



SPLIT ALL IN ONE

NEW!

The system is composed of an outdoor unit and a hydraulic module with the integrated domestic hot water tank of 190l and 240l volume. The refrigerant piping connects the outdoor unit with the hydraulic module.

Offered capacity range: 4,0 - 12,0kW



*at the time of standard warranty extension

SPLIT

The system is composed of two modules, one outdoor unit and one hydraulic module installed indoors. Both modules are connected by refrigerant piping.

Offered capacity range: 4,0 - 16,0kW



*at the time of standard warranty extension

MONO

The systems includes a single module intended for outdoor installation. The outdoor unit comprises the refrigerant and hydraulic circuit.

Offered capacity range: 4,0 - 30,0kW



*at the time of standard warranty extension

SPLIT ALL IN ONE

NEW!

Set				ALL-ONE-4A1/190	ALL-ONE-6A1/190	
Outdoor unit				MHA-V4W/D2N8-B	MHA-V6W/D2N8-B	
Indoor unit				HBT-A100/190CD30GN8-B		
Indoor unit	Load profile according to EN 16147			L	L	
	DHW production energy efficiency class ⁵	temperate climate	class	A+	A+	
			COP	3,10	3,10	
		warm climate	class	A+	A+	
		COP	3,80	3,80		
		cold climate	class	A		
			COP	2,50		
Heating	A7W35 ²	Capacity	kW	4,25	6,20	
		Input power	kW	0,82	1,24	
		COP		5,20	5,00	
	A7W45 ³	Capacity	kW	4,35	6,35	
		Input power	kW	1,14	1,69	
		COP		3,80	3,75	
Cooling	A35W18 ⁴	Capacity	kW	4,50	6,55	
		Input power	kW	0,81	1,34	
		EER		5,55	4,90	
	A35W7 ⁵	Capacity	kW	4,70	7,00	
		Input power	kW	1,36	2,33	
		EER		3,45	3,00	
Space heating	Seasonal energy efficiency class for space heating ⁶		Water outlet temperature 35°C	class	A+++	
			Water outlet temperature 55°C	class	A++	
Outdoor unit	Power supply			V/Ph/Hz	220÷240/1/50	220÷240/1/50
	Refrigerant	Type (GWP)		class	R32 (675)	R32 (675)
		Charge		kg	1,50	1,50
		Piping length without charging		m	< 15	< 15
		Additional charge		g/m	20	20
	Refrigerant piping	Liquid pipe diameter		mm	6,35	6,35
		Gas pipe diameter		mm	15,9	15,9
		Max. piping length		m	30	30
		Max. height difference		m	20	20
	Compressor type				Twin rotary DC	Twin rotary DC
	Fan type				DC	DC
	Outdoor unit sound power level ⁷			dB	56	58
	Temperature range	Heating		°C	-25÷35	-25÷35
		Cooling		°C	-5÷43	-5÷43
		Domestic hot water (DHW)		°C	-25÷43	-25÷43
	Dimensions	Unit (width x height x depth)		mm	1008×712×426	1008×712×426
Packaging (width x height x depth)		mm	1065×810×485	1065×810×485		
Weight	Net		kg	60	60	
	Gross		kg	65,5	65,5	
Indoor unit/ hydraulic module	Power supply			V/Ph/Hz	220÷240/1/50	220÷240/1/50
	Domestic hot water tank	Type			Stainless steel	Stainless steel
		Material			SUS 316L	SUS 316L
		Volume		L	190	190
		Max. water temperature		°C	70	70
	Insulation (material) / thickness			mm	Polyurethane (cyclopentane) / 45	Polyurethane (cyclopentane) / 45
	Heat exchanger				plate	plate
	Auxiliary heater	Electric power		kW	3	3
		Capacity steps			1	1
	Water pump	Type			DC Inverter	DC Inverter
		Head		m	9	9
	Expansion vessel			L	8	8
	Water connections	Heating circuit (supply/return)		cal	External thread 1"	External thread 1"
		DHW circuit (cold water, hot water, circulation)		cal	External thread 3/4"	External thread 3/4"
	Indoor unit sound power level ⁷			dB	38	38
	Temperature range	Room		°C	5÷35	5÷35
Heating		°C	25÷65	25÷65		
Cooling		°C	5÷25	5÷25		
Domestic hot water (DHW)		°C	30÷60	30÷60		
Dimensions	Unit (width x height x depth)		mm	600x1683x600	600x1683x600	
	Packaging (width x height x depth)		mm	653x1900x653	653x1900x653	
Weight	Net		kg	138,6	138,6	
	Gross		kg	153,8	153,8	

1. Technical specification complies with the requirements of standards: EN16147/2017;EU No: 812/2013
2. DB/WB 7/6°C, LWT 35°C (ΔT = 5°C)
3. DB/WB 7/6°C, LWT 45°C (ΔT = 5°C)
4. DB 35°C, LWT 18°C (ΔT = 5°C)
5. DB 35°C, LWT 7°C (ΔT = 5°C)
6. Technical specification complies with the requirements of standards: EN14511/2018; EN14825/2018; EU No: 811/2013
7. Sound power level in heating mode is given in accordance with EN 12102 standard under conditions consistent with EN 14825.

