



HEATING



HEATING, THE RANGE THAT MEETS ALL NEEDS

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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.

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

HONDO MONOBLOC R32

78

Air-water heat pump

HOT WATER

84


Water heater with heat pump

HONDO

R32 MONOBLOC AIR-TO-WATER HEAT PUMP

Hondo is Hokkaido's new monoblock air/water heat pump incorporating a high-tech Full DC Inverter with an integrated hydronic module.

The monoblock heat pump Hondo has been designed for both residential and commercial use and is ideal for winter heating, summer cooling and domestic hot water production.



HOT WATER UP TO 65°C WITHOUT SUPPLEMENTS

Additionally, Hondo can be used to produce domestic hot water, reaching a maximum temperature of 65°C, one of the highest in the industry.



FOR RENOVATIONS AND NEW BUILDINGS

Hondo provides a reliable and cost-effective heating, cooling, and ACS production solution for small apartment buildings, single family homes, and flats.

EFFICIENT AND QUIET

As a result of the latest generation of Full DC Inverter technology, you will benefit from the highest level of performance and energy savings. Equipped with intelligent management to enable comfortable and healthy conditions for users at all times.

CLIMATE CURVE

Based on the external temperature, automatically adjusts the water delivery temperature as well as the room temperature.

Climate zones for the heating system

Outdoor design temp.	Maximum delivery temp.	Climate zones
+10°C	65°C	WARMER
+5°C	62°C	
+2°C	60°C	
0°	59°C	AVERAGE
-5°C	56°C	
-10°C	53°C	
-15°C	50°C	
-20°C	47°C	COLDER
-25°C	44°C	

HEATING

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HONDO MONOBLOC R32

OUTDOOR UNITS



Single phase 5.00~6.00 kW
HCWNGS 401 - 601 Z



Single phase 8.20~15.70 kW
HCWNGS 801 - 1001 - 1201 - 1401 - 1601 Z
Three-phase 10.20~15.70 kW
HCWSGS 1001 - 1201 - 1401 - 1601 Z



WiFi
included



Management via
EWPE Smart App

TOP PERFORMANCE IN ALL SEASONS

Guaranteed heating performance up to -25°C outside temperature. The Hondo heat pump can be installed in any climatic zone, even in those with the most severe conditions. During the summer, it can provide cooling to temperatures up to 48°C outside.

-15°/+48°C

Outside temperature
in cooling

-25°/+35°C

Outside temperature in
heating

-25°/+45°C

DHW production outside
temperature

PRODUCT PLUSES



**Aluminium fins
with anti-corrosion
coating**

It guarantees
greater resistance
to salt corrosion.



Emergency Mode

Auxiliary electrical
resistors are
activated in
the event of a
malfunction of the
heat pump.



**Connection with other
heat sources**

The outdoor heat source
will be activated if the
outdoor temperature
falls below the set-point
temperature.



Timer

Weekly up to
3 programs.



Silent mode

Silent mode operation.



Anti-legionella cycles

Activation of the
anti-legionella function.

HONDO MONOBLOC R32

A+++

In heating mode with 35°C delivery water temperature.

A++

In heating mode with 55°C delivery water temperature.



PERFORMANCE

	MODEL	COP	EER
Single phase	HCWNGS 401 Z	5.40	5.20
	HCWNGS 601 Z	5.40	5.10
	HCWNGS 801 Z	5.32	5.32
	HCWNGS 1001 Z	5.05	5.10
	HCWNGS 1201 Z	4.94	4.90
	HCWNGS 1401 Z	4.75	4.57
	HCWNGS 1601 Z	4.55	4.31
Three-phase	HCWSGS 1001 Z	4.95	4.79
	HCWSGS 1201 Z	4.82	4.60
	HCWSGS 1401 Z	4.60	4.19
	HCWSGS 1601 Z	4.40	3.80

