HMI - HMI_1

Reversible air/water heat pump

Cooling capacity 3,0 ÷ 14,5 kW – Heating capacity 4,0 ÷ 15,5 kW

- **Refrigerant gas R32**
- **Production of hot domestic water with external temperatures from -25 °C to 45 °C**
- **Quick & easy installation**
- **Hermetically sealed equipment**

EUROVENT LCP

DESCRIPTION

HMI and HMI_1 are reversible outdoor heat pump for air-conditioning systems where, in addition to cooling rooms, high-temperature hot water is required for heating or for the production of domestic hot water.
For the production of DHW it is mandatory to combine it with a domestic hot water storage tank Aermec compatibile.
HMI and HMI_1 are designed to meet the needs of both the new constructions market and the renovation market, **replacing or working alongside conventional boilers**.
They can be combined with low-temperature emission systems such as floor heating or fan coils, and also with more traditional radiators, **and come supplied with the main hydraulic components needed, thereby facilitating the final installation**.

FEATURES

Operating limits

Full load operation down to -25°C (outside air temperature in winter), and up to 48°C in summer.
Maximum processed water temperature in heating mode:
HMI: 60 °C
HMI_1: 65 °C

— Refrigerant circuit with economizer.
— Inverter rotary compressor.
— DC brushless axial flow fans designed for aerodynamic optimisation, reducing the noise level whilst at the same time increasing the efficiency and air flow rate.
— Fitted with a electrical anti-freeze heater (in unit base) to avoid the formation of ice and encourage the drainage of condensate during heating operation.
— Electronic expansion valve.

Main hydraulic components

— Inverter pump.
— Plate heat exchanger.
— Expansion tank
— Safety valve.
— Flow switch.
— Water filter supplied **(mandatory installation)**.

Regulation

Adjustment via **a multi-language touch-screen control panel:**
— Management of a 3 way diverting valve (not supplied) for the production of domestic hot water.
— Management of a 2 way valve (not supplied) for shutting off part of the system.
— Weekly programming in time periods.
— **Auto-restart** function.
— Emergency operation (a supplementary heat source may be activated).
— **Quick hot water** function, for quickly heating domestic hot water.
— **Weather dependent mode** function for climate control.
— **Quiet** function for reduced noise operation (programmable with a timer).
— Condensation check
— When the anti-legionella cycle is activated (it's easily set via the control panel), the whole tank is heated once a week to a temperature (max. 70 °C) that weakens the bacteria responsible for the infection.

Special golden fin coil

Unlike normal batteries, this special golden epoxy coating silicon free is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.

Smart APP Ewpe

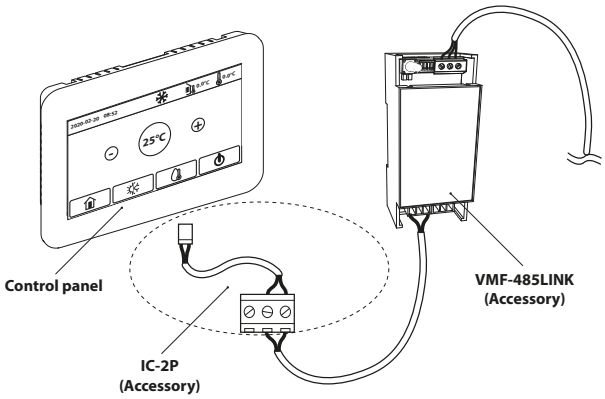
The system is equipped standard with the Wi-Fi module; using this module and the app for iOS and Android devices (available free on Apple Store and Google Play, the system can be directly controlled from a distance on your smartphone or tablet. Remote control is possible via Cloud, using a wireless router connected to the Internet.

