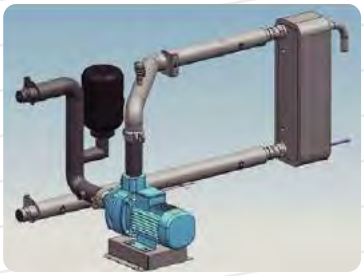
Additional protection:
240h of neutral salt mist

SNOW CLEARANCE MODE (SERIES WITH R32 REFRIGERANT)

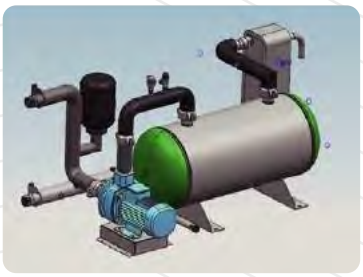
When the weather is snowy, the unit turns on the snow clearance mode. This means that the fans are enabled from time to time in order to prevent the snow from collecting on top of the unit and ensure operation continuity.

EASY INSTALLATION AND MAINTENANCE

BUILT-IN COMPONENTS



Hydraulic module (additional option)



Hydraulic module with buffer tank (additional option)*

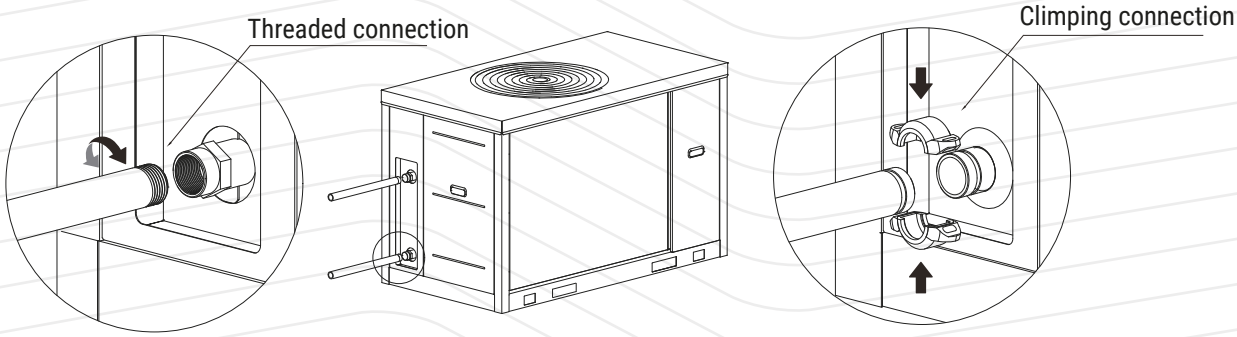
Flow Switch

Wired remote controller KJRM-120H/BMWKO3-E

*Note:
Available in 30kW model with buffer tank with a volume of 145l
Available in 60kW model with buffer tank with a volume of 180l

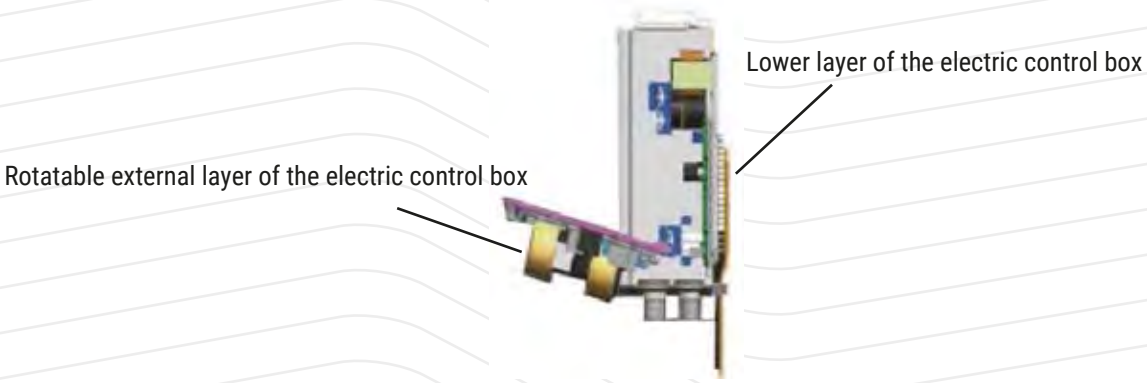
HYDRAULIC CONNECTION

Proper chillers operation require connection of hydraulic installation. 30kW (R32) chillers have threaded connections, while 60kW (R32) and 90kW (R410A) chillers use climping connections (clamps).



ROTATABLE PCB BOARD

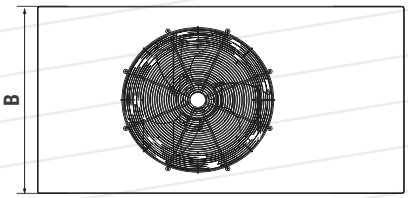
The best possible access to the second row of automation equipment is ensured by the ability of lifting the outdoor PCB board in the electric control box. In case of units operating with R32 refrigerant the control box uses anti explosive protections.