HEATING

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HONDO MONOBLOC R32



Single phase 5.00~6.00 kW

HCWNGS 401 Z

Single phase 8.20 kW

HCWNGS 801 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				HCWNGS 401 Z		HCWNGS 601 Z		HCWNGS 801 Z	
Heating	Rated power	A7//W35	kW	5.00		6.00		8.20	
	Electrical absorption			0.93		1.11		1.54	
	Performance coefficient			5.40		5.40		5.32	
	Rated power	A7/W45	kW	4.90		6.80		8.30	
	Electrical absorption			1.17		1.66		1.90	
	Performance coefficient			4.20		4.10		4.36	
Cooling	Rated power	A35//W18	kW	5.00		6.50		8.30	
	Electrical absorption			0.96		1.27		1.56	
	Performance coefficient			5.20		5.10		5.32	
	Rated power	A35//W5	kW	4.90		5.70		7.40	
	Electrical absorption			1.40		1.75		2.00	
	Performance coefficient			3.50		3.25		3.70	
Seasonal heating data	Theoretical load (Pdesignh) @-10°C	35/55	kW	5/5		6/5		8/9	
	Seasonal energy efficiency (ηs)		192/137		199/137		177/145		
	Energy efficiency class		A+++/A+++						
	Annual energy consumption		kWh/a	2306/2882		2386/2882		3827/5206	
Operating limits	Outside air temperature	Heating	°C	-25~35					
		Cooling		-15~48					
		DHW		-25~45					
	Delivery water temperature	Heating	°C	20~65					
Cooling		5~25							
Refrigerant circuit data	Refrigerant ¹		Type (GWP)	R32 (675)					
	Quantity (tons CO2)		kg (t)	0.95 (0.641)				1.6 (1.080)	
	Control system			Electronic expansion valve					
	Compressor		Type	Rotary - DC Inverter					
Hydraulic data	Heat exchanger	Type		Brazed stainless steel plates					
	Circulation pump	Air flow	m³/h	0.9		1.0		1.4	
		Brand		Shinhoo					
	Water connections	Prevalence ²	kPa	79		78		63	
		Type		Threaded					
	Min/Max. operating pressure	Dimensions	Inches	1" F BSP					
				0.5/2.5					
Electrical data	Surge tank	Volume	L	2					
	Power supply	Pre-load	bar	1					
			Ph/V/Hz	1ph-230V-50Hz					
		Maximum current	Heating	A	11		11		23
		Cooling	8		8		12		
	Power cable (recommended)		Type	3x2.5 mm²				3x6 mm²	
Product specifications	Fan	Type	qty	DC Inverter					
	Sound power level	Air flow	m³/h	3200				5800	
			dB(A)	58				68	
	Sound pressure level	Heating	dB(A)	58				62	
		Cooling		56				60	
	Dimensions	LxDxH	mm	1150x372x733				1206x445x878	
	Weight	Net	kg	90				120	
	Control (included)			Wire remote control					

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.

- 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 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 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.
- Values net of pressure losses of the exchanger.

