



HEATING



HEATING. THE RANGE THAT SATISFIES EVERY NEED

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The careful process of product selection and system design is developed in Italy and then found realization, thanks to continuous technological research, in an exclusive range, a point of reference on the hydronic pump market.

HEATING selects and collects excellent products for heating, air conditioning and DHW production in the residential and commercial sectors.

72 HONDO MONOBLOC R32

Air-to-water heat pump

78 HOT WATER

Heat pump water heater

HONDO

AIR-TO-WATER HEAT PUMP MONOBLOC R32

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

The Hondo monobloc heat pump was designed for residential and commercial applications and is designed for winter heating, summer cooling and domestic hot water production.



HOT WATER UP TO 65°C WITHOUT SUPPLEMENTS

Hondo can also be used for the production of domestic hot water. The maximum temperature the fluid can reach is 65°C, one of the highest values in the category.



FOR RENOVATIONS AND NEW BUILDINGS

Hondo is the reliable and advantageous solution for heating, cooling and producing DHW in micro-condominiums, single homes and apartments.

EFFICIENT AND QUIET

The latest generation Full DC Inverter technology guarantees first-class performance and energy savings. Equipped with intelligent management capable of always allowing comfortable and healthy conditions for users in the environment.

CLIMATE CURVE

Automatically adjusts the water delivery temperature and the room temperature based on the outdoor temperature.

Project climate bands for heating

Outdoor temp. of project	Max delivery temp.	Climatic bands
+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	COLDER
-20°C	47°C	
-25°C	44°C	

HEATING

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HONDO MONOBLOC R32

OUTDOOR UNITS



1-Phase 5.00~6.00 kW
HCWNGS 401 - 601 Z



1-Phase 8.20~15.70 kW
HCWNGS 801 - 1001 - 1201 - 1401 - 1601 Z
3-Phase 10.20~15.70 kW
HCWSGS 1001 - 1201 - 1401 - 1601 Z



Built-in
WIFI



Management via
EWPE Smart app



**DMC-HP-Z
CONTROL**

Group control,
connect up to four
Hondo units

TOP PERFORMANCE IN ALL SEASONS

Heating performance guaranteed up to -25°C outdoor temperature. The Hondo heat pump can be installed in any climate zone, even in those with the most severe conditions. In summer, cooling provided up to 48°C outdoor temperature.

$-15^{\circ}/+48^{\circ}\text{C}$

Outdoor temperature in
cooling

$-25^{\circ}/+35^{\circ}\text{C}$

Outdoor temperature in
heating

$-25^{\circ}/+45^{\circ}\text{C}$

Outdoor temperature in
DHW production

PRODUCT PLUS



**Aluminum fins
with anti-corrosion
coating**

It guarantees
greater resistance
to salt corrosion.



Emergency mode

In the event of a
malfunction of
the heat pump,
the auxiliary
electric heaters are
activated.



**Connection with other
heat sources**

If the outdoor
temperature is lower
than the set-point, the
external heat source will
come into operation.



Timer

Weekly Timer up
to 3 programs.



Silent mode

Operation in *Silent*
mode.



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
1-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
3-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



1-Phase 5.00~6.00 kW
HCWNGS 401 - 601 Z

1-Phase 8.20 kW
HCWNGS 801 Z

**ENERGY
CLASS**

A+++

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

**ENERGY
CLASS**

A++

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

Model				HCWNGS 401 Z		HCWNGS 601 Z		HCWNGS 801 Z	
Heating	Rated capacity	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 capacity	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 capacity	A35//W18	kW	5.00		6.50		8.30	
	Electrical absorption			0.96		1.27		1.56	
	Energy efficiency			5.20		5.10		5.32	
	Rated capacity	A35//W5	kW	4.90		5.70		7.40	
	Electrical absorption			1.40		1.75		2.00	
	Energy efficiency			3.50		3.25		3.70	
Seasonal heating data	Theoretical load (Pdesignh) @ -10℃	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/y	2306/2882		2386/2882		3827/5206	
Operation range	Outdoor 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)	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					
		Air flow	m³/h	0.9		1.0		1.4	
	Circulation pump	Brand		Shinhoo					
		Static pressure ²	kPa	79		78		63	
	Water connections	Type		Threaded					
		Dimension	Inches	1" F BSP					
	Min/Max operating pressure		bar	0.5/2.5					
Expansion vessel	Volume	L	2						
	Pre-load	bar	1						
Electrical data	Power supply		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					
		Air flow aria	m³/h	3200				5800	
	Sound power level		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)				Wired remote control					

The above data refer to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No811:2013; (EU)No813:2013; OJ 2014/C 207/02:2014.