SPLIT ALL IN ONE

Set				ALL-ONE-8A1/190	ALL-ONE-10A1/190	
Outdoor unit				MHA-V8W/D2N8-B	MHA-V10W/D2N8-B	
Indoor unit				HBT-A100/190CDS90GN8-B		
Indoor unit	Load profile according to EN 16147			L	L	
	DHW production energy efficiency class ¹	temperate climate	class	A+	A+	
			COP	3,02	3,02	
		warm climate	class	A+	A+	
			COP	3,66	3,66	
		cold climate	class	A	A	
COP			2,61	2,61		
Heating	A7W35 ²	Capacity	kW	8,30	10,00	
		Input power	kW	1,60	2,00	
		COP		5,20	5,00	
	A7W45 ³	Capacity	kW	8,20	10,00	
		Input power	kW	2,08	2,63	
		COP		3,95	3,80	
Cooling	A35W18 ⁴	Capacity	kW	8,40	10,00	
		Input power	kW	1,66	2,08	
		EER		5,05	4,80	
	A35W7 ⁵	Capacity	kW	7,40	8,20	
		Input power	kW	2,19	2,48	
		EER		3,38	3,30	
Space heating	Seasonal energy efficiency class for space heating ⁶		Water outlet temperature 35°C	class	A+++	
			Water outlet temperature 55°C	class	A++	
Outdoor unit	Power supply			V/Ph/Hz	220±240/1/50	220±240/1/50
	Refrigerant	Type (GWP)		class	R32 (675)	R32 (675)
		Charge		kg	1,65	1,65
		Piping length without charging		m	< 15	< 15
		Additional charge		g/m	38	38
	Refrigerant piping	Liquid pipe diameter		mm	9,52	9,52
		Gas pipe diameter		mm	15,9	15,9
		Max. piping length		m	30	30
		Max. height difference		m	20	20
	Compressor type				Twin rotary DC	Twin rotary DC
	Fan type				DC	DC
	Outdoor unit sound power level ⁷			dB	59	60
	Temperature range	Heating		°C	-25±35	-25±35
		Cooling		°C	-5±43	-5±43
	Dimensions	Domestic hot water (DHW)		°C	-25±43	-25±43
		Unit (width x height x depth)		mm	1118×865×523	1118×865×523
	Weight	Packaging (width x height x depth)		mm	1190×970×560	1190×970×560
Net		kg	78,5	78,5		
		Gross		kg	92	
Indoor unit/ hydraulic module	Power supply			V/Ph/Hz	380±415/3/50	380±415/3/50
	Domestic hot water tank	Typ			Stainless steel	Stainless steel
		Material			SUS 316L	SUS 316L
		Volume		L	190	190
		Max. water temperature		°C	70	70
		Insulation (material) / thickness		mm	Polyurethane (cyclopentane) / 45	Polyurethane (cyclopentane) / 45
	Heat exchanger			plate	plate	
	Auxiliary heater	Electric power		kW	3/6/9	3/6/9
		Capacity steps			3	3
	Water pump	Type			DC Inverter	DC Inverter
		Head		m	9	9
	Expansion vessel			L	8	8
	Water connections	Heating circuit (supply/return)		cal	External thread 1"	External thread 1"
		DHW circuit (cold water, hot water, circulation)		cal	External thread 3/4"	External thread 3/4"
	Indoor unit sound power level ⁷			dB	40	40
	Temperature range	Room		°C	5±35	5±35
		Heating		°C	25±65	25±65
Cooling		°C	5±25	5±25		
Domestic hot water (DHW)		°C	30±60	30±60		
Dimensions	Unit (width x height x depth)		mm	600x1683x600	600x1683x600	
	Packaging (width x height x depth)		mm	653x1900x653	653x1900x653	
Weight	Net		kg	138,6	138,6	
	Gross		kg	153,8	153,8	

1. Technical specification complies with the requirements of standards: EN16147/2017;EU No: 812/2013

2. DB/WB 7/6°C, LWT 35°C (ΔT = 5°C)

3. DB/WB 7/6°C, LWT 45°C (ΔT = 5°C)

4. DB 35°C, LWT 18°C (ΔT = 5°C)

5. DB 35°C, LWT 7°C (ΔT = 5°C)

6. Technical specification complies with the requirements of standards: EN14511/2018; EN14825/2018; EU No: 811/2013

7. Sound power level in heating mode is given in accordance with EN 12102 standard under conditions consistent with EN 14825.

