

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

.....

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

.....

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					
	Circulation pump	Air flow	m³/h	0.9		1.0		1.4	
		Brand		Shinhoo					
	Water connections	Static pressure ²	kPa	79		78		63	
		Type		Threaded					
	Min/Max operating pressure	Dimension	Inches	1" F BSP					
				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					
	Sound power level	Air flow aria	m³/h	3200				5800	
				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

.....

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 aria	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	dB(A)	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.