1. 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 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.

2. Values net of pressure losses of the exchanger.

HEATING

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HONDO MONOBLOC R32



1-Phase 10.20~15.70 kW
HCWNGS 1001 - 1201 - 1401 - 1601 Z

3-Phase 10.20~15.70 kW
HCWSGS 1001 - 1201 - 1401 - 1601 Z

ENERGY CLASS

A+++

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

ENERGY 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 capacity	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 capacity	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 capacity	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	
	Energy efficiency		EER	5.10	4.90	4.57	4.31	4.79	4.60	4.19	3.80	
	Rated capacity	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	
	Energy efficiency		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/y	4163/6076	5194/6606	5682/7456	6072/7768	4069/5907	5517/6990	5927/7769	5927/8014	
Operation range	Outdoor 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	Shinwoo									
		Static pressure ²	kPa	49	46	32	23	49	46	34	23	
	Water connections	Type	Threaded									
		Dimension	Inches	1" F BSP								
	Min/Max operating pressure		bar	0.5/2.5								
	Expansion vessel	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 area	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)			Wired remote control								

The above data refer to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

1. 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 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.

2. 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 monobloc 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

Exceptional corrosion resistance thanks to

Duplex technology

ErP Ready



PERFORMANCE

MODEL	LOAD	ENERGY CLASS	COP According to 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	
Electrical absorption nominale ¹	W	250	
Rated hot water production capacity ¹	L/h	20	
COP (rated) ¹	W/W	4.2	
COPDHW ²	W/W	3.04	
Test cycle profile ²	-	M	
Warm-up time ²	hh:mm	03:42	
Volume of hot water at 40° ²	L	116	
Energy efficiency class ³	-	A++	
IP Degree of protection IP	-	IPX1	
Hot water T. adjustment interval	°C	38~70 (50 default)	
Maximum DHW temperature only compressor	°C	60	
Electrical data	Power supply	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 a 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
	Air flow (ducted)	m ³ /h	300
	Fan static pressure	Pa	60
	Air duct - Diameter	mm	120
	Air duct - Max 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/CE - ERP EU no. 814/2013. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerant 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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COMFORT AT HOME

Designed to be installed in the kitchen like a traditional boiler, the "Ducted Kitchen" series is positioned comfortably inside the kitchen column furniture, with air expulsion outside.

SAFETY

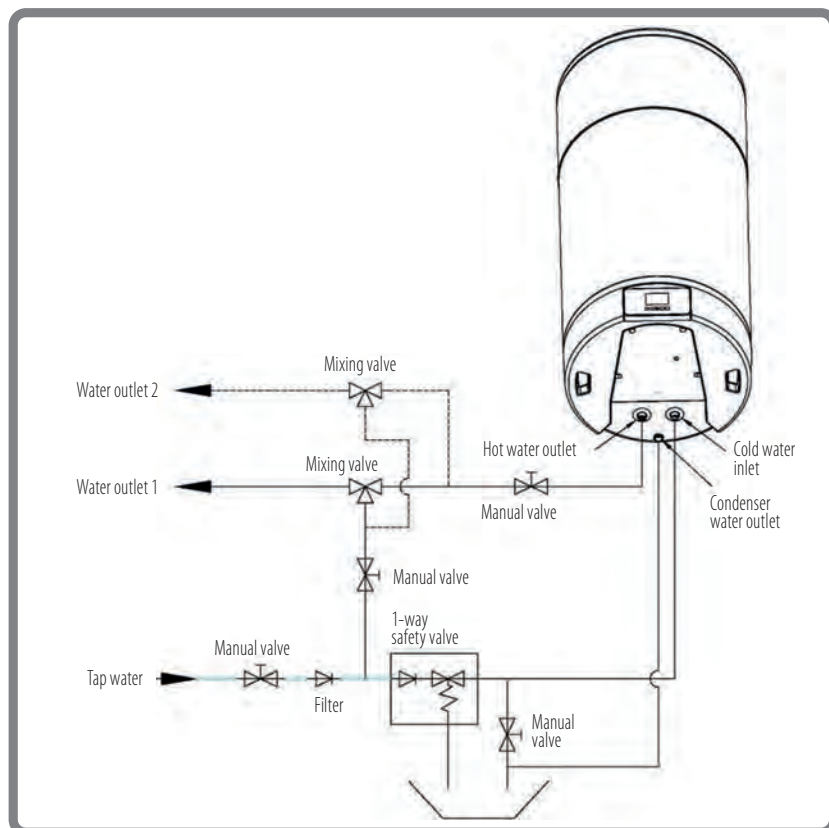
The tank is made of Duplex, a variety of extremely strong and corrosion-resistant stainless steel.