SPLIT ALL IN ONE

Set				ALL-ONE-4A1/240	ALL-ONE-6A1/240	
Outdoor unit				MHA-V4W/D2N8-B	MHA-V6W/D2N8-B	
Indoor unit				HBT-A100/240CD30GN8-B		
Indoor unit	Load profile according to EN 16147			XL	XL	
	DHW production energy efficiency class ¹	temperate climate	class	A+	A+	
			COP	3,34	3,34	
		warm climate	class	A+	A+	
			COP	4,24	4,24	
		cold climate	class	A	A	
COP			2,63	2,63		
Heating	A7W35 ²	Capacity	kW	4,25	6,20	
		Input power	kW	0,82	1,24	
		COP		5,20	5,00	
	A7W45 ³	Capacity	kW	4,35	6,35	
		Input power	kW	1,14	1,69	
		COP		3,80	3,75	
Cooling	A35W18 ⁴	Capacity	kW	4,50	6,55	
		Input power	kW	0,81	1,34	
		EER		5,55	4,90	
	A35W7 ⁵	Capacity	kW	4,70	7,00	
		Input power	kW	1,36	2,33	
		EER		3,45	3,00	
Space heating	Seasonal energy efficiency class for space heating ⁶		Water outlet temperature 35°C	class	A+++	A+++
			Water outlet temperature 55°C	class	A++	A++
Outdoor unit	Power supply			V/Ph/Hz	220÷240/1/50	220÷240/1/50
	Refrigerant	Type (GWP)		class	R32 (675)	R32 (675)
		Charge		kg	1,50	1,50
		Piping length without charging		m	< 15	< 15
		Additional charge		g/m	20	20
	Refrigerant piping	Liquid pipe diameter		mm	6,35	6,35
		Gas pipe diameter		mm	15,9	15,9
		Max. piping length		m	30	30
		Max. height difference		m	20	20
	Compressor type				Twin rotary DC	Twin rotary DC
	Fan type				DC	DC
	Outdoor unit sound power level ⁷			dB	56	58
	Temperature range	Heating		°C	-25÷35	-25÷35
		Cooling		°C	-5÷43	-5÷43
		Domestic hot water (DHW)		°C	-25÷43	-25÷43
	Dimensions	Unit (width x height x depth)		mm	1008×712×426	1008×712×426
Packaging (width x height x depth)		mm	1065×810×485	1065×810×485		
Weight	Net		kg	60	60	
	Gross		kg	65,5	65,5	
Indoor unit/ hydraulic module	Power supply			V/Ph/Hz	220÷240/1/50	220÷240/1/50
	Domestic hot water tank	Typ			Stainless steel	Stainless steel
		Material			SUS 316L	SUS 316L
		Volume		L	240	240
		Max. water temperature		°C	70	70
	Insulation (material) / thickness			mm	Polyurethane (cyclopentane) / 45	Polyurethane (cyclopentane) / 45
	Heat exchanger				plate	plate
	Auxiliary heater	Electric power		kW	3	3
		Capacity steps			1	1
	Water pump	Type			DC Inverter	DC Inverter
		Head		m	9	9
	Expansion vessel			L	8	8
	Water connections	Heating circuit (supply/return)		cal	External thread 1"	External thread 1"
		DHW circuit (cold water, hot water, circulation)		cal	External thread 3/4"	External thread 3/4"
	Indoor unit sound power level ⁷			dB	38	38
	Temperature range	Room		°C	5÷35	5÷35
Heating		°C	25÷65	25÷65		
Cooling		°C	5÷25	5÷25		
Domestic hot water (DHW)		°C	30÷60	30÷60		
Dimensions	Unit (width x height x depth)		mm	600x1943x600	600x1943x600	
	Packaging (width x height x depth)		mm	653x2160x653	653x2160x653	
Weight	Net		kg	155,3	155,3	
	Gross		kg	170,2	170,2	

1. Technical specification complies with the requirements of standards: EN16147/2017;EU No: 812/2013
2. DB/WB 7/6°C, LWT 35°C (ΔT = 5°C)
3. DB/WB 7/6°C, LWT 45°C (ΔT = 5°C)
4. DB 35°C, LWT 18°C (ΔT = 5°C)
5. DB 35°C, LWT 7°C (ΔT = 5°C)
6. Technical specification complies with the requirements of standards: EN14511/2018; EN14825/2018; EU No: 811/2013
7. Sound power level in heating mode is given in accordance with EN 12102 standard under conditions consistent with EN 14825.