ACCESSORIES

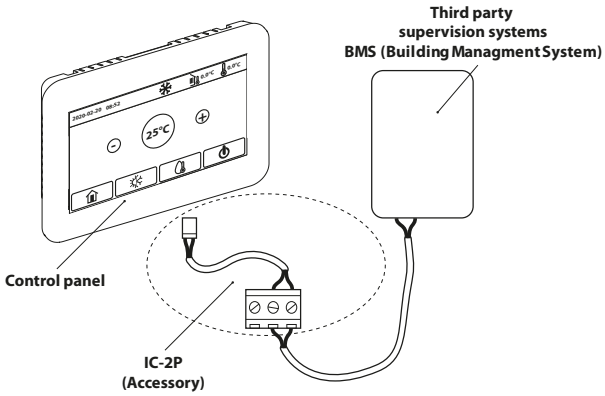
HMICB15: Connection cable for the control panel. Cable length 15m.
IC-2P: Connector for communication via Mod Bus or VMF -485LINK. Accessory compulsory if combined with VMF-485LINK, or for third party supervision systems.
VMF-485LINK: Expansion to interface the unit with the VMF communication protocol, making it possible to manage it from the VMF-E5 or VMF-E6 supervisors.
VMF-E5: Black recessed panel with backlit graphic LCD display and capacitive keyboard, it allows the centralised command/control of a complete hydronic system consisting of Fan coils: up to 64 fan coil zones consisting of 1 master + up to 5 slaves; Chiller/heat pump (accessory required for RS 485 interface), pumps: up to 12 configurable zone pumps; boiler: boiler hook-up management for hot water production; heat recovery units: up to 3 hook-ups per programmable recovery units based on time periods and/or by measuring air quality with the VMF-VOC accessory; domestic water module: complete management of the domestic hot water production through the control of: diverter valve/pump, integrated heating element, storage tank temperature sensor, anti-legionella circuit system. The panel is available in both white (VMF-E5B) and black (VMF-E5N).
VMF-E6: White flush-mounting panel with 4.3 inch colour touchscreen. For the centralised command/control of a complete hydronic/aeraulic system consisting of: fan coils (up to 64 fan coil zones formed of 1 master + max. 5 slaves), heat pumps (up to 4), MZC accessories (up to 5) for the management of radiant panels (using a suitable number of VMF-REB accessories, up to 64 radiant panels associated with the fan coil zones and up to 32 radiant panels associated with the zones served by MZC), the complete management of DHW production, control of the RAS heater and/or the boiler, management of digital I/Os, control of heat recovery units and VOC probes (up to 4).
LOGATW: Diagnostic tool for air-water heat pumps.
DHWT300S: (220-240V~50Hz) DHW storage tank in enamelled steel. Single-phase power supply, tank capacity 300 litres with main and secondary coils and 3 kW back-up electric heater. Magnesium sacrificial anode. Indoor installation.

For more information about VMF system, refer to the dedicated documentation.

Connection with VMF-485LINK



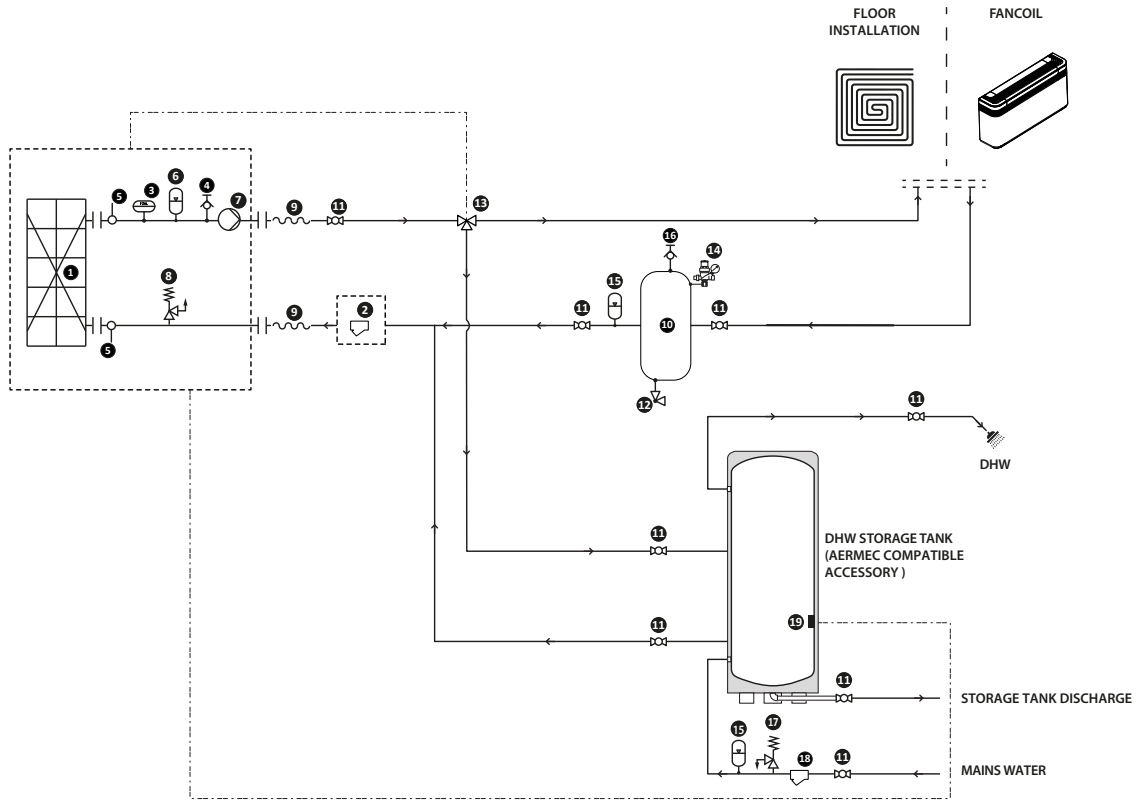
Connection with third party supervision systems