HEATING

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HONDO MONOBLOC R32



Single phase 10.20~15.70 kW
HCWNGS 1001 Z 1201 Z 1401 Z 1601 Z

Three-phase 10.20~15.70 kW
HCWSGS 1001 Z 1201 Z 1401 Z 1601 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			HCWNGS 1001 Z HCWNGS 1201 Z HCWNGS 1401 Z HCWNGS 1601 Z HCWSGS 1001 Z HCWSGS 1201 Z HCWSGS 1401 Z HCWSGS 1601 Z									
Heating	Rated power	A7//W35	kW	10.20	12.00	14.20	15.70	10.20	12.00	14.20	15.70	
	Electrical absorption			2.02	2.43	2.99	3.45	2.06	2.49	3.09	3.57	
	Performance coefficient		COP	5.05	4.94	4.75	4.55	4.95	4.82	4.60	4.40	
	Rated power	A7//W45	kW	10.20	13.00	14.20	16.20	10.20	13.00	14.20	16.20	
	Electrical absorption			2.50	2.45	3.00	3.60	2.13	2.61	3.32	4.05	
	Performance coefficient		COP	4.08	5.31	4.73	4.50	4.79	4.98	4.28	4.00	
Cooling	Rated power	A35//W18	kW	10.20	12.00	13.70	15.50	10.20	12.00	13.90	15.40	
	Electrical absorption			2.00	2.45	3.00	3.60	2.13	2.61	3.32	4.05	
	Performance coefficient		EER	5.10	4.90	4.57	4.31	4.79	4.60	4.19	3.80	
	Rated power	A35//W5	kW	9.00	11.10	13.30	13.80	9.10	11.10	13.30	13.80	
	Electrical absorption			2.65	3.58	4.75	5.09	2.80	3.58	4.75	5.09	
	Performance coefficient		EER	3.40	3.10	2.80	2.71	3.25	3.10	2.80	2.71	
Seasonal heating data	Theoretical load (Pdesignh) @-10℃	35/55	kW	9/10	12/12	13/13	14/14	9/10	12/12	13/13	13/14	
	Seasonal energy efficiency (ηs)		%	176/135	188/144	185/145	184/145	189/140	180/137	179/138	179/138	
	Energy efficiency class		-	A+++/A++								
	Annual energy consumption		kWh/a	4163/6076	5194/6606	5682/7456	6072/7768	4069/5907	5517/6990	5927/7769	5927/8014	
Operating limits	Outside air temperature	Heating	℃	-25~35								
		Cooling		-15~48								
		DHW		-25~45								
	Delivery water temperature	Heating	℃	20~65								
	Cooling	℃	5~25									
Refrigerant circuit data	Refrigerant ¹	Type (GWP)	R32 (675)									
	Quantity (tons CO2)	kg (t)	1.6 (1.080)	2.2 (1.485)				1.6 (1.080)	2.2 (1.485)			
	Control system		Electronic expansion valve									
	Compressor	Type	Rotary - DC Inverter									
Hydraulic data	Heat exchanger	Type	Brazed stainless steel plates									
		Air flow	m³/h	1.8	2.1	2.4	2.7	1.8	2.1	2.4	2.7	
	Circulation pump	Brand	Shinhoo									
		Prevalence ²	kPa	49	46	32	23	49	46	34	23	
	Water connections	Type	Threaded									
		Dimensions	Inches	1" F BSP								
	Min/Max. operating pressure		bar	0.5/2.5								
	Surge tank	Volume	L	2	3			3				
	Pre-load	bar	1	1			1					
Electrical data	Power supply	Ph/V/Hz	1ph-230V-50Hz				3ph-400V-50Hz					
	Maximum current	Heating	A	25	30	30	30	9	11.5	12	12.5	
	Cooling	12		17	21	23	7	5	8	8.5		
	Power cable (recommended)		Type	3x6 mm²				5x2.5 mm²				
Product specifications	Fan	Type	qty	DC Inverter								
		Air flow	m³/h	5800	5015			5800	5015			
	Sound power level		dB(A)	68	68			68	68			
	Sound pressure level	Heating	dB(A)	62	54	55	56	60	54	55	56	
	Cooling	60		55	57	59	57	55	57	59		
	Dimensions	LxDxH	mm	1206x445x878				1206x445x878				
	Weight	Net	kg	120	138			134	144			
	Control (included)			Wire remote control								

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.

- 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 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 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.
- Values net of pressure losses of the exchanger.

HEATING

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HOT WATER

HWMB5 8080-D A

Monobloc heat pump water heater 80 liters
“Ducted kitchen” series



Water heater in a monoblock heat pump, designed to be installed inside the kitchen column cabinet

R134A | Refrigerant gas

60° C | Hot water with the compressor only

Anti-legionella cycle

Outstanding corrosion resistance thanks to

Duplex technology

ErP Ready



PERFORMANCE

MODEL	LOAD	ENERGY CLASS	COP In accordance with EN 16147
HWMB5 8080-D A	80 L	A++	4.20

