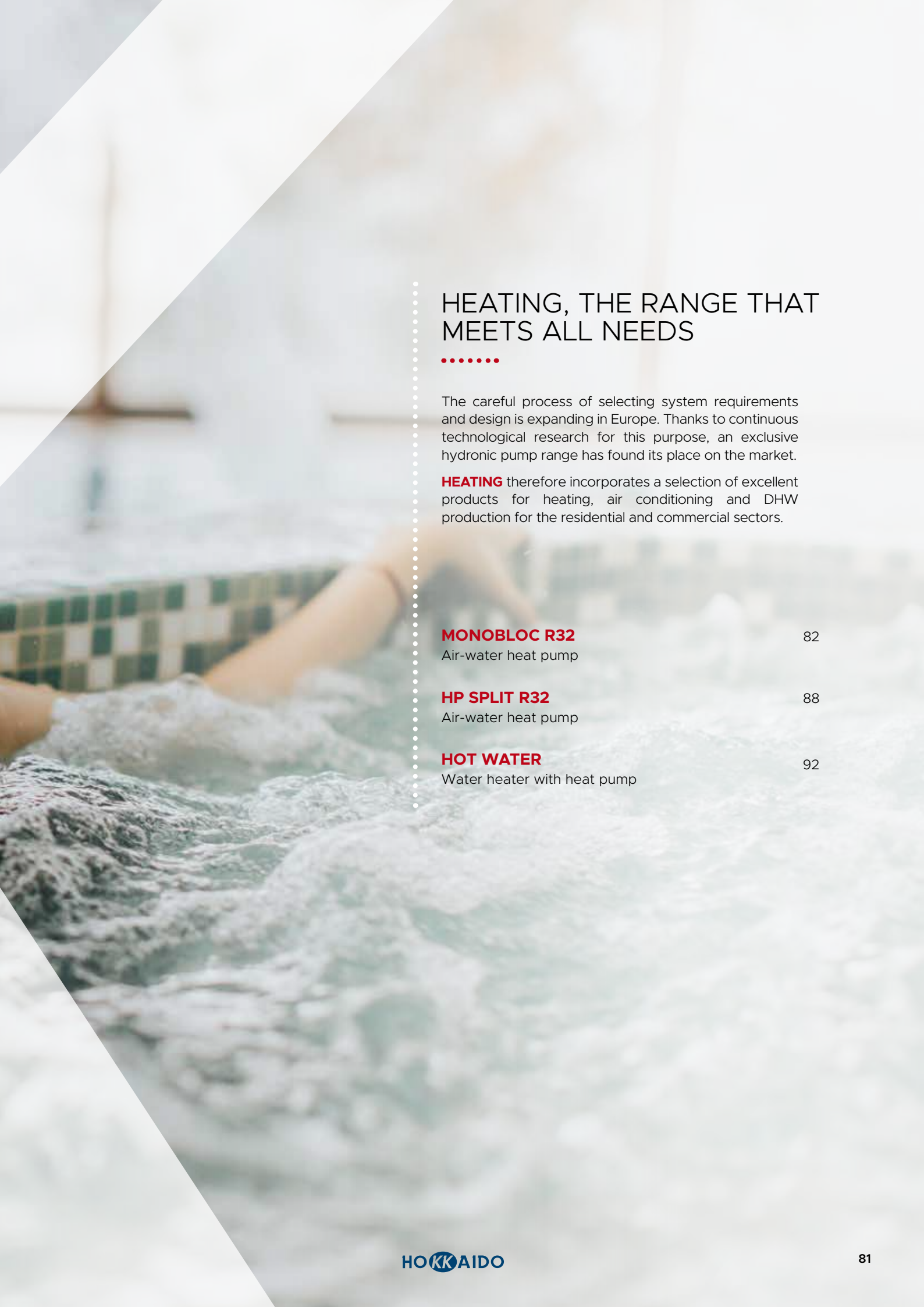


HEATING, THE RANGE THAT MEETS ALL NEEDS

The careful process of selecting system requirements and design is expanding in Europe. Thanks to continuous technological research for this purpose, an exclusive hydronic pump range has found its place on the market.

HEATING therefore incorporates a selection of excellent products for heating, air conditioning and DHW production for the residential and commercial sectors.

MONOBLOC R32

OUTDOOR UNITS

Single phase 4.65~8.60 kW
HCEWMS 500 Z
HCEWMS 700 Z
HCEWMS 900 Z

Single phase 12.30~16.30 kW
HCEWMS 1200 - 1400 - 1600 Z
Three-phase 12.30~16.30 kW
HCVWMS 1202 - 1402 - 1602 Z

Three-phase 18.00~30.10 kW
HCVWMS 1802 - 2202 Z
HCVWMS 2602- 3002 Z

DUAL STAGE COMPRESSOR

The dual stage compressor reduces any vibrations during rotation, effectively dampening noise.

CIRCULATOR

Circulation pump included.

BROAD OPERATING RANGE

COOLING
-5°/+46°
(outside temperature)

HEATING
-25°/+35°
(outside temperature)

DHW PRODUCTION
-25°/+43°
(outside temperature)

PRODUCT PLUSES

3 operating modes
Auto, cooling, heating.

Disinfect
Activation of the anti-legionella function.

Timer
Daily and weekly.

Silent mode
Setting of two sound dampening levels and two timers.

Holiday mode
Timer setting during a selected period.

Recirculation pump
Pump on and off settable using the timer.

MODBUS
Wired remote control connection to MODBUS systems.

WiFi
Remote connection via built-in WiFi.