Accessories compatibility

Accessory	HMI series	HMI_1 series
LOGATW	•	•
HMICB15	•	•
IC-2P	•	•
VMF-485LINK	•	•
VMF-E5	•	•
VMF-E6	•	•

FLOOR SYSTEM + DHW



COMPONENTS AS STANDARD

1 Plate heat exchanger
2 Water filter (as standard)
3 Flow switch
4 Air drain valve
5 Water temperature sensor (IN/OUT)
6 Expansion vessel
7 Pump
8 Pressure relief valve

HYDRAULIC COMPONENTS RECOMMENDED OUTSIDE THE UNIT (AT THE INSTALLER'S RESPONSIBILITY)

9 Anti-vibration joints
10 System storage tank (recommended installation if the system water content is lower than that indicated in the technical manual).
11 Flow shut-off valves
12 Drain valve
13 3 way valve
14 Loading unit
15 Expansion vessel
16 Air drain valve
17 Pressure relief valve
18 Water filter
19 Water temperature probe DHW

In case of a free-standing system, the bypass valve must be installed to ensure the circulation of a minimum amount of water to the system.

PERFORMANCE SPECIFICATIONS

HMI

		HMI080	HMI100	HMI100T	HMI120	HMI120T	HMI140	HMI140T	HMI160	HMI160T
Cooling performance 12 °C / 7 °C (1)										
Cooling capacity	kW	5,00	7,80	7,80	9,50	9,50	12,00	12,00	13,00	13,00
Input power	kW	1,61	2,48	2,48	3,11	3,20	4,14	4,14	4,91	4,91
Cooling total input current	A	7,37	11,35	4,01	14,65	4,73	18,95	6,65	22,70	7,46
EER	W/W	3,10	3,15	3,15	3,05	2,97	2,90	2,90	2,65	2,65
Water flow rate system side	l/h	842	1.318	1.318	1.609	1.609	2.038	2.038	2.210	2.210
Useful head	kPa	75,6	73,8	73,8	70,5	70,5	62,9	62,9	59,3	59,3
Heating performance 40 °C / 45 °C (2)										
Heating capacity	kW	7,50	10,00	9,00	12,00	12,00	14,00	13,00	15,50	15,50
Input power	kW	2,00	2,70	2,70	3,48	3,48	4,18	4,18	4,70	4,70
Heating total input current	A	9,15	12,36	4,10	15,93	5,29	19,13	6,35	21,51	7,14
COP	W/W	3,75	3,70	3,33	3,45	3,45	3,35	3,11	3,30	3,30
Water flow rate system side	l/h	1.326	1.762	1.762	2.110	2.110	2.456	2.456	2.714	2.714
Useful head	kPa	73,8	68,1	68,1	61,4	61,4	53,7	53,7	47,9	47,9
Cooling performance 23 °C / 18 °C (3)										
Cooling capacity	kW	6,75	8,80	8,80	11,00	11,00	12,50	12,50	14,50	14,50
Input power	kW	1,55	1,96	1,96	2,56	2,56	3,05	3,05	3,85	3,82
Cooling total input current	A	7,09	8,97	2,98	11,72	3,89	13,96	4,63	17,48	5,80
EER	W/W	4,36	4,49	4,49	4,30	4,30	4,10	4,10	3,77	3,80
Water flow rate system side	l/h	1.152	1.495	1.495	1.873	1.873	2.132	2.132	2.478	2.478
Useful head	kPa	74,9	72,0	72,0	66,2	66,2	61,0	61,0	53,2	53,2
Heating performance 30 °C / 35 °C (4)										
Heating capacity	kW	7,50	10,00	10,00	12,00	12,00	14,00	14,00	15,50	15,50
Input power	kW	1,63	2,17	2,17	2,64	2,64	3,22	3,22	3,60	3,60
Heating total input current	A	7,46	9,93	3,30	12,08	4,01	14,74	4,89	16,48	5,47
COP	W/W	4,60	4,61	4,61	4,55	4,55	4,35	4,35	4,31	4,30
Water flow rate system side	l/h	1.321	1.756	1.756	2.102	2.102	2.447	2.447	2.704	2.704
Useful head	kPa	73,8	68,2	68,2	61,6	61,6	53,9	53,9	48,1	48,1