SPLIT ALL IN ONE

Set				ALL-ONE-8A1/240	ALL-ONE-10A1/240	ALL-ONE-12A3/240
Outdoor unit				MHA-V8W/D2N8-B	MHA-V10W/D2N8-B	MHA-V12W/D2RN8-B
Indoor unit				HBT-A100/240CD590GN8-B		HBT-A160/240CD590GN8-B
Indoor unit	Load profile according to EN 16147 DHW production energy efficiency class ¹	temperate climate	class	XL	XL	XL
			COP	A+	A+	A+
		warm climate	class	A+	A+	A+
			COP	4,18	4,18	3,73
		cold climate	class	A	A	A
			COP	2,72	2,72	2,24
Heating	A7W35 ²	Capacity	kW	8,30	10,00	12,10
		Input power	kW	1,60	2,00	2,44
		COP		5,20	5,00	4,95
	A7W45 ³	Capacity	kW	8,20	10,00	12,00
		Input power	kW	2,08	2,63	3,24
		COP		3,95	3,80	3,80
Cooling	A35W18 ⁴	Capacity	kW	8,40	10,00	12,30
		Input power	kW	1,66	2,08	3,00
		EER		5,05	4,80	4,00
	A35W7 ⁵	Capacity	kW	7,40	8,20	11,60
		Input power	kW	2,19	2,48	4,22
		EER		3,38	3,30	2,75
Space heating	Seasonal energy efficiency class for space heating ⁶	Water outlet temperature 35°C	class	A+++	A+++	A+++
		Water outlet temperature 55°C	class	A++	A++	A++
Outdoor unit	Power supply		V/Ph/Hz	220+240/1/50	220+240/1/50	380+415/3/50
	Refrigerant	Type (GWP)	class	R32 (675)	R32 (675)	R32 (675)
		Charge	kg	1,65	1,65	1,84
		Piping length without charging	m	< 15	< 15	< 15
		Additional charge	g/m	38	38	38
	Refrigerant piping	Liquid pipe diameter	mm	9,52	9,52	9,52
		Gas pipe diameter	mm	15,9	15,9	15,9
		Max. piping length	m	30	30	30
		Max. height difference	m	20	20	20
	Compressor type			Twin rotary DC	Twin rotary DC	Twin rotary DC
	Fan type			DC	DC	DC
	Outdoor unit sound power level ⁷		dB	59	60	64
	Temperature range	Heating	°C	-25+35	-25+35	-25+35
		Cooling	°C	-5+43	-5+43	-5+43
	Dimensions	Domestic hot water (DHW)	°C	-25+43	-25+43	-25+43
		Unit (width x height x depth)	mm	1118x865x523	1118x865x523	1118x865x523
	Weight	Packaging (width x height x depth)	mm	1190x970x560	1190x970x560	1190x970x560
		Net	kg	78,5	78,5	112
	Indoor unit/ hydraulic module	Gross	kg	92	92	125
		Power supply		V/Ph/Hz	380+415/3/50	380+415/3/50
Domestic hot water tank		Type		Stainless steel	Stainless steel	Stainless steel
		Material		SUS 316L	SUS 316L	SUS 316L
		Volume	L	240	240	240
		Max. water temperature	°C	70	70	70
Heat exchanger		Insulation (material) / thickness	mm	Polyurethane (cyclopentane) / 45	Polyurethane (cyclopentane) / 45	Polyurethane (cyclopentane) / 45
Auxiliary heater		Electric power	kW	3/6/9	3/6/9	3/6/9
		Capacity steps		3	3	3
Water pump		Type		DC Inverter	DC Inverter	DC Inverter
		Head	m	9	9	9
Expansion vessel			L	8	8	8
Water connections		Heating circuit (supply/return)	cal	External thread 1"	External thread 1"	External thread 1"
		DHW circuit (cold water, hot water, circulation)	cal	External thread 3/4"	External thread 3/4"	External thread 3/4"
Indoor unit sound power level ⁷			dB	40	40	44
Temperature range		Room	°C	5+35	5+35	5+35
		Heating	°C	25+65	25+65	25+65
		Cooling	°C	5+25	5+25	5+25
		Domestic hot water (DHW)	°C	30+60	30+60	30+60
Dimensions		Unit (width x height x depth)	mm	600x1943x600	600x1943x600	600x1943x600
	Packaging (width x height x depth)	mm	653x2160x653	653x2160x653	653x2160x653	
Weight	Net	kg	155,3	155,3	157,3	
	Gross	kg	170,2	170,2	172,2	

1. Technical specification complies with the requirements of standards: EN16147/2017;EU No: 812/2013

2. DB/WB 7/6°C, LWT 35°C (ΔT = 5°C)

3. DB/WB 7/6°C, LWT 45°C (ΔT = 5°C)

4. DB 35°C, LWT 18°C (ΔT = 5°C)

5. DB 35°C, LWT 7°C (ΔT = 5°C)

6. Technical specification complies with the requirements of standards: EN14511/2018; EN14825/2018; EU No: 811/2013

7. Sound power level in heating mode is given in accordance with EN 12102 standard under conditions consistent with EN 14825.