MONOBLOC R32

4 OPERATING MODES

- COOLING
- HEATING
- DOMESTIC HOT WATER
- AUTOMATIC

3 COMBINED OPERATING MODES

HEATING + DHW operating mode

- COOLING + DHW
- HEATING + DHW
- AUTOMATIC + DHW

SYSTEM

Climatic curve management

The system lets the user set 2 curves for each thermal zone:

- climatic curve in heating mode;
- climatic curve in cooling mode.

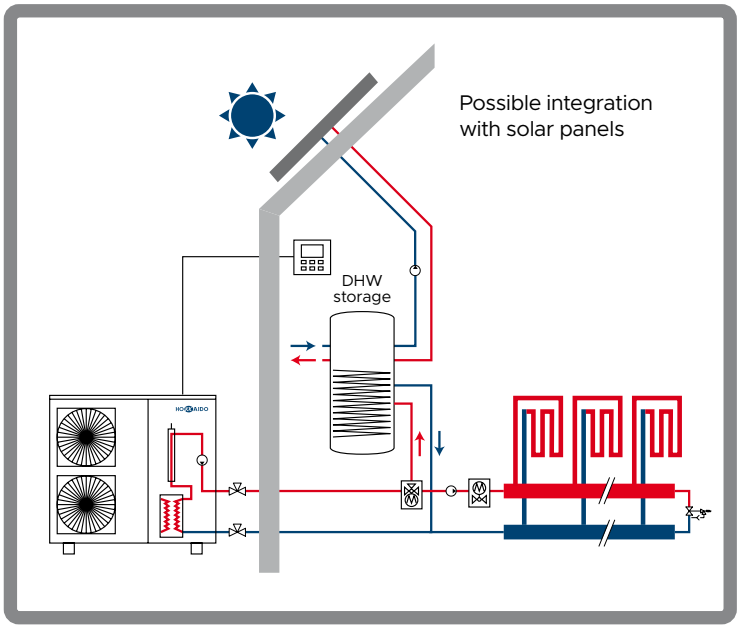
Up to 8 different climate curves can be selected for each mode, depending on the outside ambient temperature.

INSTALLATION FLEXIBILITY

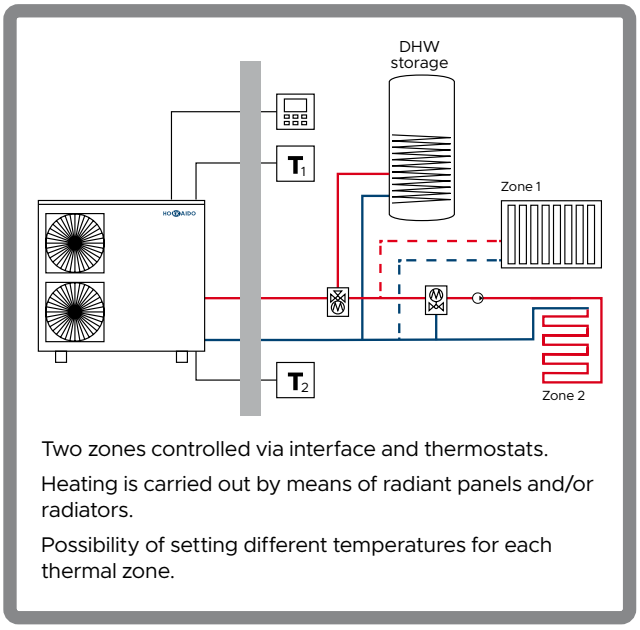
The monobloc in R32 offers extensive installation flexibility. Depending on the needs of the end user, the system lets you:

- heat and cool rooms with radiant floors, high efficiency radiators and/or fan coils;
- product domestic hot water;
- integrate the tank with thermal solar panels;
- set the maximum operating current.

Hydraulic connections diagram



Dual-zone system



Two zones controlled via interface and thermostats.

Heating is carried out by means of radiant panels and/or radiators.

Possibility of setting different temperatures for each thermal zone.

MONOBLOC R32

Single phase
4.65~8.60 kW

HCEWMS 500 Z
HCEWMS 700 Z
HCEWMS 900 Z

ENERGY EFFICIENCY CLASS

A+++

In heating mode with **35° C** delivery water temperature.

ENERGY EFFICIENCY CLASS

A++

In heating mode with **55° C** delivery water temperature.

Model				HCEWMS 500 Z	HCEWMS 700 Z	HCEWMS 900 Z
Heating	Rated power	A7//W35	kW	4.65	6.65	8.60
	Electrical absorption			0.93	1.35	1.87
	Performance coefficient		COP	5.00	4.93	4.60
	Rated power	A7/W45	kW	4.80	6.70	8.60
	Electrical absorption			1.33	1.88	2.50
	Performance coefficient		COP	3.61	3.56	3.44
	Seasonal energy efficiency (ηs)	35/55	%	176/127	176/127	177/126
	Energy efficiency class	35/55	-	A+++/A++	A+++/A++	A+++/A++
Cooling	Rated power	A35//W18	kW	4.60	6.45	8.00
	Electrical absorption			0.95	1.39	1.92
	Energy efficiency		EER	4.84	4.64	4.17
	Rated power	A35//W7	kW	4.85	6.30	7.95
	Electrical absorption			1.63	2.27	3.15
	Energy efficiency		EER	2.98	2.78	2.52
Operating limits	Outside air temperature	Heating	°C	-25~35		
		Cooling		-5~43		
		DHW		-25~43		
	Delivery water temperature	Heating	°C	25~60		
		Cooling	°C	5~25		
		DHW		40~60		
Refrigerant	Type (GWP)			R32 (675)		
	Quantity (tons CO2)		kg (t)	2.0 (1.350)		
	Control system			Electronic expansion valve		
Type of compressor				Twin Rotary - DC Inverter		
Internal circulator	Model			WILO Yonos PARA RS 15/6 RKC		
Expansion tank	Volume		L	2		
	Pre-load		bar	1.5		
Hydraulic connections	Water inlet/outlet		Inches	1"M	1"M	1"M
Electrical data	Power supply		Ph-V-Hz	1ph-220~240V-50Hz		
	Maximum current		A	14.10		
	Power cable		type	3x4 mm²		
Control	Standard			Wire remote control		
Sound pressure level at 1 m		Max	dB(A)	48.8	52.3	54.5
Sound power level		Max	dB(A)	61	64	67
Dimensions		LxDxH	mm	1210x402x945		
Net weight			kg	92		