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C
(2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.
(3) Data EN 14511:2022; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C
(4) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

HMI_1

		HMI041	HMI061	HMI081	HMI081T	HMI101	HMI101T	HMI121	HMI121T	HMI141	HMI141T	HMI161	HMI161T
Cooling performance 12 °C / 7 °C (1)													
Cooling capacity	kW	4,90	5,70	7,40	7,10	9,00	9,10	11,10	11,10	13,30	13,30	13,80	13,80
Input power	kW	1,40	1,76	2,00	2,10	2,65	2,80	3,58	3,58	4,75	4,75	5,09	5,09
Cooling total input current	A	4,30	5,90	7,37	-	11,35	4,01	14,65	4,73	18,95	6,65	22,70	7,46
EER	W/W	3,50	3,25	3,70	3,38	3,40	3,25	3,10	3,10	2,80	2,80	2,71	2,71
Water flow rate system side	l/h	834	971	1.262	1.211	1.537	1.554	1.897	1.897	2.276	2.276	2.362	2.362
Useful head	kPa	84,0	81,0	73,0	72,0	62,0	61,0	56,0	55,0	40,0	40,0	37,0	37,0
Heating performance 40 °C / 45 °C (2)													
Heating capacity	kW	4,90	6,80	8,30	8,20	10,20	10,20	13,00	13,00	14,20	14,20	16,20	16,20
Input power	kW	1,17	1,66	1,90	2,05	2,50	2,60	3,45	3,45	3,84	3,84	4,49	4,49
Heating total input current	A	4,58	7,23	9,15	-	12,36	4,10	15,93	5,29	19,13	6,35	21,51	7,14
COP	W/W	4,20	4,10	4,36	4,00	4,08	3,92	3,77	3,77	3,70	3,70	3,61	3,61
Water flow rate system side	l/h	860	1.191	1.452	1.435	1.782	1.782	2.268	2.269	2.477	2.477	2.823	2.823
Useful head	kPa	83,0	75,0	65,0	66,0	51,0	51,0	38,0	41,0	33,0	33,0	20,0	20,0
Cooling performance 23 °C / 18 °C (3)													
Cooling capacity	kW	5,00	6,50	8,30	8,30	10,20	10,20	12,00	12,00	13,70	13,90	15,50	15,40
Input power	kW	0,96	1,28	1,56	1,64	2,00	2,13	2,45	2,61	3,00	3,32	3,60	4,05
Cooling total input current	A	3,75	6,04	7,09	-	8,97	2,98	11,72	3,89	13,96	4,63	17,48	5,80
EER	W/W	5,20	5,10	5,32	5,06	5,10	4,79	4,90	4,60	4,57	4,19	4,31	3,80
Water flow rate system side	l/h	854	1.112	1.422	1.422	1.750	1.750	2.060	2.060	2.354	2.388	2.665	2.648
Useful head	kPa	83,0	77,0	66,0	66,0	52,0	52,0	49,0	49,0	37,0	36,0	26,0	26,0
Heating performance 30 °C / 35 °C (4)													
Heating capacity	kW	5,00	6,00	8,20	8,20	10,20	10,20	12,00	12,00	14,20	14,20	15,70	15,70
Input power	kW	0,93	1,11	1,54	1,62	2,02	2,06	2,43	2,49	2,99	3,09	3,45	3,57
Heating total input current	A	3,62	5,49	7,46	-	9,93	3,30	12,08	4,01	14,74	4,89	16,48	5,47
COP	W/W	5,40	5,40	5,32	5,06	5,05	4,95	4,94	4,82	4,75	4,60	4,55	4,40
Water flow rate system side	l/h	874	1.048	1.429	1.429	1.776	1.776	2.088	2.088	2.468	2.468	2.726	2.726
Useful head	kPa	83,0	79,0	66,0	66,0	51,0	51,0	47,0	48,0	33,0	33,0	23,0	23,0

