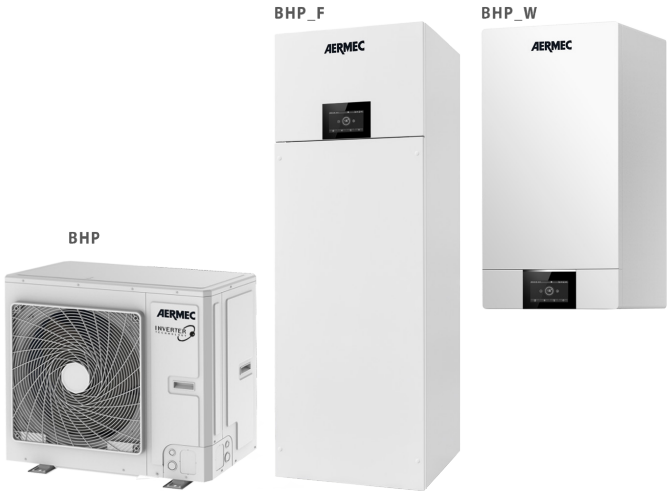
BHP

Reversible air/water split heat pump

Cooling capacity 3,2 ÷ 11,5 kW – Heating capacity 4,0 ÷ 16,0 kW

- **Indoor unit available in two versions, with and without DHW**
- **New R32 ecological refrigerant gas**
- **Production of hot water up to 60 °C**
- **Anti-legionella function**
- **Multi-language touch-screen control panel**



EUROVENT CERTIFIED PERFORMANCE
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DESCRIPTION

BHP It's the new "split" type inverter heat pump system, more efficient than standard boiler systems as it guarantees sustainable, efficient heating, cooling and domestic hot water supply in every season.
BHP is designed to meet the needs of both the new constructions market and the renovation market, replacing or working alongside conventional boilers.
The system can be installed in systems with any hydronic terminal, and is already supplied with the main hydraulic components, thus facilitating final installation.
The indoor unit comes in two versions:

— BHP_W **wall-mounting**, without DHW storage tank but complete with a 3-way DHW-system diverting valve. **For the production of DHW it is mandatory to combine it with a domestic hot water storage tank Aermec compatibile.**
— **BHP_F with base**, complete with DHW storage tank.

FEATURES

Main hydraulic components

BHP outdoor unit

— inverter compressor,
— finned pack heat exchanger with copper pipes and aluminium louvers, with protective golden fin treatment,
— economizer,
— electronic valve,
— DC axial brushless fan,
— electric heater for the base.

BHP_W wall indoor unit

— plate heat exchanger,
— flow switch,
— inverter pump,
— expansion tank,
— drain valve,
— safety valve,
— Electric resistance system side,
— 3 way valve,
— DHW-system connections,
— water filter supplied **(mandatory installation)**.

BHP_F indoor base unit

— plate heat exchanger,
— flow switch,
— inverter pump,
— expansion tank,
— drain valve,
— safety valve,
— Electric resistance system side,
— 3 way valve,
— DHW-system connections,
— water filter supplied **(mandatory installation)**,
— DHW storage tank of 185 litres with coil and supplementary electric heater, and anti-legionella function,
— **tank with Titanium electronic sacrificial anode.**

The indoor and outdoor units are connected by means of suitably sized cooling lines (supplied by the installer).
Cooling circuit use R32 (A2L) refrigerant with low GWP.

Operating limits

Full load operation down to -25°C (outside air temperature in winter), and up to 48°C in summer.