NOTE: The data contained above refer to the following standards: EN14511:2013; EN14825:2013; EN50564:2011; EN12102:2011; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

MONOBLOC R32

Single phase 12.30~16.30 kW
HCEWMS 1200 - 1400 - 1600 Z
Three-phase 12.30~16.30 kW
HCVWMS 1202 - 1402 - 1602 Z

ENERGY EFFICIENCY CLASS
A++
In heating mode with **35° C** delivery water temperature.

ENERGY EFFICIENCY CLASS
A++
In heating mode with **55° C** delivery water temperature.

Model				HCEWMS 1200 Z	HCEWMS 1400 Z	HCEWMS 1600 Z	HCVWMS 1202 Z	HCVWMS 1402 Z	HCVWMS 1602 Z
Heating	Rated power	A7//W35	kW	12.30	14.10	16.30	12.30	14.10	16.30
	Electrical absorption			2.56	3.07	3.66	2.54	3.05	3.63
	Performance coefficient		COP	4.80	4.59	4.45	4.84	4.62	4.49
	Rated power	A7/W45	kW	12.40	14.10	16.20	12.40	14.10	16.20
	Electrical absorption			3.52	4.06	4.72	3.45	3.99	4.70
	Performance coefficient		COP	3.52	3.47	3.43	3.59	3.53	3.45
	Seasonal energy efficiency (ηs)	35/55	%	169/126	168/128	169/128	169/126	168/128	169/128
	Energy efficiency class	35/55	-	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++
Cooling	Rated power	A35//W18	kW	12.20	14.00	15.50	12.20	14.00	15.50
	Electrical absorption			2.55	3.10	3.64	2.53	3.11	3.63
	Energy efficiency		EER	4.78	4.52	4.26	4.82	4.50	4.27
	Rated power	A35//W7	kW	10.90	12.90	13.80	10.90	12.90	13.80
	Electrical absorption			3.74	4.64	5.21	3.72	4.62	5.19
	Energy efficiency		EER	2.91	2.78	2.65	2.93	2.79	2.66
Operating limits	Outside air temperature	Heating	°C	-25~35					
		Cooling		-5~46					
		DHW		-25~43					
	Delivery water temperature	Heating	°C	25~60					
		Cooling	°C	5~25					
		DHW		40~60					
Refrigerant	Type (GWP)			R32 (675)					
	Quantity (tons CO2)		kg (t)	2.8 (1.890)					
	Control system			Electronic expansion valve					
Type of compressor				Twin Rotary - DC Inverter					
Internal circulator	Model			WILO Yonos PARA RS 25/7.5 RKC					
Expansion tank	Volume		L	5					
	Pre-load		bar	1.5					
Hydraulic connections	Water inlet/outlet		Inches	1-1/4"M	1-1/4"M	1-1/4"M	1-1/4"M	1-1/4"M	1-1/4"M
Electrical data	Power supply		Ph-V-Hz	1ph-230V-50Hz			3ph-400V-50Hz		
	Maximum current		A	26.80			11.00		
	Power cable		type	3x6 mm²			5x2.5 mm²		
Control	Standard			Wire remote control					
Sound pressure level at 1 m		Max	dB(A)	57.6	58	58.1	57.2	58.1	59
Sound power level		Max	dB(A)	68	71	71	68	71	71
Dimensions		LxDxH	mm	1404x405x1414			1404x405x1414		
Net weight			kg	158			172		

NOTE: The data contained above refer to the following standards: EN14511:2013; EN14825:2013; EN50564:2011; EN12102:2011; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

MONOBLOC R32

Three-phase
18.00~30.10 kW

HCVWMS 1802 Z
HCVWMS 2202 Z
HCVWMS 2602 Z
HCVWMS 3002 Z

ENERGY EFFICIENCY CLASS

A+++

In heating mode with **35° C** delivery water temperature (models from 18.00 to 26.00 kW).