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C
(2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.
(3) Data EN 14511:2022; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C
(4) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

GENERAL TECHNICAL DATA

HMI

		HMI080	HMI100	HMI100T	HMI120	HMI120T	HMI140	HMI140T	HMI160	HMI160T
Electric data										
Rated current input (1)	A	10,4	23,0	12,0	25,0	12,0	29,0	12,0	29,0	12,0
Compressor										
Type	type	Rotary DC Inverter	Rotary DC Inverter	Rotary DC Inverter	Rotary DC Inverter	Rotary DC Inverter	Rotary DC Inverter	Rotary DC Inverter	Rotary DC Inverter	Rotary DC Inverter
Number	no.	1	1	1	1	1	1	1	1	1
Circuits	no.	1	1	1	1	1	1	1	1	1
Refrigerant	type	R32	R32	R32	R32	R32	R32	R32	R32	R32
Total refrigerant charge (2)	kg	0,90	2,20	2,20	2,20	2,20	2,20	2,20	2,20	2,20
GWP		675,0	675,0	675,0	675,0	675,0	675,0	675,0	675,0	675,0
Equivalent CO_2	tCO_2eq	0,61	1,49	1,49	1,49	1,49	1,49	1,49	1,49	1,49
System side heat exchanger										
Type	type	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
Number	no.	1	1	1	1	1	1	1	1	1
Connections (in/out)	Type	Gas femmina	Gas femmina	Gas femmina	Gas femmina	Gas femmina	Gas femmina	Gas femmina	Gas femmina	Gas femmina
Size (in)	Ø	1″	1″	1″	1″	1″	1″	1″	1″	1″
Size (out)	Ø	1″	1″	1″	1″	1″	1″	1″	1″	1″
Fan										
Type	type	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial
Fan motor	type	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
Number	no.	1	1	1	1	1	1	1	1	1
Air flow rate	m^3/h	2600	4500	4500	4500	4500	4500	4500	4500	4500
Sound data measured in cold operation										
Sound pressure (1 m)	dB(A)	53,0	56,0	56,0	56,0	56,0	57,0	57,0	59,0	59,0
Sound data measured in hot operation										
Sound power	dB(A)	65,0	69,0	69,0	69,0	69,0	70,0	70,0	72,0	72,0
Sound pressure (1 m)	dB(A)	51,0	54,0	54,0	54,0	54,0	55,0	55,0	57,0	57,0
Power supply										
Power supply	V/Ph/Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	380-415V 3N ~ 50Hz	220-240V ~ 50Hz	380-415V 3N ~ 50Hz	220-240V ~ 50Hz	380-415V 3N ~ 50Hz	220-240V ~ 50Hz	380-415V 3N ~ 50Hz

(1) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
(2) The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