Regulations

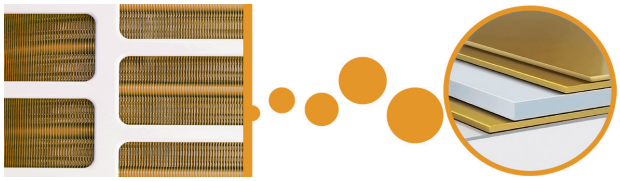
Adjustment via **multi-language touch-screen control panel**:

— ganagement of a 3-way diverting valve 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,
— function **quick water heating** for a quick heating of domestic hot water
— forced operating **mode**,
— intelligent operation **based on weather conditions** for climate adjustment,
— **quiet** function for reduced noise operation (programmable with a timer),
— **Anti-freeze** function,
— 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,
— pre heating **function of the floor** to pre-heat the floor system before unit commissioning.

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.

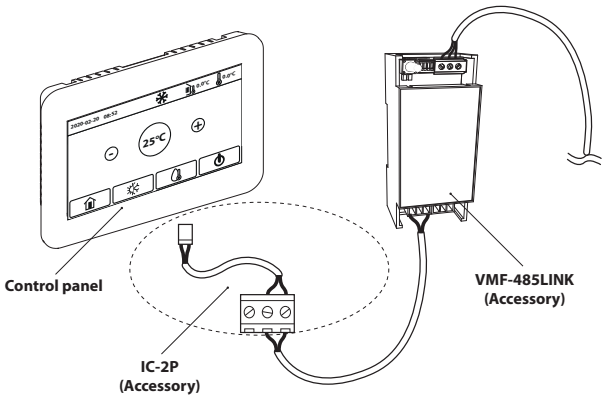
ACCESSORIES

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.
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 the production of DHW it is mandatory to combine it with BHP_W.

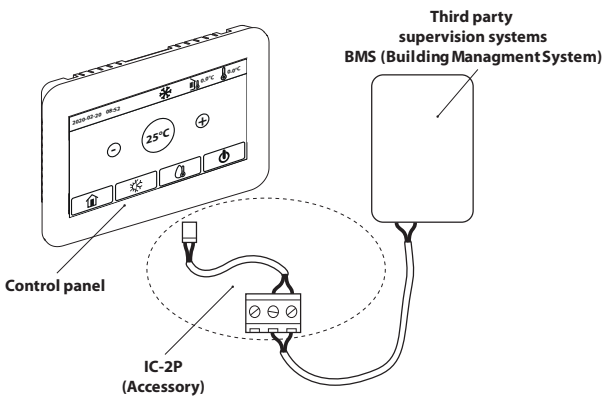
Compatibility with VMF system

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

Connection with VMF-485LINK



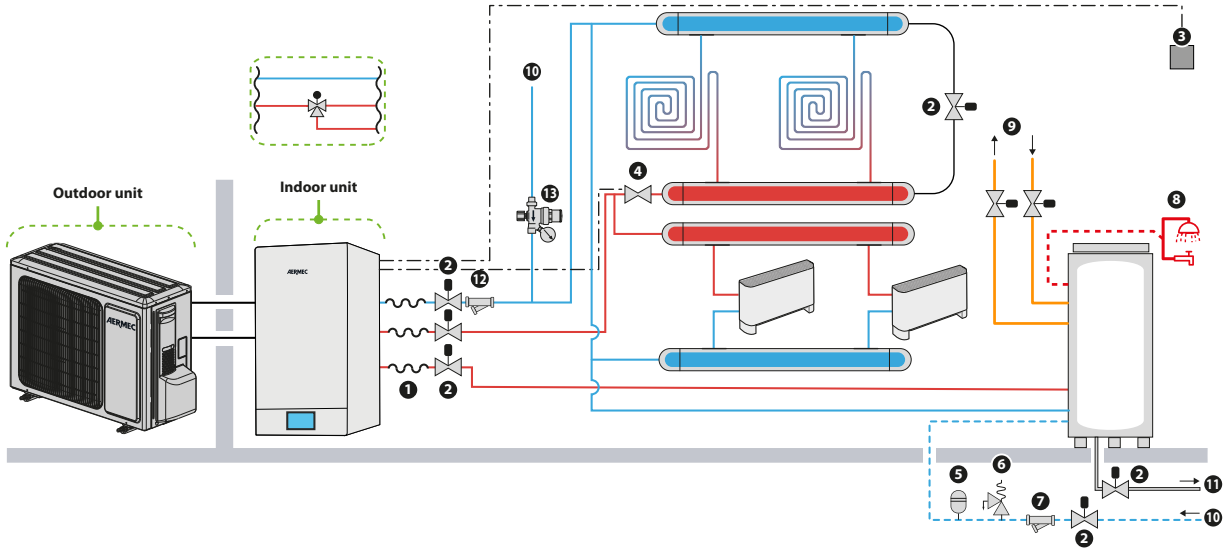
Connection with third party supervision systems