SPLIT

Set			M-Thermal-4B1HB	M-Thermal-6B1HB	M-Thermal-8B1HB	M-Thermal-10B1HB	M-Thermal-12B1HB
Outdoor unit			MHA-V4W/D2N8-B	MHA-V6W/D2N8-B	MHA-V8W/D2N8-B	MHA-V10W/D2N8-B	MHA-V12W/D2N8-B
Indoor unit			HB-A60/CD30GN8-B	HB-A60/CD30GN8-B	HB-A100/CD590GN8-B	HB-A100/CD590GN8-B	HB-A160/CD590GN8-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
Heating (A7W35)	Capacity	kW	4,25	6,20	8,30	10,00	12,10
	Input power	kW	0,82	1,24	1,60	2,00	2,44
	COP		5,18	5,00	5,19	5,00	4,96
Heating (A7W45)	Capacity	kW	4,35	6,35	8,20	10,00	12,30
	Input power	kW	1,14	1,69	2,08	2,63	3,24
	COP		3,82	3,76	3,94	3,80	3,80
Heating (A7W55)	Capacity	kW	4,40	6,00	7,50	9,50	12,00
	Input power	kW	1,49	2,00	2,36	3,06	3,87
	COP		2,95	3,00	3,18	3,10	3,10
Cooling (A35W18)	Capacity	kW	4,50	6,55	8,40	10,00	12,00
	Input power	kW	0,81	1,34	1,66	2,08	3,00
	EER		5,56	4,89	5,06	4,81	4,00
Cooling (A35W7)	Capacity	kW	4,70	7,00	7,40	8,20	11,60
	Input power	kW	1,36	2,33	2,19	2,48	4,22
	EER		3,46	3,00	3,38	3,31	2,75
Energy efficiency rating	Outlet water temperature 35°C		A+++	A+++	A+++	A+++	A+++
	Outlet water temperature 55°C		A++	A++	A++	A++	A++
SCOP ³	Outlet water temperature 35°C		4,85	4,95	5,21	5,19	4,81
	Outlet water temperature 55°C		3,31	3,52	3,36	3,49	3,45
SEER	Outlet water temperature 7°C		4,99	5,34	5,84	5,98	4,89
	Outlet water temperature 18°C		7,77	8,21	8,95	8,78	7,10
MOP (max. overcurrent protection)			18	18	19	19	30
MCA (min. circuit ampacity)			12	14	16	17	25
Sound power level ¹	Heating A7W35	dB(A)	56	58	59	60	64
Sound pressure level ²		dB(A)	44,1	46,4	47,3	49,8	51,2
Outdoor fan	Motor type		DC	DC	DC	DC	DC
	No. of fans		1	1	1	1	1
Refrigerant	Type/charge	-/kg	R32/1,5	R32/1,5	R32/1,65	R32/1,65	R32/1,84
Piping	Liquid/gas	mm	Ø6,35/Ø15,9	Ø6,35/Ø15,9	Ø9,52/Ø15,9	Ø9,52/Ø15,9	Ø9,52/Ø15,9
	Min. piping length	m	2	2	2	2	2
	Max. piping length	m	30	30	30	30	30
	Max. height difference	m	20	20	20	20	20
Dimensions	Width x Height x Depth	mm	1007x712x426	1007x712x485	1118x864x523	1118x864x523	1118x864x523
Transport dimensions	Width x Height x Depth	mm	1065x800x485	1065x800x485	1180x890x560	1180x890x560	1180x890x560
Weight	Net/gross	kg	58/64	58/64	77/88	77/88	96/110
Outdoor air temperature range	Cooling	°C	-5-43	-5-43	-5-43	-5-43	-5-43
	Heating	°C	-25-35	-25-35	-25-35	-25-35	-25-35
	Domestic Hot Water	°C	-25-43	-25-43	-25-43	-25-43	-25-43

1. Testing standard for sound power in accordance with: EN12102-1.
2. Sound pressure level measured at a distance of 1 m from the unit and $(1+H)/2m$ (where H is the height of the unit) above the floor in the semi-anechoic chamber. The sound pressure level is the maximum value tested in two conditions A7W55 and A35W18. For 18 kW the value is calculated and serves only as a reference.
3. Seasonal space heating energy efficiency class tested in average climate conditions.