Anti-legionella system: the danger of legionella bacteria is averted thanks to periodic cycles that raise the temperature of the water inside the accumulation above 65° C.

INSTALLATION INSTRUCTIONS

1. It is mandatory to install a safety and non-return valve on the cold water inlet. Otherwise, the equipment could be seriously damaged. Use a valve with 0.7 MPa setting. For the installation location, refer to the piping connection diagram.
2. The safety valve drain pipe must descend vertically and must not be placed in an environment at risk of freezing.
3. The water must be able to drip freely from the hose and its end must be left free.
4. The safety valve must be tested regularly to verify its functioning and to remove limescale that could block it.

HYDRAULIC CONNECTIONS DIAGRAM



HEATING

HOT WATER

HWMB5 2201 A | HWMB5 2301 A | HWMB5 2401 A

Monobloc heat pump water heater
200/300/400 liters "Ducted" series



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 & maintenance

ErP Ready

**No integration
with solar thermal**



PERFORMANCE

MODEL	LOAD	ENERGY CLASS	COP According to EN 16147
HWMB5 2201 A	200 L	A	2.64
HWMB5 2301 A	300 L	A	2.69
HWMB5 2401 A	400 L	A	2.81

Model		HWMB5 2201 A	HWMB5 2301 A	HWMB5 2401 A
Tank volume	L	200	300	400
Solar integration coil (stainless steel)	m ²	not present	not present	not present
Rated thermal power ¹	W	2020	2020	2020
Electrical absorption nominale ¹	W	486	486	486
Rated hot water production capacity ¹	L/h	43.2	43.2	45
COP (rated) ¹	W/W	4.16	4.16	4.16
COPDHW ²	W/W	2.64	2.69	2.81
Test cycle profile ²	-	L	XL	XL
Volume of hot water at 40° ²	L	251	380	439
Energy efficiency class ³	-	A	A	A
IP Degree of protection IP	-	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 supply	Ph-V-Hz 1-220~240V-50Hz		
	Integrative heating element	1500		
	Max. current (including heating element)	10.0		
Refrigerant circuit data	Refrigerant ⁴	Type (GWP)	R134a (1430)	R134a (1430)
	Quantity	kg	0.80	0.80
	Tons of CO2 equivalent	t	1.144	1.144
	Compressor	type	Rotary ON/OFF	
Product specifications	Dimensions (Diameter x Height)	mm	560 x 1755	640 x 1850
	Peso Net	kg	90	100
	Sound power level	dB(A)	55	56
	Sound pressure level a 2 m	dB(A)	46	46
Tank	Tank material	-	Stainless steel 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	Air flow (ducted)	m ³ /h	400	450
	Fan static pressure	Pa	60	60
	Air duct - Diameter	mm	177	177
	Air duct - Max length	m	6	6

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, 300 and 400L models.

3. Directive 2009/125/CE - ERP EU no. 814/2013. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerant 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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COMFORT AT HOME

Programming to take advantage of any advantageous time slots on the electricity tariff and have hot water available when needed.

Two operating modes: maximum savings with the use of the compressor only or maximum speed with the simultaneous use of the heat pump and integrated electric resistance, to produce large quantities of DHW in a short time.

INSTALLATION INSTRUCTIONS

1. It is mandatory to install a safety and non-return valve on the cold water inlet. Otherwise, the equipment could be seriously damaged. Use a valve with 0.7 MPa setting. For the installation location, refer to the piping connection diagram.
2. The safety valve drain pipe must descend vertically and must not be placed in an environment at risk of freezing.
3. The water must be able to drip freely from the hose and its end must be left free.
4. The safety valve must be tested regularly to verify its functioning and to remove limescale that could block it.