Compatibility with DHW storage tank

	BHP060W	BHP100W	BHP100WT	BHP160W	BHP160WT
DHWT300S	•	•	•	•	•

BHP_W: DOMESTIC HOT WATER STORAGE TANK CONNECTION AND CONNECTION TO THE FLOOR SYSTEM AND FCU



HYDRAULIC COMPONENTS SUPPLIED AS STANDARD IN THE INDOOR UNIT

— Plate heat exchanger
— Flow switch
— Inverter circulator
— Expansion vessel
— Drain valve
— Pressure relief valve
— Electric resistance system side
— 3 way valve
— DHW-system connections

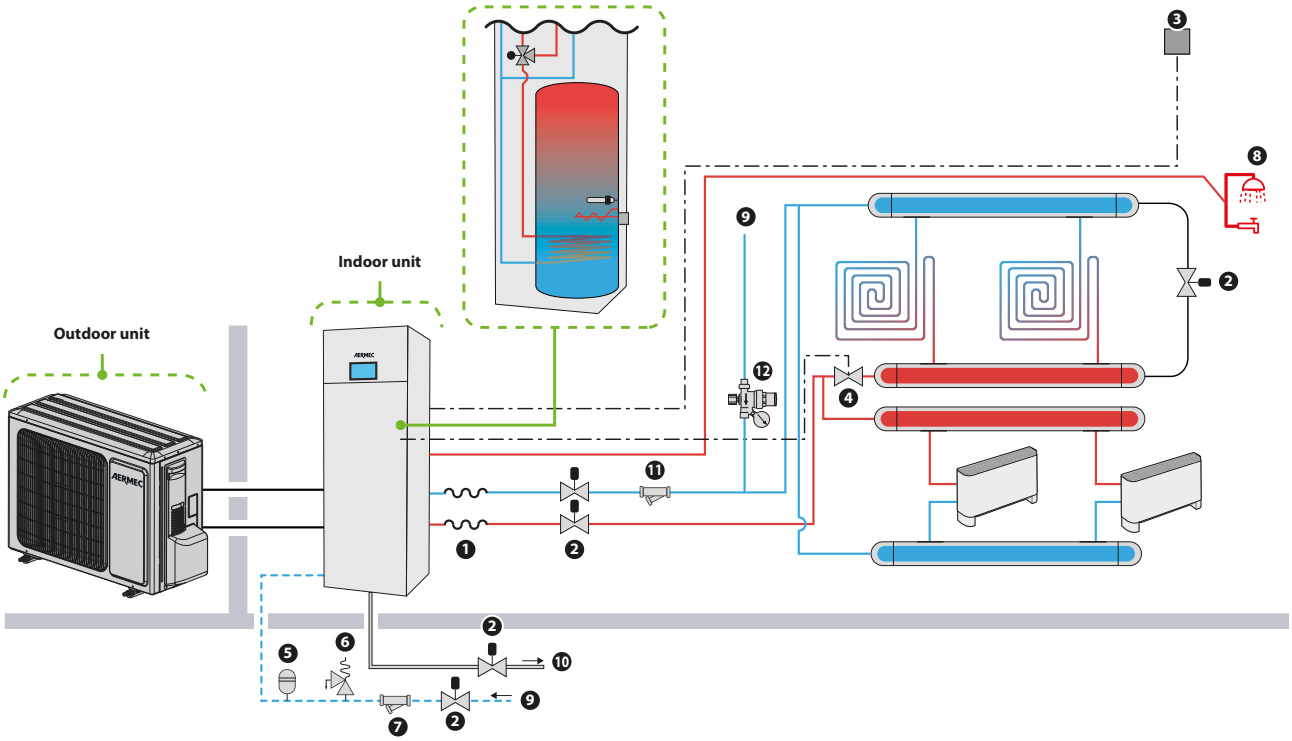
SUPPLIED HYDRAULIC COMPONENTS

12. Water filter supplied **(mandatory installation)**

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

1. Anti-vibration joints
2. Shut-off tap
3. Ambient thermostat
4. 2 way valve
5. Expansion tank **NOT supplied**
6. Safety valve **supplied with Aermec ACS storage system compatible (installation is mandatory)**
7. Water filter **NOT supplied (installation is mandatory)**
8. Hot domestic water
9. Auxiliary heat sources
10. Aqueduct
11. Storage discharge
13. Loading unit

BHP_F: CONNECTION TO THE FLOOR SYSTEM AND FCU



HYDRAULIC COMPONENTS SUPPLIED AS STANDARD IN THE INDOOR UNIT

— Plate heat exchanger
— Flow switch
— Inverter pump
— Expansion vessel
— Drain valve
— Pressure relief valve
— Electric resistance system side
— 3 way valve
— DHW-system connections

SUPPLIED HYDRAULIC COMPONENTS

11. Water filter supplied **(mandatory installation)**

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

1. Anti-vibration joints
2. Shut-off tap
3. Ambient thermostat
4. 2 way valve
5. Expansion tank **NOT supplied**
6. Safety valve **NOT supplied (installation is mandatory)**
7. Water filter **NOT supplied (installation is mandatory)**
8. Hot domestic water
9. Aqueduct
10. Storage discharge