Model		HWMB5 8080-D A	
Tank volume	L	80	
Solar integration coil (stainless steel)	m ²	Not present	
Rated thermal power ¹	W	1050	
Rated power consumption ¹	W	250	
Rated hot water production capacity ¹	L/h	20	
COP (rated) ¹	W/W	4.2	
COP _{DHW} ²	W/W	3.04	
Test cycle profile ²	-	M	
Warm-up time ²	hh:mm	03:42	
Volume of hot water at 40°C ²	L	116	
Energy Efficiency Class ³	-	A++	
IP Degree of protection	-	IPX1	
Hot water T. adjustment interval	°C	38~70 (50 default)	
Maximum DHW temperature only compressor	°C	60	
Electrical data	Power	Ph-V-Hz	1-220~240V-50Hz
	Integrative heating element	W	1500
	Maximum current (including heating element)	A	8.30
Refrigerant circuit data	Refrigerant ⁴	Type (GWP)	R134a (1430)
	Quantity	kg	0.65
	Tons of CO2 equivalent	t	0.930
	Compressor	Type	Rotary ON/OFF
Product specifications	Dimensions (Diameter x Height)	mm	520 x 1160
	Net weight	kg	50
	Sound power level	dB(A)	46
	Sound pressure level at 2 m	dB(A)	31
Tank	Tank material	-	Duplex steel
	DHW connections	Inches	G1/2" (DN15)
	Solar coil connections	Inches	-
	Anode Type	-	Not present
	Maximum operating pressure	bar	10
Suctioned air	Operating range	°C	-5~+43
	Rated flow (not ducted)	m ³ /h	300
	Air flow (ducted)	Pa	60
	Air duct - Diameter	mm	120
	Air duct - Length	m	8

1. Conditions: intake air 20°C DB (15°C WB), inlet water 15°C / outlet 55°C. 2. Test according to EN16147; air 20° C.

3. Directive 2009/125/EC - EU ERP no. 814/2013 (TUV South Certification). 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.

HEATING

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SAFETY

The tank is made of Duplex, a variety of extremely strong and corrosion-resistant stainless steel.

Legionella prevention system: periodic cycles that raise the temperature of the water inside the accumulation beyond 65° C prevent the growth of legionella bacteria.

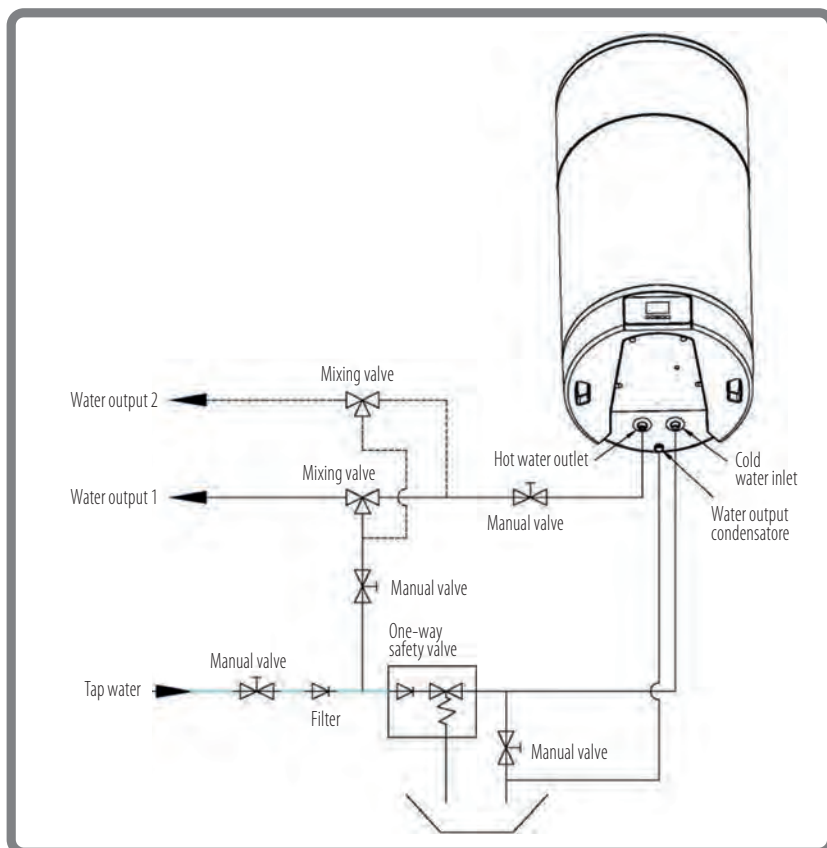
COMFORT AT HOME

Designed to be installed in the kitchen, the "Ducted Kitchen" series sits comfortably inside the kitchen furniture, equipped with an air ejection system.