ENERGY EFFICIENCY CLASS

A++

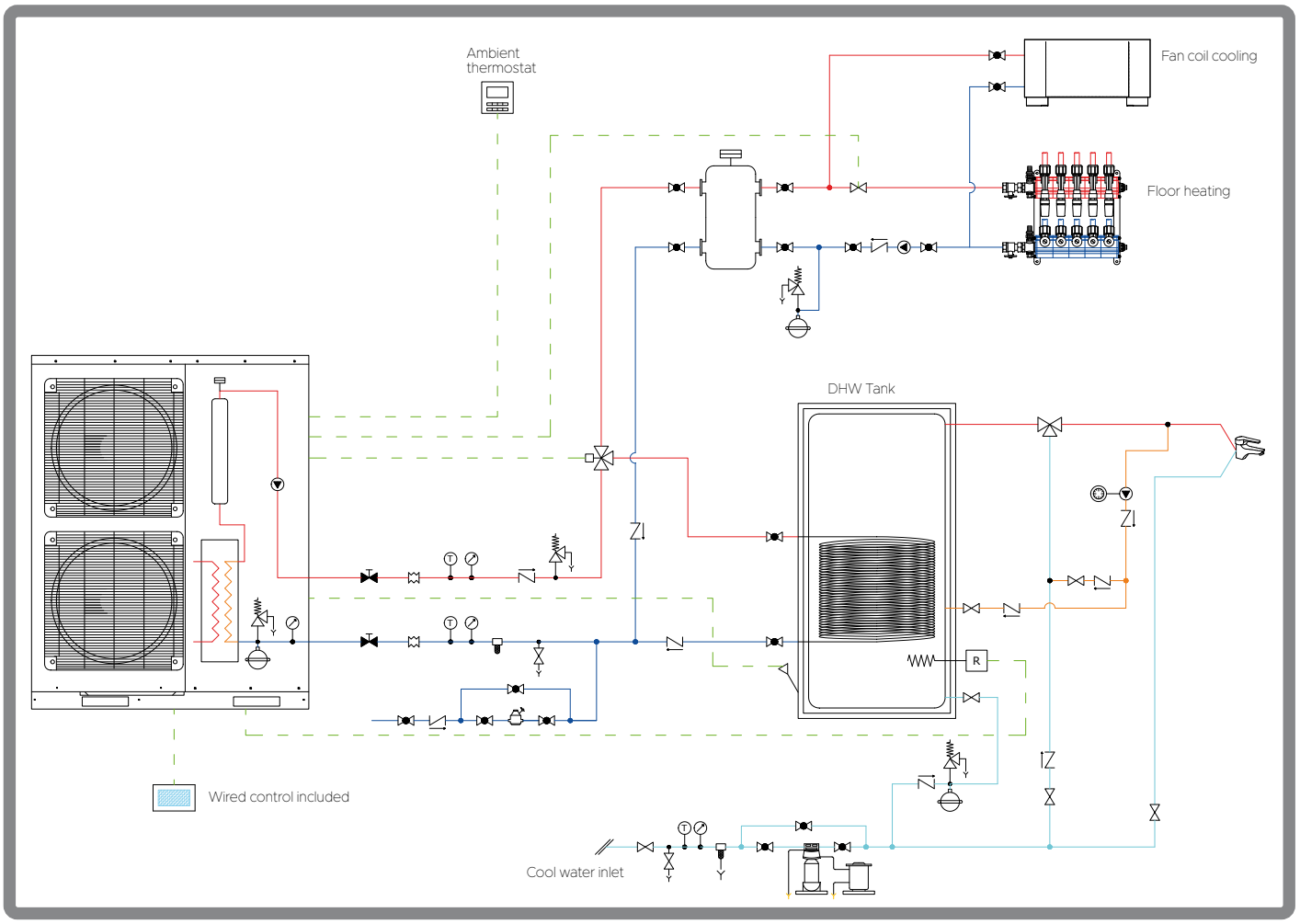
In heating mode with **55° C** delivery water temperature (models from 18.00 to 22.00 kW).

Model				HCVWMS 1802 Z	HCVWMS 2202 Z	HCVWMS 2602 Z	HCVWMS 3002 Z
Heating	Rated power	A7//W35	kW	18.00	22.00	26.00	30.10
	Electrical absorption			3.83	5.00	6.37	7.70
	Performance coefficient		COP	4.70	4.40	4.08	3.91
	Rated power	A7/W45	kW	18.00	22.00	26.00	30.00
	Electrical absorption			5.143	6.471	8.387	10.345
	Performance coefficient		COP	3.50	3.40	3.10	2.90
	Seasonal energy efficiency (ηs)	35/55	%	171.1/121.2	168.2/124.2	164.2/122.4	156.2/122.6
	Energy efficiency class	35/55	-	A+++/A++	A+++/A++	A+++/A+	A++/A+
Cooling	Rated power	A35//W18	kW	18.50	23.00	27.00	31.00
	Electrical absorption			3.895	5.00	6.279	7.75
	Energy efficiency		EER	4.75	4.60	4.30	4.00
	Rated power	A35//W7	kW	17.00	21.00	26.00	29.50
	Electrical absorption			5.574	7.119	9.63	11.569
	Energy efficiency		EER	3.05	2.95	2.70	2.55
Operating limits	Outside air temperature	Heating	℃	-25~35			
		Cooling		-5~46			
		DHW		-25~43			
	Delivery water temperature	Heating	℃	25~60			
		Cooling	℃	5~25			
		DHW		40~60			
Refrigerant	Type (GWP)			R32 (675)			
	Quantity (tons CO2)		kg (t)	5 (3.375)			
	Control system			Electronic expansion valve			
Type of compressor				Twin Rotary - DC Inverter			
Internal circulator	Model			WILO Yonos PARA RS 25/7.5 RKC			
Expansion tank	Volume		L	8			
	Pre-load		bar	1.0			
Hydraulic connections	Water inlet/outlet		Inches	1-1/4" BSP	1-1/4" BSP	1-1/4" BSP	1-1/4" BSP
Electrical data	Power supply		Ph-V-Hz	3ph-400V-50Hz			
	Maximum current		A	16.80	19.60	21.60	22.80
	Power cable		type	5x6 mm²			
Control	Standard			Wire remote control			
Sound pressure level at 1 m		Max	dB(A)	57.6	59.8	61.5	63.5
Sound power level		Max	dB(A)	71	73	75	77
Dimensions		LxDxH	mm	1129x440x1558	1129x440x1558	1129x440x1558	1129x440x1558
Net weight			kg	177	177	177	177