12. Loading unit

PERFORMANCE SPECIFICATIONS

Technical data Wall unit

Indoor unit		BHP060W	BHP060W	BHP100W	BHP100W	BHP160W	BHP160W	BHP160W
Outdoor unit		**BHP040**	**BHP060**	**BHP080**	**BHP100**	**BHP120**	**BHP140**	**BHP160**
Cooling performance 12 °C / 7 °C (1)								
Cooling capacity	kW	3,20	4,09	5,30	6,50	10,07	11,30	11,60
Input power	kW	0,94	1,28	1,73	2,27	3,65	4,04	4,38
EER	W/W	3,42	3,20	3,06	2,86	2,93	2,80	2,65
Water flow rate system side	l/h	550	703	912	1118	1840	1944	1995
Useful head system side	kPa	76	74	70	63	56	54	48
Heating performance 40 °C / 45 °C (2)								
Heating capacity	kW	4,00	5,90	8,00	9,50	12,40	14,50	16,10
Input power	kW	1,02	1,51	2,14	2,64	3,22	3,87	4,41
COP	W/W	3,92	3,91	3,74	3,60	3,85	3,75	3,65
Water flow rate system side	l/h	688	1015	1376	1634	2133	2494	2769
Useful head system side	kPa	74	67	51	36	45	26	11
Cooling performance 23 °C / 18 °C (3)								
Cooling capacity	kW	3,80	5,80	7,00	8,52	11,00	12,60	13,00
Input power	kW	0,82	1,32	1,75	2,25	2,50	3,41	3,60
EER	W/W	4,63	4,40	4,00	3,79	4,40	3,70	3,61
Water flow rate system side	l/h	655	992	1204	1465	1892	2167	2236
Useful head system side	kPa	74	67	60	46	54	40	34
Heating performance 30 °C / 35 °C (4)								
Heating capacity	kW	4,00	6,00	8,00	9,50	12,00	14,00	15,50
Input power	kW	0,78	1,20	1,70	2,07	2,40	2,98	3,44
COP	W/W	5,13	5,00	4,71	4,59	5,00	4,70	4,50
Water flow rate system side	l/h	688	1032	1376	1634	2064	2408	2666
Useful head system side	kPa	74	66	51	36	45	26	15
Heating performance 47 °C / 55 °C								
Heating capacity	kW	3,60	5,40	7,20	8,55	12,00	14,00	16,00
Input power	kW	1,40	2,16	3,05	3,72	3,81	4,52	5,42
COP	W/W	2,57	2,50	2,36	2,30	3,15	3,10	2,95
Useful head system side	kPa	27	19	19	12	65	60	53