HMI_1

		HMI041	HMI061	HMI081	HMI081T	HMI101	HMI101T	HMI121	HMI121T	HMI141	HMI141T	HMI161	HMI161T
Electric data													
Rated current input (1)	A	11,0	11,0	23,0	8,0	25,0	9,0	29,0	11,5	30,0	12,0	30,0	12,5
Compressor													
Type	type	Inverter rotary	Inverter rotary	Inverter rotary	Inverter rotary	Inverter rotary	Inverter rotary	Inverter rotary	Inverter rotary	Inverter rotary	Inverter rotary	Inverter rotary	Inverter rotary
Number	no.	1	1	1	1	1	1	1	1	1	1	1	1
Circuits	no.	1	1	1	1	1	1	1	1	1	1	1	1
Refrigerant	type	R32	R32	R32	R32	R32	R32	R32	R32	R32	R32	R32	R32
Total refrigerant charge (2)	kg	0,95	0,95	1,60	1,60	1,60	1,60	2,20	2,20	2,20	2,20	2,20	2,20
GWP		675,0	675,0	675,0	675,0	675,0	675,0	675,0	675,0	675,0	675,0	675,0	675,0
Equivalent CO_2	tCO_2eq	0,64	0,64	1,08	1,08	1,08	1,08	1,49	1,49	1,49	1,49	1,49	1,49
System side heat exchanger													
Type	type	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
Number	no.	1	1	1	1	1	1	1	1	1	1	1	1
Connections (in/out)	Type	Gas femmina	Gas femmina	Gas femmina	Gas femmina	Gas femmina	Gas femmina	Gas femmina	Gas femmina	Gas femmina	Gas femmina	Gas femmina	Gas femmina
Size (in)	Ø	1″	1″	1″	1″	1″	1″	1″	1″	1″	1″	1″	1″
Size (out)	Ø	1″	1″	1″	1″	1″	1″	1″	1″	1″	1″	1″	1″
Fan													
Type	type	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial
Fan motor	type	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
Number	no.	1	1	1	1	1	1	1	1	1	1	1	1
Air flow rate	m^3/h	3200	3200	5800	5800	5800	5800	5051	5051	5051	5051	5051	5051
Sound data measured in hot operation													
Sound power	dB(A)	58,0	58,0	68,0	68,0	68,0	68,0	68,0	68,0	68,0	68,0	68,0	68,0
Sound pressure (1 m)	dB(A)	52,0	53,0	56,0	56,0	56,0	56,0	58,0	58,0	59,0	59,0	59,0	59,0
Power supply													
Power supply	V/Ph/Hz	230V ~ 50Hz	230V ~ 50Hz	230V ~ 50Hz	400V 3N ~ 50Hz	230V ~ 50Hz	400V 3N ~ 50Hz	230V ~ 50Hz	400V 3N ~ 50Hz	230V ~ 50Hz	400V 3N ~ 50Hz	230V ~ 50Hz	400V 3N ~ 50Hz

(1) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
(2) The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

ENERGY DATA

HMI

Energy data

		HMI080	HMI100	HMI100T	HMI120	HMI120T	HMI140	HMI140T	HMI160	HMI160T
SEER - 12/7 (EN14825: 2018)										
SEER	W/W	5,05	4,47	4,53	4,47	4,58	4,58	4,58	4,58	4,55
Seasonal efficiency	%	199,00	176,00	178,00	176,00	180,00	180,00	180,00	180,00	179,00
Performance in average ambient conditions (average) - 55 °C (1)										
Efficiency energy class		A++	A++	A++	A++	A++	A++	A++	A++	A++
Pdesignh	kW	7,00	8,00	8,00	10,00	10,00	11,00	11,00	13,00	13,00
SCOP	W/W	3,25	3,23	3,28	3,23	3,23	3,20	3,20	3,20	3,20
ηsh	%	127,00	126,00	128,00	126,00	126,00	125,00	125,00	125,00	125,00

(1) Efficiencies for average temperature applications (55 °C)

HMI_1

Energy data

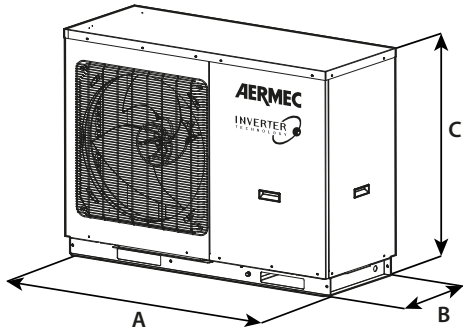
		HMI041	HMI061	HMI081	HMI081T	HMI101	HMI101T	HMI121	HMI121T	HMI141	HMI141T	HMI161	HMI161T
SEER - 12/7 (EN14825: 2018)													
SEER	W/W	4,83	4,95	5,00	4,83	5,05	4,85	4,93	4,77	4,90	4,75	4,80	4,68
Seasonal efficiency	%	190,00	195,00	197,00	190,00	199,00	191,00	194,00	188,00	193,00	187,00	189,00	184,00
Performance in average ambient conditions (average) - 55 °C (1)													
Efficiency energy class		A++	A++	A+++	A++	A+++	A++	A++	A+++	A++	A+++	A++	A+++
Pdesignh	kW	5,00	5,00	9,00	9,00	10,00	10,00	12,00	12,00	13,00	13,00	14,00	14,00
SCOP	W/W	3,50	3,50	3,70	3,45	3,88	3,58	3,80	3,83	3,75	3,83	3,73	3,83
ηsh	%	137,00	137,00	145,00	135,00	152,00	140,00	149,00	150,00	147,00	150,00	146,00	150,00
Performance in average ambient conditions (average) - 35 °C (2)													
Efficiency energy class		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
Pdesignh	kW	5,00	6,00	8,00	8,00	10,00	9,00	12,00	12,00	13,00	13,00	14,00	13,00
SCOP	W/W	4,88	5,05	4,50	4,47	3,88	4,80	4,77	4,58	4,70	3,83	4,68	4,55
ηsh	%	192,00	199,00	177,00	176,00	152,00	189,00	188,00	180,00	185,00	150,00	184,00	179,00