INSTALLATION INSTRUCTIONS

1. It is mandatory to install a safety and non-return valve on the cold water inlet. Otherwise you could seriously damage the equipment. Use a valve with calibration 0.7 MPa. For the installation site, refer to the piping connection diagram.
2. Ensure that the exhaust pipe of the safety valve descends vertically and is not placed in an environment that is susceptible to freezing.
3. The water must be able to drain freely from the pipe and its terminal part must have no obstructions.
4. In order to ensure that the safety valve is functioning correctly, it must be tested regularly and limestone that could block it must be removed.

HYDRAULIC CONNECTIONS DIAGRAM



Note: Solar heat exchange coil is optional.

HEATING

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HOT WATER

HWMB5 2201 A | HWMB5 2301 A | HWMB5 4501 A

Water heater with heat pump, monobloc
200/300/500 liters “Ducted” series



No integration with solar thermal

Water heater with heat pump, monobloc on base

R134A | Refrigerant gas

Stainless steel tank

60° C | Hot water with the compressor only

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

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

ErP Ready

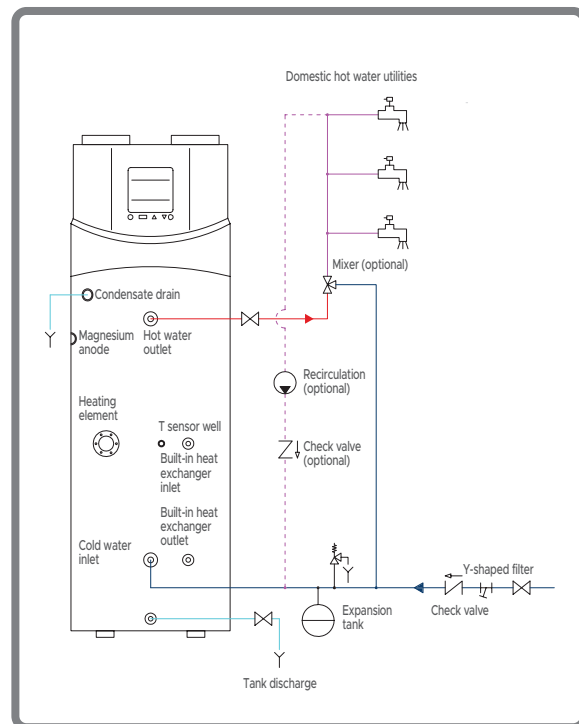


PERFORMANCE

MODEL	LOAD	ENERGY CLASS	COP In accordance with EN 16147
HWMB5 2201 A	200 L	A	2.64
HWMB5 2301 A	300 L	A	2.69
HWMB5 4501 A	500 L	A	2.66

Model		HWMB5 2201 A	HWMB5 2301 A	HWMB5 4501 A
Tank volume	L	200	300	500
Solar integration coil (stainless steel)	m ²	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 10.0		
Refrigerant circuit data	Refrigerant ⁴	Type (GWP)	R134a (1430)	R134a (1430)
	Quantity	kg	0.80	0.80
	Tons of CO ₂ equivalent	t	1.144	1.144
	Compressor	Type	Rotary ON/OFF	
Product specifications	Dimensions (Diameter x Height)	mm	560 x 1755	640 x 1850
	Net weight	kg	90	100
	Sound power level	dB(A)	55	56
	Sound pressure level at 2 m	dB(A)	46	46
Tank	Tank material	-	Acciaio INOX 304	
	DHW connections	Inches	G1" (DN25)	G1" (DN25)
	Solar coil connections	Inches	-	-
	Anode Type	-	Titanium electrode with alarm LED	
	Maximum operating pressure	bar	10	10
	Operating range	°C	-5~+43	
Suctioned air	Rated flow (not ducted)	m ³ /h	400	400
	Air flow (ducted)	Pa	60	60
	Air duct - Diameter	mm	177	177
	Air duct - Length	m	6	6

HYDRAULIC CONNECTIONS DIAGRAM



1. Conditions: intake air 20°C DB (15°C WB), inlet water 15°C / outlet 55°C. 2. Test according to EN16147; air 15°C for 200 and 300L models; air 7°C for 500L model. 3. Directive 2009/125/EC - EU ERP no. 814/2013 (TUV South 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.