(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.

Three-phase Wall unit technical data

Indoor unit		BHP100WT	BHP100WT	BHP160WT	BHP160WT	BHP160WT
Outdoor unit		**BHP080T**	**BHP100T**	**BHP120T**	**BHP140T**	**BHP160T**
Cooling performance 12 °C / 7 °C (1)						
Cooling capacity	kW	7,60	8,20	10,07	11,30	11,60
Input power	kW	2,35	2,73	3,65	4,04	4,38
EER	W/W	3,23	3,00	2,93	2,80	2,65
Water flow rate system side	l/h	1307	1410	1840	1944	1995
Useful head system side	kPa	66	58	56	54	48
Heating performance 40 °C / 45 °C (2)						
Heating capacity	kW	8,00	10,20	12,40	14,50	16,13
Input power	kW	1,93	2,55	3,22	3,87	4,42
COP	W/W	4,15	4,00	3,85	3,75	3,65
Water flow rate system side	l/h	1376	1720	2133	2494	2774
Useful head system side	kPa	60	45	45	26	11
Cooling performance 23 °C / 18 °C (3)						
Cooling capacity	kW	8,50	10,00	11,00	12,60	13,00
Input power	kW	1,74	2,33	2,50	3,41	3,60
EER	W/W	4,89	4,29	4,40	3,70	3,61
Water flow rate system side	l/h	1462	1720	1892	2167	2236
Useful head system side	kPa	54	41	54	40	34
Heating performance 30 °C / 35 °C (4)						
Heating capacity	kW	8,00	10,00	12,00	14,00	15,54
Input power	kW	1,63	2,15	2,40	2,98	3,45
COP	W/W	4,91	4,65	5,00	4,70	4,50
Water flow rate system side	l/h	1376	1754	2064	2408	2673
Useful head system side	kPa	60	46	46	26	14
Heating performance 47 °C / 55 °C						
Heating capacity	kW	8,00	10,00	12,00	14,00	16,00
Input power	kW	2,78	3,80	3,81	4,52	5,42
COP	W/W	2,88	2,63	3,15	3,10	2,95
Useful head system side	kPa	74	70	65	60	53

(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.

Technical data base unit

Indoor unit		BHP060F	BHP060F	BHP100F	BHP100F
Outdoor unit		**BHP040**	**BHP060**	**BHP080**	**BHP100**
Cooling performance 12 °C / 7 °C (1)					
Cooling capacity	kW	3,20	4,09	5,30	6,50
Input power	kW	0,94	1,28	1,73	2,27
EER	W/W	3,42	3,20	3,06	2,86
Water flow rate system side	l/h	550	703	912	1118
Useful head system side	kPa	76	74	70	63
Heating performance 40 °C / 45 °C (2)					
Heating capacity	kW	4,00	5,90	8,00	9,50
Input power	kW	1,02	1,51	2,14	2,64
COP	W/W	3,92	3,91	3,74	3,60
Water flow rate system side	l/h	688	1015	1376	1634
Useful head system side	kPa	74	67	51	36
Cooling performance 23 °C / 18 °C (3)					
Cooling capacity	kW	3,80	5,80	7,00	8,52
Input power	kW	0,82	1,32	1,75	2,25
EER	W/W	4,63	4,40	4,00	3,79
Water flow rate system side	l/h	655	992	1204	1465
Useful head system side	kPa	74	69	60	46
Heating performance 30 °C / 35 °C (4)					
Heating capacity	kW	4,00	6,00	8,00	9,50
Input power	kW	0,78	1,20	1,70	2,07
COP	W/W	5,13	5,00	4,71	4,59
Water flow rate system side	l/h	688	1032	1376	1634
Useful head system side	kPa	74	66	51	36
Heating performance 47 °C / 55 °C					
Heating capacity	kW	3,60	5,40	7,20	8,55
Input power	kW	1,40	2,16	3,05	3,72
COP	W/W	2,57	2,50	2,36	2,30
Useful head system side	kPa	27	19	19	12