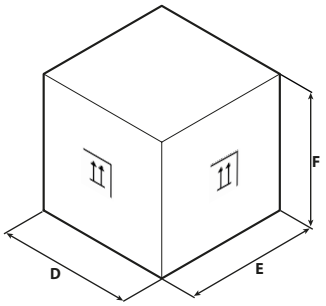
(1) Efficiencies for average temperature applications (55 °C)
(2) Efficiencies for low temperature applications (35 °C)

Low-temperature energy indices are not Eurovent-certified data.

DIMENSIONS

HMI

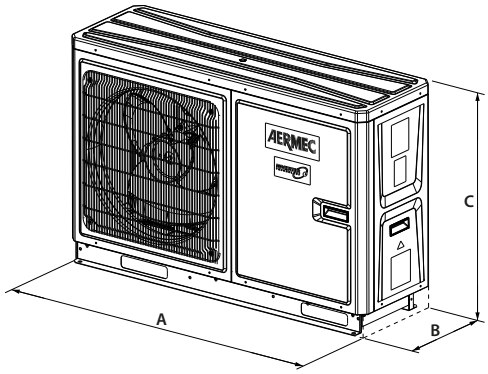


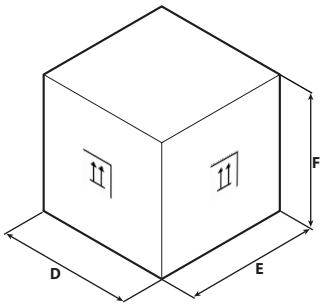


Carton Box Example

		HMI080	HMI100	HMI100T	HMI120	HMI120T	HMI140	HMI140T	HMI160	HMI160T
Dimensions and weights										
A	mm	1150	1200	1200	1200	1200	1200	1200	1200	1200
B	mm	345	460	460	460	460	460	460	460	460
C	mm	758	878	878	878	878	878	878	878	878
D	mm	1260	1295	1295	1295	1295	1295	1295	1295	1295
E	mm	490	595	595	595	595	595	595	595	595
F	mm	900	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020
Net weight	kg	96,0	151,0	151,0	151,0	151,0	151,0	151,0	151,0	151,0
Weight for transport	kg	109,0	166,0	166,0	166,0	166,0	166,0	166,0	166,0	166,0

HMI_1





Carton Box Example

		HMI041	HMI061	HMI081	HMI081T	HMI101	HMI101T	HMI121	HMI121T	HMI141	HMI141T	HMI161	HMI161T
Dimensions and weights													
A	mm	1150	1150	1206	1206	1206	1206	1206	1206	1206	1206	1206	1206
B	mm	365	365	445	445	445	445	445	445	445	445	445	445
C	mm	750	750	880	880	880	880	880	880	880	880	880	880
D	mm	1258	1258	1338	1338	1338	1338	1338	1338	1338	1338	1338	1338
E	mm	503	503	553	553	553	553	553	553	553	553	553	553
F	mm	900	900	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020
Net weight	kg	90,0	90,0	114,0	128,0	114,0	128,0	132,0	138,0	132,0	138,0	132,0	138,0
Weight for transport	kg	106,0	106,0	133,0	146,0	133,0	146,0	150,0	156,0	150,0	156,0	150,0	156,0

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