UNIT **DIMENSIONS**

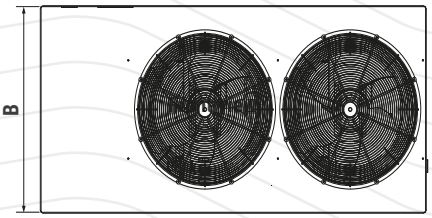
MC-SU30M-RN8L/MC-SU60M-RN8L

Top view:



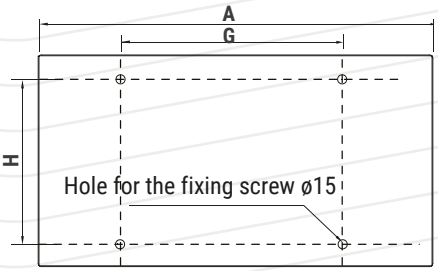
MC-SU30M-RN8L

Top view:

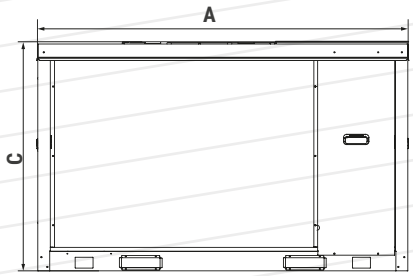


MC-SU60M-RN8L

Bottom view:

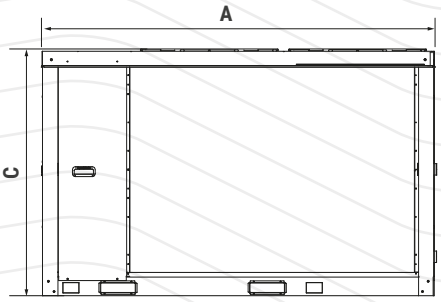


Left side view:



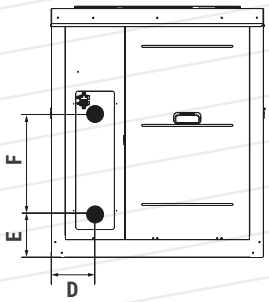
MC-SU30M-RN8L

Left side view:



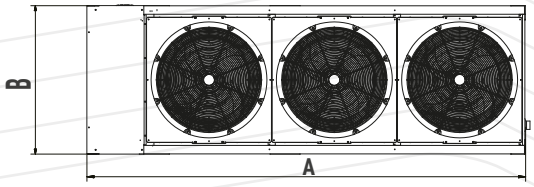
MC-SU60M-RN8L

Front view:

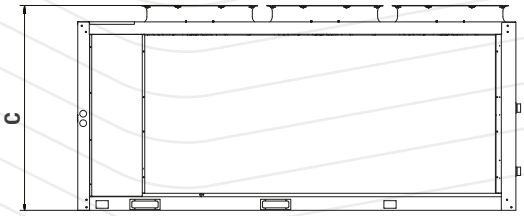


MC-SU90M-RN1 L

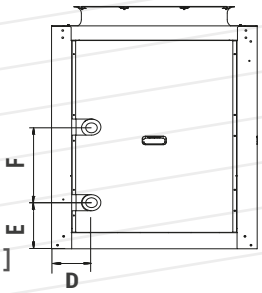
Top view:



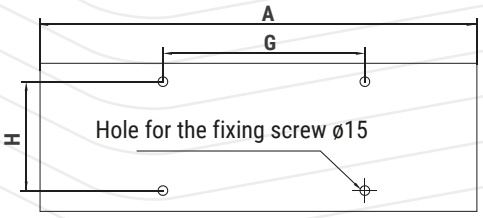
Left side view:



Front view:



Bottom view:



DIMENSIONS [mm]

Model	A	B	C	D	E	F	G	H
MC-SU30M-RN8L	1870	1000	1175	204	200	470	800	926
MC-SU60M-RN8L	2220	1055	1325	234	210	470	1105	958
MC-SU90M-RN1L	3220	1095	1513	286	210	470	2116	1008