SPLIT

Set			M-Thermal-14B1HB	M-Thermal-16B1HB	M-Thermal-12B3HB	M-Thermal-14B3HB	M-Thermal-16B3HB
Outdoor unit			MHA-V14W/D2N8-B	MHA-V16W/D2N8-B	MHA-V12W/D2RN8-B	MHA-V14W/D2RN8-B	MHA-V16W/D2RN8-B
Indoor unit			HB-A160/CD590GN8-B	HB-A160/CD590GN8-B	HB-A160/CD590GN8-B	HB-A160/CD590GN8-B	HB-A160/CD590GN8-B
Power supply		V/Ph/Hz	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50
Heating (A7W35)	Capacity	kW	14,50	16,00	12,10	14,50	16,00
	Input power	kW	3,09	3,56	2,44	3,09	3,56
	COP		4,69	4,49	4,96	4,69	4,49
Heating (A7W45)	Capacity	kW	14,20	16,00	12,30	14,20	16,00
	Input power	kW	3,89	4,44	3,24	3,89	4,44
	COP		3,65	3,60	3,80	3,65	3,60
Heating (A7W55)	Capacity	kW	13,80	16,00	12,00	13,80	16,00
	Input power	kW	4,60	5,52	3,87	4,60	5,52
	COP		3,00	2,90	3,10	3,00	2,90
Cooling (A35W18)	Capacity	kW	13,50	14,90	12,00	13,50	14,90
	Input power	kW	3,75	4,38	3,00	3,75	4,38
	EER		3,60	3,40	4,00	3,60	3,40
Cooling (A35W7)	Capacity	kW	12,70	14,00	11,60	12,70	14,00
	Input power	kW	4,98	5,71	4,22	4,98	5,71
	EER		2,55	2,45	2,75	2,55	2,45
Energy efficiency rating	Outlet water temperature 35°C		A+++	A+++	A+++	A+++	A+++
	Outlet water temperature 55°C		A++	A++	A++	A++	A++
SCOP ³	Outlet water temperature 35°C		4,72	4,62	4,81	4,72	4,62
	Outlet water temperature 55°C		3,47	3,41	3,45	3,47	3,41
SEER	Outlet water temperature 7°C		4,86	4,69	4,86	4,83	4,67
	Outlet water temperature 18°C		6,90	6,75	7,04	6,85	6,71
MOP (max. overcurrent protection)			30	30	14	14	14
MCA (min. circuit ampacity)			26	27	10	11	12
Sound power level ¹	Heating A7W35	dB(A)	65	68	64	65	68
Sound pressure level ²		dB(A)	51,8	51,8	52,0	52,2	51,8
Outdoor fan	Motortype		DC	DC	DC	DC	DC
	No. of fans		1	1	1	1	1
Refrigerant	Type/charge	-/kg	R32/1,84	R32/1,84	R32/1,84	R32/1,84	R32/1,84
Piping	Liquid/gas	mm	Ø9,52/Ø15,9	Ø9,52/Ø15,9	Ø9,52/Ø15,9	Ø9,52/Ø15,9	Ø9,52/Ø15,9
	Min. piping length	m	2	2	2	2	2
	Max. piping length	m	30	30	30	30	30
	Max. height difference	m	20	20	20	20	20
Dimensions	Width x Height x Depth	mm	1118x864x523	1118x864x523	1118x864x523	1118x864x523	1118x864x523
Transport dimensions	Width x Height x Depth	mm	1180x890x560	1180x890x560	1180x890x560	1180x890x560	1180x890x560
Weight	Net/gross	kg	96/110	96/110	112/125	112/125	112/125
Outdoor air temperature range	Cooling	°C	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating	°C	-25~35	-25~35	-25~35	-25~35	-25~35
	Domestic Hot Water	°C	-25~43	-25~43	-25~43	-25~43	-25~43

1. Testing standard for sound power in accordance with: EN12102-1.
2. Sound pressure level measured at a distance of 1 m from the unit and $(1+H)/2m$ (where H is the height of the unit) above the floor in the semi-anechoic chamber. The sound pressure level is the maximum value tested in two conditions A7W55 and A35W18. For 18 kW the value is calculated and serves only as a reference.
3. Seasonal space heating energy efficiency class tested in average climate conditions.