NOTE: The data contained above refer to the following standards: EN14511:2013; EN14825:2013; EN50564:2011; EN12102:2011; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

MONOBLOC R32

SYSTEM DIAGRAM



HP SPLIT R32

OUTDOOR UNITS

Single phase
4.20~6.50 kW

HCEMS 400 Z
HCEMS 600 Z

Single phase
8.40~10.00 kW

HCEMS 800 Z
HCEMS 1000 Z

INDOOR UNIT

Single phase
HHNMS 4-6 Z
HHNMS 8-10 Z

TANK

WT-XL-DW1-200~500C
WT-AP-DW1-300~500C

COP 5.15 (4.20 KW)

CLASS ENERGY RATING A+++/A++

WIDE RANGE OF AMBIENT TEMPERATURE

COOLING
-5°/+43°
(outside temperature)

HEATING
-25°/+35°
(outside temperature)

DHW PRODUCTION
-25°/+43°
(outside temperature)

WIDE RANGE OF WATER TEMPERATURE

COOLING
+7°/+30°

HEATING
+25°/+60°

DHW PRODUCTION
+40°/+60°

Eco mode
Energy saving function.

Disinfect
Activation of the anti-legionella function.

Timer
Daily and weekly.

Silent mode
Setting of two sound dampening levels and two timers.

Holiday mode
Timer setting during a selected period.

WiFi
Remote connection via built-in WiFi.

MODBUS
Wired remote control connection to MODBUS systems.

HP SPLIT R32

4 OPERATING MODES

- COOLING
- HEATING
- DOMESTIC HOT WATER
- AUTOMATIC

3 COMBINED OPERATING MODES

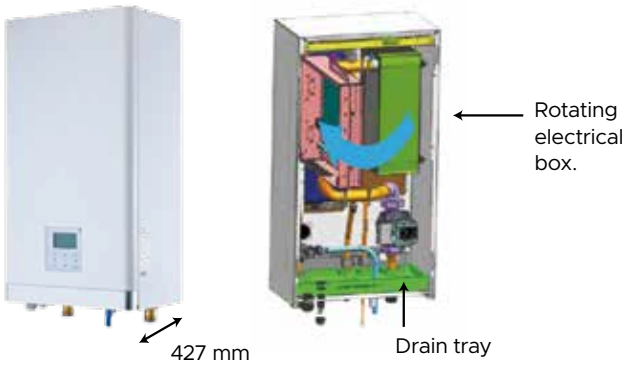
HEATING + DHW operating mode

- COOLING + DHW
- HEATING + DHW
- AUTOMATIC + DHW

SIMPLE INSTALLATION AND MAINTENANCE

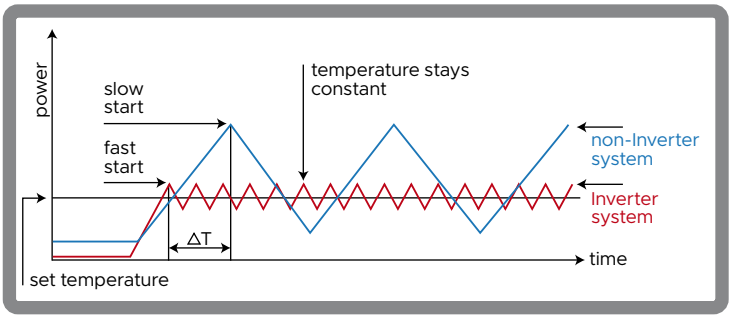
Extremely compact hydronic model (427 mm deep), suitable for replacing existing boilers.

The electrical box can be rotated to permit easy component installation and maintenance.



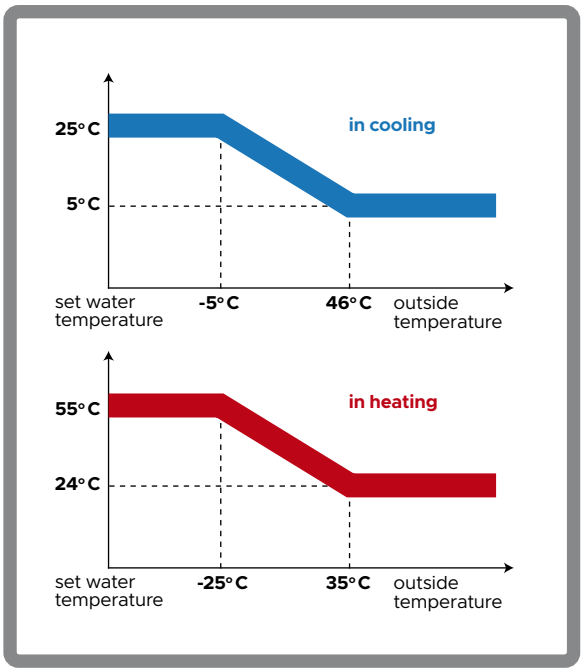
CONSTANT WATER TEMPERATURE

Compressor rotation is precise and ensures that the water temperature is kept constant around a set value.