(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.

ENERGY DATA

Energy data Wall unit

Indoor unit		BHP060W	BHP060W	BHP100W	BHP100W	BHP160W	BHP160W	BHP160W
Outdoor unit		**BHP040**	**BHP060**	**BHP080**	**BHP100**	**BHP120**	**BHP140**	**BHP160**
UE 811/2013 performance in average ambient conditions (average) - 35 °C - Pdesignh ≤ 70 kW (1)								
Pdesignh	kW	5	6	7	9	11	12	13
SCOP	W/W	4,66	4,54	4,60	4,60	4,63	4,65	4,61
ηsh	%	183,50	178,70	181,00	181,00	182,00	183,00	181,20
Efficiency energy class		A+++	A+++	A+++	A+++	A+++	A+++	A+++
UE 811/2013 performance in average ambient conditions (average) - 55 °C - Pdesignh ≤ 70 kW (2)								
Pdesignh	kW	5	5	7	8	11	13	13
SCOP	W/W	3,28	3,26	3,30	3,25	3,24	3,50	3,50
ηsh	%	128,10	127,40	129,00	127,00	126,40	137,00	137,00
Efficiency energy class		A++	A++	A++	A++	A++	A++	A++
Performance as combined heat generator								
Bleeding profile		XL	XL	XL	XL	XL	XL	XL
Efficiency energy class		A	A	A	A	A	A	A

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

Indoor unit		BHP060W	BHP060W	BHP100W	BHP100W	BHP160W	BHP160W	BHP160W
Outdoor unit		**BHP040**	**BHP060**	**BHP080**	**BHP100**	**BHP120**	**BHP140**	**BHP160**
Cooling capacity with low leaving water temp (UE n° 2016/2281)								
SEER	W/W	4,21	4,12	4,11	4,12	4,90	4,91	4,78
ηsc	%	165,00	162,00	161,00	162,00	193,00	193,00	188,00

Three-phase Wall unit energy data

Indoor unit		BHP100WT	BHP100WT	BHP160WT	BHP160WT	BHP160WT
Outdoor unit		**BHP080T**	**BHP100T**	**BHP120T**	**BHP140T**	**BHP160T**
UE 811/2013 performance in average ambient conditions (average) - 35 °C - Pdesignh ≤ 70 kW (1)						
Pdesignh	kW	8	9	11	12	13
SCOP	W/W	4,53	4,70	4,48	4,48	4,45
ηsh	%	178,10	185,20	176,00	176,00	175,00
Efficiency energy class		A+++	A+++	A+++	A+++	A+++
UE 811/2013 performance in average ambient conditions (average) - 55 °C - Pdesignh ≤ 70 kW (2)						
Pdesignh	kW	9	10	11	13	13
SCOP	W/W	3,48	3,49	3,23	3,38	3,38
ηsh	%	136,10	136,70	126,00	132,00	132,00
Efficiency energy class		A++	A++	A++	A++	A++
Performance as combined heat generator						
Bleeding profile		XL	XL	XL	XL	XL
Efficiency energy class		A	A	A	A	A