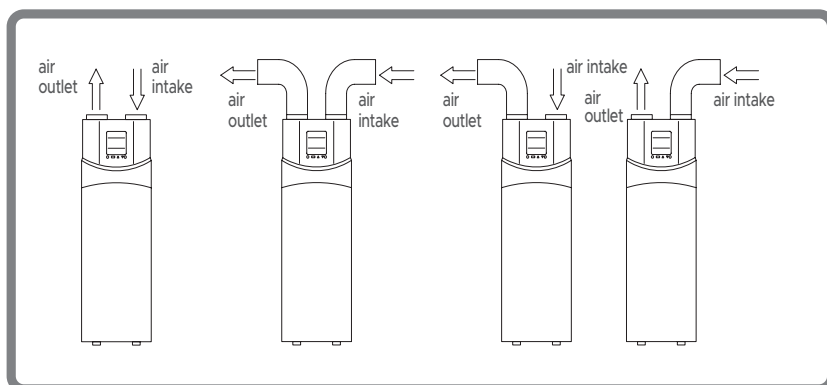
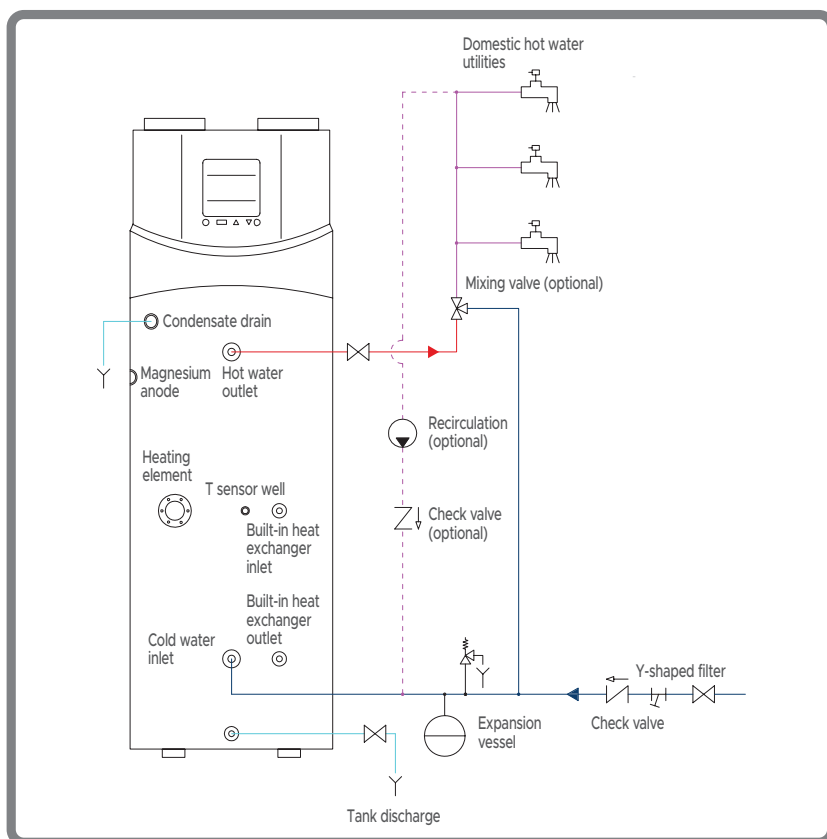
SAFETY

Since the heat exchanger is external to the tank, no contamination between water and refrigerant fluid is possible.

Anti-legionella system: the danger of legionella bacteria is averted thanks to periodic cycles that raise the temperature of the water inside the accumulation above 65° C.

The titanium anode protects the tank from the corrosive action of water in an inexhaustible way: it guarantees greater reliability and lower maintenance costs compared to a solution with a magnesium anode.