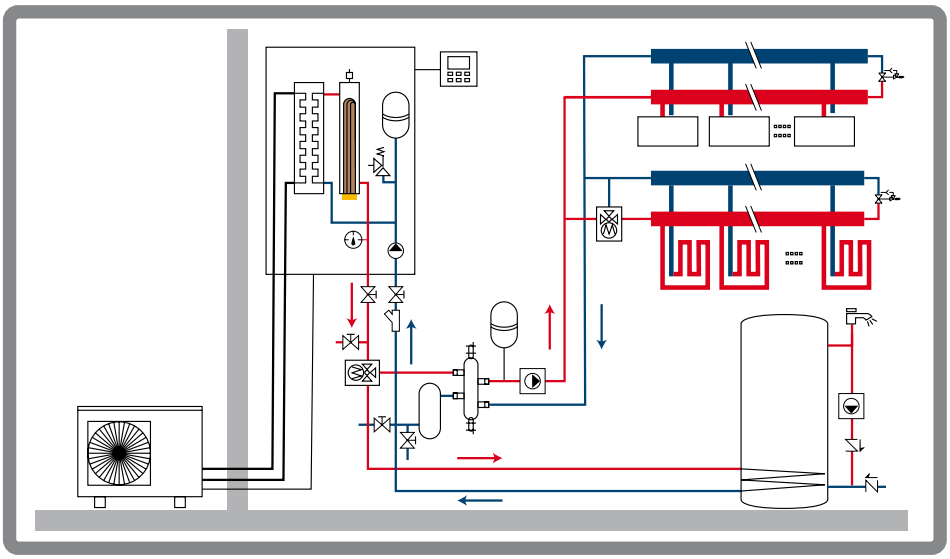
32 CLIMATIC CURVES

Absolute comfort with a climate curve that adapts to the climate. There are 32 pre-set climate curves to choose from, plus one customisable curve. Once the curve is selected, the unit sets the outlet water temperature according to the outside temperature.



HP SPLIT R32

SYSTEM DIAGRAM



Outdoor unit model				HCEMS 400 Z	HCEMS 600 Z	HCEMS 800 Z	HCEMS 1000 Z
Heating	Rated power	A7//W35	kW	4.20	6.50	8.40	10.00
	Electrical absorption			0.82	1.35	1.73	2.15
	Performance coefficient		COP	5.15	4.85	4.85	4.65
	Rated power	A7/W45	kW	4.20	6.35	8.05	9.85
	Electrical absorption			1.15	1.74	2.16	2.72
	Performance coefficient		COP	3.65	3.64	3.73	3.65
	Rated power	A7/W55	kW	4.10	5.75	7.50	9.30
	Electrical absorption			1.44	1.98	2.49	3.25
	Performance coefficient		COP	2.85	2.90	3.01	2.86
	Seasonal energy efficiency (ηs)	35/55	%	187.5/130.6	187.5/130.6	188.4/128	188.4/128
	Energy efficiency class	35/55	-	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Cooling	Rated power	A35//W18	kW	4.30	6.45	8.35	10.20
	Electrical absorption			0.77	1.32	1.79	2.40
	Energy efficiency		EER	5.60	4.88	4.67	4.25
	Rated power	A35//W7	kW	4.50	6.50	7.38	8.15
	Electrical absorption			1.36	2.20	2.44	2.76
	Energy efficiency		EER	3.32	2.95	3.02	2.95
Operating limits	Outside air temperature	Heating	°C	-25~35			
		Cooling		-5~43			
		DHW		-25~43			
Electrical data	Power supply		Ph/V/Hz	1ph-220~240V-50Hz	1ph-220~240V-50Hz	1ph-220~240V-50Hz	1ph-220~240V-50Hz
	Maximum current		A	11.30	11.30	16.70	16.70
	Power cable		type	3x2.5 mm²	3x2.5 mm²	3x4 mm²	3x4 mm²
Refrigerant circuit	Refrigerant (GWP)			R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Pre-charge quantity (tons CO2)		kg (t)	1.55 (1.046)	1.55 (1.046)	1.65 (1.114)	1.65 (1.114)
	Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø15.88(5/8")		ø9.52(3/8") - ø15.88(5/8")	
	Max./Min. splitting length		m	30/2	30/2	30/2	30/2
	Max height difference O.U.-I.U./I.U.-O.U.		m	20/15	20/15	20/15	20/15
	Splitting length without additional load		m	15	15	15	15
	Additional load		g/m	20	20	38	38
Compressor	Type			Twin Rotary - DC Inverter	Twin Rotary - DC Inverter	Twin Rotary - DC Inverter	Twin Rotary - DC Inverter
Sound pressure level at 1 m (maximum value detected in tests)			dB(A)	46.5	49.5	49.3	52.4
Sound power level (maximum value detected in tests)			dB(A)	61	62	63	65
Fan air flow			m^3/h	3300	3300	5000	5000
Dimensions		LxDxH	mm	960x380x860	960x380x860	1075x395x965	1075x395x965
Net		Weight	kg	57	57	67	67
Indoor unit model				HHNMS 4-6 Z		HHNMS 8-10 Z	
Operating limits	Delivery water temperature	Heating	°C	25~60		25~60	
		Cooling		7~30		7~30	
		DHW		40~60		40~60	
Electrical data	Power supply		Ph/V/Hz	1ph-220~240V-50Hz		1ph-220~240V-50Hz	
	Electrical integration		kW	Not present		Not present	
	Maximum current		A	0.40		0.40	
	Power cable		type	3x1.5 mm²		3x1.5 mm²	
Expansion tank	Volume		L	5		5	
	Pre-load		bar	1.5		1.5	
Circulation pump	Flow rate		L/h	600~1250		600~2100	
	Max static pressure		m	8.5		8.5	
Water/freon exchanger			type	Plate heat exchanger		Plate heat exchanger	
Maximum operating pressure			bar	3.0		3.0	
Hydraulic connections	Water inlet/outlet		Inches	ø1" BSP		ø1" BSP	
Sound power level			dB(A)	43		43	
Dimensions		LxDxH	mm	400x427x850		400x427x850	
Net		Weight	kg	47		47	
Wired control	Standard (included)			DHWZ CEM-Z	DHWZ CEM-Z	DHWZ CEM-Z	DHWZ CEM-Z