HEATING

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HOT WATER

HWMB5 2201 HEA | HWMB5 2301 HEA | HWMB5 4501 HEA

Water heater with heat pump, monobloc
200/300/500 liters "Ducted" series



Possibility of integration with solar thermal

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

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

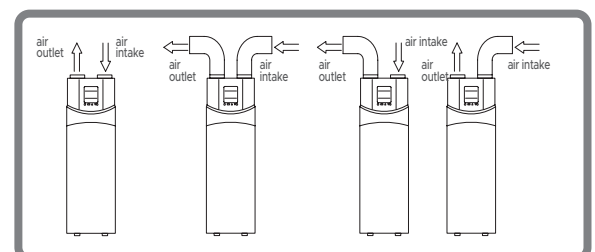
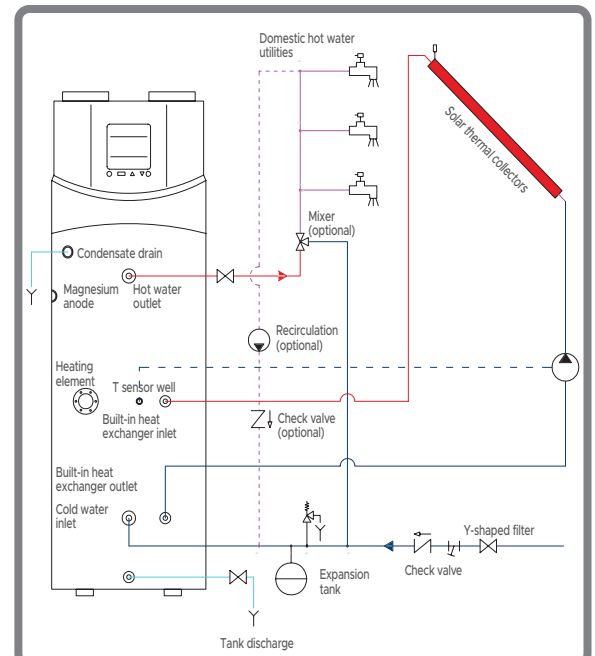


PERFORMANCE

MODEL	LOAD	ENERGY CLASS	COP In accordance with EN 16147
HWMB5 2201 HEA	200 L	A	2.61
HWMB5 2301 HEA	300 L	A	2.68
HWMB5 4501 HEA	500 L	A	2.66

Model		HWMB5 2201 HEA	HWMB5 2301 HEA	HWMB5 4501 HEA
Tank volume	L	200	300	500
Solar integration coil (stainless steel)	m ²	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	Ph-V-Hz	1-220~240V-50Hz		
	Integrative heating element	1500		
	Maximum current (including heating element)	A	10.0	13.0
Refrigerant circuit data	Refrigerant ⁴	Type (GWP)	R134a (1430)	R134a (1430)
	Quantity	kg	1.0	1.6
	Tons of CO ₂ equivalent	t	1.430	2.280
	Compressor	Type	Rotary ON/OFF	
Product specifications	Dimensions (Diameter x Height)	mm	560 x 1755	640 x 1850
	Net weight	kg	95	105
	Sound power level	dB(A)	58.2	59.2
	Sound pressure level at 2 m	dB(A)	37.8	37.2
Tank	Tank material	-	Stainless steel 304	
	DHW connections	Inches	G1" (DN25)	G1" (DN25)
	Solar coil connections	Inches	G3/4" (DN20)	G3/4" (DN20)
	Anode Type	-	Titanium electrode with alarm LED	
	Maximum operating pressure	bar	10	10
Suctioned air	Operating range	°C	-5~+43	
	Rated flow (not ducted)	m ³ /h	400	800
	Air flow (ducted)	Pa	60	60
	Air duct - Diameter	mm	177	177
	Air duct - Length	m	6	6

HYDRAULIC CONNECTIONS DIAGRAM



1. Conditions: intake air 20°C DB (15°C WB), inlet water 15°C / outlet 55°C. 2. Test according to EN16147; air 7°C. 3. Directive 2009/125/EC - EU ERP no. 814/2013 (TUV South 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.