SPLIT - Indoor unit

Indoor unit			HB-A60/CD30GN8-B	HB-A100/CD590GN8-B	HB-A160/CD590GN8-B
Compatible outdoor unit			MHA-V4W/D2N8-B MHA-V4W/D2N8-B	MHA-V8W/D2N8-B MHA-V10W/D2N8-B	MHA-V12W/D2(R)N8-B MHA-V14W/D2(R)N8-B MHA-V16W/D2(R)N8-B
Power supply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Function			heating and cooling		
Outlet water temperature range	Cooling	°C	5~25	5~25	5~25
	Heating	°C	12~65	12~65	12~65
	Domestic Hot Water (tank)	°C	40~60	40~60	40~60
Sound power level		dB(A)	38	42	43
Dimensions	Width x height x depth	mm	420x790x270	420x790x270	420x790x270
Transport dimensions	Width x height x depth	mm	525x1050x360	525x1050x360	525x1050x360
Weight	Net/gross	kg	37/43	37/43	39/45
Water circuit	Pipe connection	cal	R1"	R1"	R1"
	Safety valve pressure	MPa	0,3	0,3	0,3
	Drain pipe connection	mm	Ø25	Ø25	Ø25
	Expansion tank - volume	L	8	8	8
	Expansion tank - max. water pressure	MPa	0,3	0,3	0,3
	Expansion tank - pre-pressure	MPa	0,1	0,1	0,1
	Water side heat exchanger		plate	plate	plate
Water pump head			9	9	9
Refrigerant circuit	Liquid/gas	mm	Ø6,35/Ø15,9	Ø6,35/Ø15,9	Ø9,52/Ø15,9

MONO

Outdoor unit			MHC-V4W/ D2N8-BE30	MHC-V6W/ D2N8-BE30	MHC-V8W/ D2N8-BE30	MHC-V10W/ D2N8-BE30	MHC-V12W/ D2N8-BE30	MHC-V14W/ D2N8-BE30	MHC-V16W/ D2N8-BE30
Power supply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Heating (A7W35)	Capacity	kW	4,20	6,35	8,40	10,0	12,10	14,50	15,90
	Input power	kW	0,82	1,28	1,63	2,02	2,44	3,15	3,53
	COP		5,12	4,96	5,15	4,95	4,96	4,60	4,50
Heating (A7W45)	Capacity	kW	4,30	6,30	8,10	10,00	12,30	14,10	16,00
	Input power	kW	1,13	1,70	2,10	2,67	3,32	3,92	4,57
	COP		3,81	3,71	3,86	3,75	3,70	3,60	3,50
Heating (A7W55)	Capacity	kW	4,40	6,00	7,50	9,50	11,90	13,80	16,00
	Input power	kW	1,49	2,03	2,36	3,06	3,90	4,68	5,61
	COP		2,95	2,96	3,18	3,10	3,05	2,95	2,85
Cooling (A35W18)	Capacity	kW	4,50	6,50	8,30	9,90	12,00	13,50	14,90
	Input power	kW	0,82	1,35	1,64	2,18	3,04	3,75	4,38
	EER		5,49	4,81	5,06	4,54	3,95	3,60	3,40
Cooling (A35W7)	Capacity	kW	4,70	7,00	7,45	8,20	11,50	12,40	14,00
	Input power	kW	1,36	2,33	2,22	2,52	4,18	4,96	5,60
	EER		3,46	3,00	3,36	3,25	2,75	2,50	2,50
Energy efficiency class ³	Outlet water temperature 35°C		A+++	A+++	A+++	A+++	A+++	A+++	A+++
	Outlet water temperature 55°C		A++	A++	A++	A++	A++	A++	A++
Sound power level ¹	Heating A7W35	dB(A)	55	58	59	60	65	65	68
Sound pressure level ²		dB(A)	45	47,5	48,5	50,5	53	53,5	57,5
Outdoor fan	Motortype		DC	DC	DC	DC	DC	DC	DC
	No. of fans		1	1	1	1	1	1	1
Refrigerant	Type/charge	-/kg	R32/1,4	R32/1,4	R32/1,4	R32/1,4	R32/1,75	R32/1,75	R32/1,75
Dimensions	Width x Height x Depth	mm	1295x792x429	1295x792x429	1385x945x526	1385x945x526	1385x945x526	1385x945x526	1385x945x526
Transport dimensions transportowe	Width x Height x Depth	mm	1375x945x475	1375x945x475	1465x1120x560	1465x1120x560	1465x1120x560	1465x1120x560	1465x1120x560
Weight	Net/gross	kg	98/121	98/121	121/148	121/148	144/170	144/170	144/170
Outdoor air temperature range	Cooling	°C	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating	°C	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35
	Domestic Hot Water	°C	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43
Outlet water temperature range	Cooling	°C	5~30	5~30	5~30	5~30	5~30	5~30	5~30
	Heating	°C	12~65	12~65	12~65	12~65	12~65	12~65	12~65
	Domestic Hot Water (tank)	°C	10~60	10~60	10~60	10~60	10~60	10~60	10~60

1. Testing standard for sound power in accordance with: EN12102-1.
2. Sound pressure level measured at a distance of 1 m from the unit and (1+H)/2m (where H is the height of the unit) above the floor in the semi-anechoic chamber.
The sound pressure level is the maximum value tested in the following conditions:
Outdoor air temperature 7°C DB, 85% R.H.; inlet water temperature 30°, outlet water temperature 35°C.
Outdoor air temperature 7°C DB, 85% R.H.; inlet water temperature 47°, outlet water temperature 55°C.
3. Seasonal space heating energy efficiency class tested in average climate conditions.