NOTE: The data contained above refer to the following standards: EN14511:2013; EN14825:2013; EN50564:2011; EN12102:2011; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

HOT WATER

Water heater with heat pump

200/300/500 litre "Ducted" monobloc series

No integration with solar thermal

GAS R134A

EN 16147 certification from an TUV Sud accredited.

up to 500LT capacity

Stainless steel tank

Anti-legionella cycle

ErP Ready

HWMBS 2201 A
HWMBS 2301 A
HWMBS 4501 A

Water heater with heat pump, monobloc on base.

R134A | Refrigerant gas.

Stainless steel tank.

60° C | Hot water with the compressor only.

COP 2.64* | For 200 litre model.

COP 2.69* | For 300 litre model.

COP 2.66* | For 500 litre model.

Anti-legionella cycle | Can be customized for different needs or can be excluded.

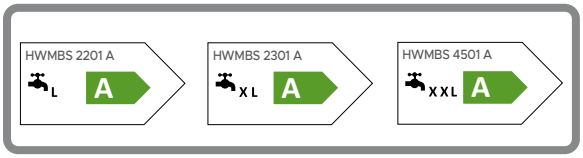
Innovative soft touch control panel to facilitate commissioning, use and maintenance

* In accordance with EN 16147

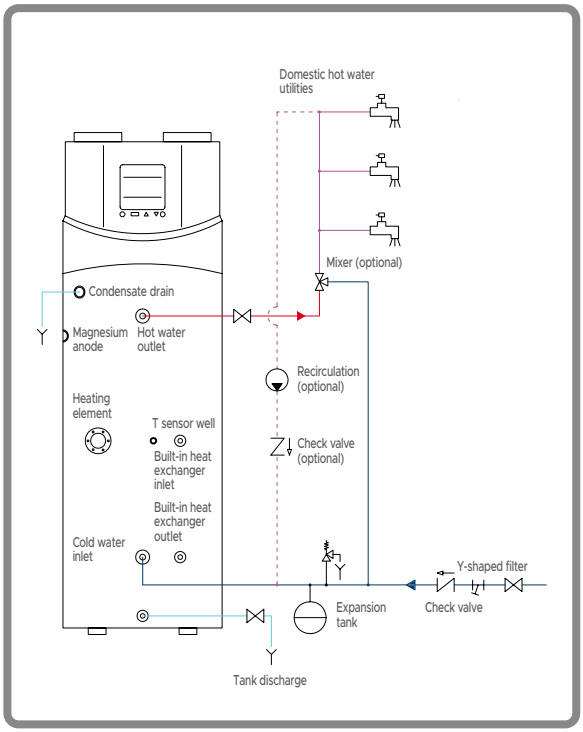
Model			HWMBS 2201 A	HWMBS 2301 A	HWMBS 4501 A
Tank volume		L	200	300	500
Solar integration coil (stainless steel)		m²	not present	not present	not present
Rated thermal power[1]		W	2020	2020	3800
Rated power consumption[1]		W	486	486	945
Rated hot water production capacity[1]		L/h	43.2	43.2	81.7
COP (rated)[1]		W/W	4.16	4.16	4.02
COP_{DHW}[2]		W/W	2.64	2.69	2.66
Test cycle profile[2]		-	L	XL	XXL
Volume of hot water at 40°C[2]		L	251	380	594
Energy Efficiency Class[3]		-	A	A	A
IP Degree of protection			IPX1	IPX1	IPX1
Hot water T. adjustment interval		°C	10~70 (50 default)	10~70 (50 default)	10~70 (50 default)
Maximum DHW temperature only compressor		°C	60	60	60
Electrical data	Power	Ph-V-Hz	1-220~240V-50Hz		
	Integrative heating element	W	1500		
	Maximum current (including heating element)	A	10.00	10.00	13.00
Refrigerant	Type (GWP)	-	R134a (1430)	R134a (1430)	R134a (1430)
	Quantity	kg	0.8	0.8	1.6
	Tons of CO2 equivalent	t	1.144	1.144	2.280
Compressor		-	Rotary ON/OFF		
Dimensions	Unit ø x H	mm	560 x 1755	640 x 1850	700 x 2230
	Net weight	kg	90	100	117
Sound power level		dB(A)	55	56	59
Sound pressure level at 2 m		dB(A)	46	46	48
Tank	Tank material	-	Stainless steel 304		
	DHW hydraulic connections	(" - DN)	1" - DN25	1" - DN25	1" - DN25
	Hydraulic solar coil connections	(" - DN)	-	-	-
	Titanium anode with alarm led	-	G3/4" - ø3x420	G3/4" - ø3x420	G3/4" - ø3x480
	Maximum operating pressure	bar	10	10	10
Suctioned air	Operating range	°C	-5~+43		
	Rated flow (not ducted)	m³/h	400	400	800
	Air flow (ducted)	Pa	60	60	60
	Air duct - Diameter	mm	177	177	177
	Air duct - Length	m	6	6	6

1. Conditions: suctioned air 20° C DB (15° C WB). Inlet water 15° C / outlet 55° C. 2 Test according to EN16147; aria 7° C. 3 Directive 2009/125/ CE - ERP EU n. 814/2013 (TUV Sud certification for all models). 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 1430. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 1430 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

ENERGY EFFICIENCY CLASS



HYDRAULIC CONNECTIONS DIAGRAM



HOT WATER

Water heater with heat pump

200/300/500 litre "Ducted" monobloc series

Possibility of integration with solar thermal

GAS R134A

EN 16147 certification from an TUV Sud accredited.

up to 500LT capacity

Stainless steel tank

Anti-legionella cycle

ErP Ready

HWMBS 2201 HEA
HWMBS 2301 HEA
HWMBS 4501 HEA

Water heater with heat pump, monobloc on base with the possibility of integration with solar thermal

R134A | Refrigerant gas.