HYDRAULIC CONNECTIONS DIAGRAM



HEATING

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HOT WATER

HWMBBS 2201 HEA | HWMBBS 2301 HEA

HWMBBS 2401 HEA | HWMBBS 4401 HEA

Monobloc heat pump water heater
200/300/400 liters "Ducted" series

**GAS
R134A**

**200L
300L
400L**



**NEW 2024
HWMBBS 4401 HEA**

Water heater monobloc
on base with 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

**Possibility of
integration with
solar thermal**



PERFORMANCE

MODEL	LOAD	ENERGY CLASS	COP According to EN 16147
HWMBBS 2201 HEA	200 L	A	2.61
HWMBBS 2301 HEA	300 L	A	2.68
HWMBBS 2401 HEA	400L	A	2.61
HWMBBS 4401 HEA	400 L	A	2.62

NEW

Model		HWMBBS 2201 HEA		HWMBBS 2301 HEA		HWMBBS 2401 HEA		HWMBBS 4401 HEA *	
Tank volume		L	200	300		400		400	
Solar integration coil (stainless steel)		m ²	1.0	1.0		1.0		1.0	
Rated thermal power ¹		W	2040	2040		2060		3285	
Electrical absorption nominale ¹		W	465	460		477		895	
Rated hot water production capacity ¹		L/h	43.5	43.5		45.0		70.5	
COP (rated) ¹		W/W	4.39	4.43		4.32		3.67	
COPDHW ²		W/W	2.61	2.68		2.61		2.62	
Test cycle profile ²		-	L	XL		XL		XL	
Volume of hot water at 40° ²		L	250	390		434		434	
Energy efficiency class ³		-	A	A		A		A	
IP Degree of protection IP		-	IPX1	IPX1		IPX1		IPX1	
Hot water T. adjustment interval		°C	10~70 (50 default)	10~70 (50 default)		10~70 (50 default)		10~70 (50 default)	
Maximum DHW temperature only compressor		°C	60	60		60		60	
Electrical data	Power supply	Ph-V-Hz	1-220~240V-50Hz						
	Integrative heating element	W	1500						
	Max. current (including heating element)	A	10.0	10.0		10.0		13.0	
Refrigerant circuit data	Refrigerant ⁴	Type (GWP)	R134a (1430)	R134a (1430)		R134a (1430)		R134a (1430)	
	Quantity	kg	1.0	1.0		1.0		0.9	
	Tons of CO2 equivalent	t	1.430	1.430		1.430		1.287	
	Compressor	type	Rotary ON/OFF						
Product specifications	Dimensions (Diameter x Height)	mm	560 x 1755	640 x 1850		700 x 1880		700 x 1880	
	Peso Net	kg	95	105		115		118	
	Sound power level	dB(A)	58.2	58.2		58		59.2	
	Sound pressure level a 2 m	dB(A)	37.8	37.8		38		37.2	
Tank	Tank material	-	Stainless steel 304						
	DHW connections	Inches	G1" (DN25)	G1" (DN25)		G1" (DN25)		G1" (DN25)	
	Solar coil connections	Inches	G3/4" (DN20)	G3/4" (DN20)		G3/4" (DN20)		G3/4" (DN20)	
	Anode type	-	Titanium electrode with alarm LED						
	Maximum operating pressure	bar	10	10		10		10	
Suctioned air	Operating range	°C	-5~+43						
	Air flow (ducted)	m ³ /h	400	400		450		800	
	Fan static pressure	Pa	60	60		60		60	
	Air duct - Diameter	mm	177	177		177		177	
	Air duct - Max length	m	6	6		6		6	

* DRAFT: data subject to change without notice.

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/CE - ERP EU no. 814/2013. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerant 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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COMFORT AT HOME

Programming to take advantage of any advantageous time slots on the electricity tariff and have hot water available when needed.

Two operating modes: maximum savings with the use of the compressor only or maximum speed with the simultaneous use of the heat pump and integrated electric resistance, to produce large quantities of DHW in a short time.

INSTALLATION INSTRUCTIONS

1. It is mandatory to install a safety and non-return valve on the cold water inlet. Otherwise, the equipment could be seriously damaged. Use a valve with 0.7 MPa setting. For the installation location, refer to the piping connection diagram.
2. The safety valve drain pipe must descend vertically and must not be placed in an environment at risk of freezing.
3. The water must be able to drip freely from the hose and its end must be left free.
4. The safety valve must be tested regularly to verify its functioning and to remove limescale that could block it.

SAFETY

Since the heat exchanger is external to the tank, no contamination between water and refrigerant fluid is possible.

Anti-legionella system: the danger of legionella bacteria is averted thanks to periodic cycles that raise the temperature of the water inside the accumulation above 65° C.

The titanium anode protects the tank from the corrosive action of water in an inexhaustible way: it guarantees greater reliability and lower maintenance costs compared to a solution with a magnesium anode.

HYDRAULIC CONNECTIONS DIAGRAM