MONO

Outdoor unit			MHC-V12W/ D2RN8-BER90	MHC-V14W/ D2RN8-BER90	MHC-V16W/ D2RN8-BER90	MHC-V18W/ D2RN8	MHC-V22W/ D2RN8	MHC-V26W/ D2RN8	MHC-V30W/ D2RN8
Power supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Heating (A7W35)	Capacity	kW	12.10	14.50	15.90	18.0	22.00	26.00	30.10
	Input power	kW	2.44	3.15	3.53	3.83	5.00	6.37	8.03
	COP		4.96	4.60	4.50	4.70	4.40	4.08	3.75
Heating (A7W45)	Capacity	kW	12.30	14.10	16.00	18.00	22.00	26.00	30.00
	Input power	kW	3.32	3.92	4.57	5.14	6.47	8.39	10.34
	COP		3.70	3.60	3.50	3.50	3.40	3.10	2.90
Heating (A7W55)	Capacity	kW	11.90	13.80	16.00	18.00	22.00	26.00	30.00
	Input power	kW	3.90	4.68	5.61	6.54	8.30	10.61	13.04
	COP		3.05	2.95	2.85	2.75	2.65	2.45	2.30
Cooling (A35W18)	Capacity	kW	12.00	13.50	14.90	18.50	23.00	27.00	31.00
	Input power	kW	3.04	3.75	4.38	3.89	5.00	6.28	7.75
	EER		3.95	3.60	3.40	4.76	4.60	4.30	4.00
Cooling (A35W7)	Capacity	kW	11.50	12.40	14.00	17.00	21.00	26.00	30.00
	Input power	kW	4.18	4.96	5.60	5.57	7.12	9.63	12.76
	EER		2.75	2.50	2.50	3.05	2.95	2.70	2.35
Energy efficiency class ³	Outlet water temperature 35°C		A+++	A+++	A+++	A+++	A+++	A+++	A+++
	Outlet water temperature 55°C		A++	A++	A++	A++	A++	A+	A+
Sound power level ¹	Heating A7W35	dB(A)	65	65	68	71	73	75	77
Sound pressure level ²		dB(A)	53,5	54	58	57,6	59,8	61,5	63,5
Outdoor fan	Motor type		DC	DC	DC	DC	DC	DC	DC
	No. of fans		1	1	1	2	2	2	2
Refrigerant	Type/charge	-/kg	R32/1,75	R32/1,75	R32/1,75	R32/5,0	R32/5,0	R32/5,0	R32/5,0
Dimensions	Width x Height x Depth	mm	1385x945x526	1385x945x526	1385x945x526	1129x1558x440	1129x1558x440	1129x1558x440	1129x1558x440
Transport dimensions	Width x Height x Depth	mm	1465x1120x560	1465x1120x560	1465x1120x560	1220x1735x565	1220x1735x565	1220x1735x565	1220x1735x565
Weight	Net/gross	kg	160/188	160/188	160/188	177/206	177/206	177/206	177/206
Outdoor air temperature range	Cooling	°C	-5~43	-5~43	-5~43	-5~46	-5~46	-5~46	-5~46
	Heating	°C	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35
	Domestic Hot Water	°C	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43
Outlet water temperature range	Cooling	°C	5~30	5~30	5~30	5~25	5~25	5~25	5~25
	Heating	°C	12~65	12~65	12~65	25~60	25~60	25~60	25~60
	Domestic Hot Water (tank)	°C	10~60	10~60	10~60	40~60	40~60	40~60	40~60

1. Testing standard for sound power in accordance with: EN12102-1.
2. Sound pressure level measured at a distance of 1 m from the unit and (1+H)/2m (where H is the height of the unit) above the floor in the semi-anechoic chamber.
The sound pressure level is the maximum value tested in the following conditions:
Outdoor air temperature 7°C DB, 85% R.H.; inlet water temperature 30°, outlet water temperature 35°C.
Outdoor air temperature 7°C DB, 85% R.H.; inlet water temperature 47°, outlet water temperature 55°C.
3. Seasonal space heating energy efficiency class tested in average climate conditions.