Stainless steel tank.

60° C | Hot water with the compressor only.

COP 2.61* | For 200 litre model.

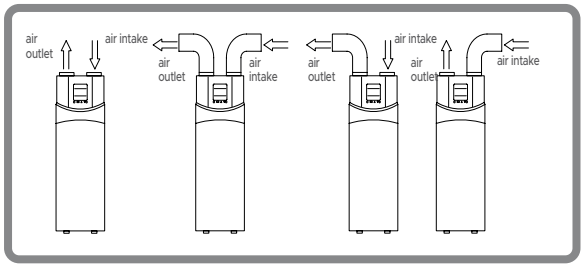
COP 2.68* | For 300 litre model.

COP 2.66* | For 500 litre model.

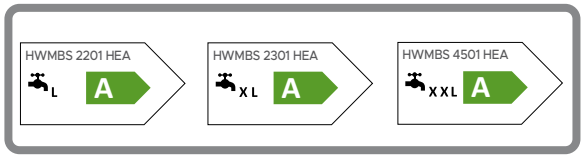
Anti-legionella cycle | Can be customized for different needs or can be excluded.

Innovative soft touch control panel to facilitate commissioning, use and maintenance

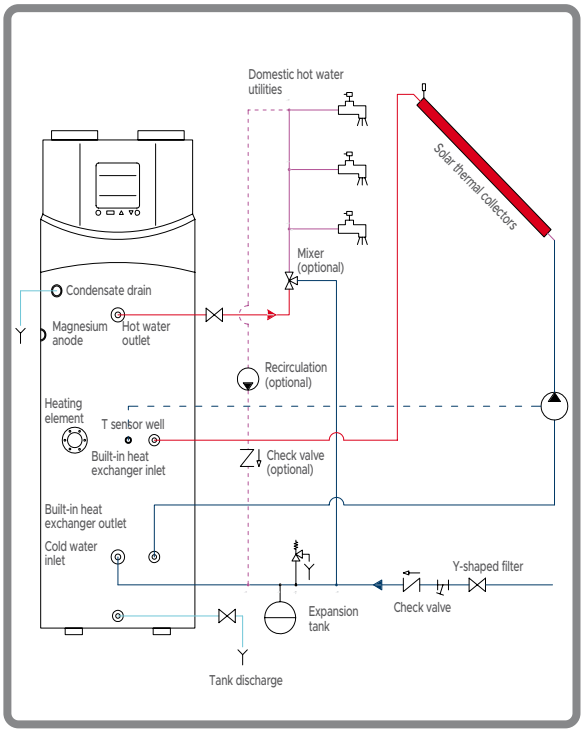
* In accordance with EN 16147



ENERGY EFFICIENCY CLASS



HYDRAULIC CONNECTIONS DIAGRAM



Model			HWMBS 2201 HEA	HWMBS 2301 HEA	HWMBS 4501 HEA
Tank volume		L	200	300	500
Solar integration coil (stainless steel)		m²	1.0	1.0	1.0
Rated thermal power[1]		W	2040	2040	3800
Rated power consumption[1]		W	465	460	945
Rated hot water production capacity[1]		L/h	43.5	43.5	82.0
COP (rated)[1]		W/W	4.39	4.43	4.02
COP_{DHW}[2]		W/W	2.61	2.68	2.66
Test cycle profile[2]		-	L	XL	XXL
Volume of hot water at 40°C[2]		L	250	390	594
Energy Efficiency Class[3]		-	A	A	A
IP Degree of protection			IPX1	IPX1	IPX1
Hot water T. adjustment interval		°C	10~70 (50 default)	10~70 (50 default)	10~70 (50 default)
Maximum DHW temperature only compressor		°C	60	60	60
Electrical data	Power	Ph-V-Hz	1-220~240V-50Hz		
	Integrative heating element	W	1500		
	Maximum current (including heating element)	A	10.00	10.00	13.00
Refrigerant	Type (GWP)	-	R134a (1430)	R134a (1430)	R134a (1430)
	Quantity	kg	1	1	1.6
	Tons of CO2 equivalent	t	1.430	1.430	2.280
Compressor		-	Rotary ON/OFF		
Dimensions	Unit ø x H	mm	560 x 1755	640 x 1850	700 x 2230
	Net weight	kg	95	105	122
Sound power level		dB(A)	58.2	58.2	59.2
Sound pressure level at 2 m		dB(A)	37.8	37.8	37.2
Tank	Tank material	-	Stainless steel 304		
	DHW hydraulic connections	(" - DN)	1" - DN25	1" - DN25	1" - DN25
	Hydraulic solar coil connections	(" - DN)	3/4" - DN20	3/4" - DN20	3/4" - DN20
	Titanium anode with alarm led	-	G3/4" - ø3x420	G3/4" - ø3x420	G3/4" - ø3x480
	Maximum operating pressure	bar	10	10	10
Suctioned air	Operating range	°C	-5~+43		
	Rated flow (not ducted)	m³/h	400	400	800
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