TECHNICAL DATA

Model			MC-SU30-RN8L	MC-SU30M-RN8L	MC-SU60-RN8L	MC-SU60M-RN8L
Power supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Cooling (1)	Capacity	kW	25,7	27,5	55,0	55,0
	Rated power input	kW	10,3	11,0	21,5	23,0
	EER		2,67	2,5	2,56	2,39
	SEER		4,62	4,25	4,0	4,03
Heating (2)	Capacity	kW	32,0	32,0	62,0	62,0
	Rated power input	kW	10,0	10,7	20,0	21,5
	COP		3,2	2,99	3,1	2,88
	SCOP		4,24	3,99	3,86	3,72
Seasonal space heating energy efficiency class			A++	A++	A++	A+
Max. running current		A	20	21,5	40,5	43,5
Compressor		Type	rotary	rotary	rotary	rotary
		Q-ty	1	1	2	2
Air side heat exchanger		Type	finned tube	finned tube	finned tube	finned tube
Fan motor	Type		DC motor	DC motor	DC motor	DC motor
	Quantity		1	1	2	2
	Airflow rate	m^3/h	12500	12500	24000	24000
Water side heat exchanger	Type		plate	plate	plate	plate
	Volume	l	2,44	2,44	5,17	5,17
	Water flow	m^3/h	5,0	5,0	9,8	9,8
	Water pressure drop	kPa	55,0	55,0	61,0	61,0
Pump head		m	-	15	-	15
Refrigerant	Type		R32	R32	R32	R32
	Charge (3)	kg	7,9	7,9	14,0	14,0
Expansion element		Type	EXV	EXV	EXV+capillary tube	EXV+capillary tube
Sound power level		dB(A)	78,0	78,0	86,0	86,0
Sound pressure level (4)		dB(A)	64,8	65,1	71,3	71,4
Net dimensions (width x height x depth)		mm	1870x1175x1000	1870x1175x1000	2220x1325x1055	2220x1325x1055
Packed dimensions (width x height x depth)		mm	1910x1225x1035	1910x1225x1035	2250x1370x1090	2250x1370x1090
Net/Gross weight		kg	300/310	315/325	480/490	515/525
Water pipe connection		mm	Dn40	Dn40	Dn40	Dn40
Wired controller			KJRM-120H/BMWKO3-E	KJRM-120H/BMWKO3-E	KJRM-120H/BMWKO3-E	KJRM-120H/BMWKO3-E
Operating temperature range	Cooling	°C	from -10 to 43	from -10 to 43	from -10 to 43	from -10 to 43
	Heating	°C	from -14 to 30	from -14 to 30	from -14 to 30	from -14 to 30
Water outlet temperature range	Cooling (5)	°C	from 5 to 20	from 5 to 20	from 5 to 20	from 5 to 20
	Heating	°C	from 25 to 54	from 25 to 54	from 25 to 54	from 25 to 54

(1) Cooling: Chilled water inlet/outlet temperature 12/7°C, outdoor ambient temperature 35°C DB.
(2) Heating: Hot water inlet/outlet temperature 40/45°C, outdoor ambient temperature 7°C DB/6°C WB.
(3) For model MC-SU60-RN8L and MC-SU60M-RN8L the total refrigerant amount is 14 kg, including 11,5 kg factory charged and 2,5 kg left for charging.
(4) Sound pressure level is measured at a distance of 1 min front of the unit and 1,1 m above the floor in a semi-anechoic chamber.
(5) Capacity and efficiency data calculated in accordance with EN14511, EN14825.

TECHNICAL DATA

Model			MC-SU90-RN1L	MC-SU90M-RN1L
Power supply		V/Ph/Hz	380-415/3/50	380-415/3/50
Cooling (1)	Capacity	kW	82,0	82,0
	Rated power input	kW	36,8	38,0
	EER		2,23	2,16
	SEER		4,08	3,82
Heating (2)	Capacity	kW	90,0	90,0
	Rated power input	kW	32,8	34
	COP		2,74	2,65
	SCOP		3,99	3,75
Seasonal space heating energy efficiency class			A++	-
Max. running current		A	60	68,4
Compressor		Type	scroll	scroll
		Q-ty	2	2
Air side heat exchanger		Type	finned tube	finned tube
Fan motor	Type		DC motor	DC motor
	Quantity		3	3
	Airflow rate	m^3/h	38000	38000
Water side heat exchanger	Type		plate	plate
	Volume	l	7,05	7,05
	Water flow	m^3/h	15,0	15,0
	Water pressure drop	kPa	75,0	75,0
Pump head		m	-	15,0
Refrigerant	Type		R410A	R410A
	Charge	kg	27,0	27,0
Expansion element		Type	EXV	EXV
Sound power level		dB(A)	89,0	89,0
Sound pressure level (3)		dB(A)	80,1	80,1
Net dimensions (width x height x depth)		mm	3220x1513x1095	3220x1513x1095
Packed dimensions (width x height x depth)		mm	3275x1540x1130	3275x1540x1130
Net/Gross weight		kg	710/739	710/739
Water pipe connection		mm	Dn50	Dn50
Wired controller			KJRM-120H/BMWKO3-E	KJRM-120H/BMWKO3-E
Operating temperature range	Cooling	°C	from -10 to 43	from -10 to 43
	Heating	°C	from -20 to 30	from -20 to 30
Water outlet temperature range	Cooling (4)	°C	from 5 to 20	from 5 to 20
	Heating	°C	from 25 to 55	from 25 to 55

(1) Cooling: Chilled water inlet/outlet temperature 12/7°C, outdoor ambient temperature 35°C DB.
(2) Heating: Hot water inlet/outlet temperature 40/45°C, outdoor ambient temperature 7°C DB/6°C WB.
(3) Sound pressure level is measured at a distance of 1 min front of the unit and 1,1 m above the floor in a semi-anechoic chamber.
(4) Capacity and efficiency data calculated in accordance with EN14511, EN14825.

N/001/2020

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www.noxaeurope.com

AIRCOND s.r.o.
Čermeľská cesta 3
040 01 Košice
www.mdvslovakia.sk