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

Indoor unit		BHP100WT	BHP100WT	BHP160WT	BHP160WT	BHP160WT
Outdoor unit		**BHP080T**	**BHP100T**	**BHP120T**	**BHP140T**	**BHP160T**
Cooling capacity with low leaving water temp (UE n° 2016/2281)						
SEER	W/W	4,11	4,12	4,74	4,76	4,64
ηsc	%	161,00	162,00	187,00	187,00	183,00

Energy data base unit

Indoor unit		BHP060F	BHP060F	BHP100F	BHP100F
Outdoor unit		**BHP040**	**BHP060**	**BHP080**	**BHP100**
UE 811/2013 performance in average ambient conditions (average) - 35 °C - Pdesignh ≤ 70 kW (1)					
Pdesignh	kW	5	6	7	9
SCOP	W/W	4,66	4,54	4,60	4,60
ηsh	%	183,50	178,70	181,00	181,00
Efficiency energy class		A+++	A+++	A+++	A+++
UE 811/2013 performance in average ambient conditions (average) - 55 °C - Pdesignh ≤ 70 kW (2)					
Pdesignh	kW	5	5	7	8
SCOP	W/W	3,28	3,26	3,30	3,25
ηsh	%	128,10	127,40	129,00	127,00
Efficiency energy class		A++	A++	A++	A++
Performance as combined heat generator					
Bleeding profile		L	L	L	L
Efficiency energy class		A	A	A	A

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

Indoor unit		BHP060F	BHP060F	BHP100F	BHP100F
Outdoor unit		**BHP040**	**BHP060**	**BHP080**	**BHP100**
Cooling capacity with low leaving water temp (UE n° 2016/2281)					
SEER	W/W	4,21	4,12	4,11	4,12
ηsc	%	165,00	162,00	161,00	162,00

INDOOR UNIT

BHP_W indoor wall unit

		BHP060W	BHP100W	BHP160W
Electric data				
Rated power input (1)	kW	3,10	6,10	6,10
Electric heater				
Number	no.	2	2	2
Power of the single heater	kW	1,50	3,00	3,00
System side heat exchanger				
Type	type		Brazed plate	
Number	no.	1	1	1
Unit / system input	type		G1 male	
Unit / system output	type		G1 male	
DHW output	type		G1 male	
Circulator				
Quantity	no.	1	1	1
Motor	type		DC brushless	
Expansion vessel				
Number	no.	1	1	1
Volume	l	10,0	10,0	10,0
Maximum pressure	bar	2,5	2,5	2,5
Sound data calculated in cooling mode (2)				
Sound power level	dB(A)	42,0	42,0	42,0
Sound pressure level	dB(A)	14,0	14,0	14,0
Power supply				
Power supply			230V ~ 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) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

Three-phase wall unit BHP_WT

		BHP100WT	BHP160WT
Electric data			
Rated power input (1)	kW	6,10	6,10
Electric heater			
Number	no.	2	2
Power of the single heater	kW	3,00	3,00
System side heat exchanger			
Type	type	Brazed plate	
Number	no.	1	1
Unit / system input	type	G1 male	
Unit / system output	type	G1 male	
DHW output	type	G1 male	
Circulator			
Quantity	no.	1	1
Motor	type	DC brushless	
Expansion vessel			
Number	no.	1	1
Volume	l	10,0	10,0
Maximum pressure	bar	2,5	2,5
Sound data calculated in cooling mode (2)			
Sound power level	dB(A)	42,0	42,0
Sound pressure level	dB(A)	14,0	14,0
Power supply			
Power supply		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) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

BHP_F indoor base unit

		BHP060F	BHP100F
Electric data			
Rated power input (1)	kW	3,10	6,10
Electric heater			
Number	no.	2	2
Power of the single heater	kW	1,50	3,00
System side heat exchanger			
Type	type	Brazed plate	
Number	no.	1	1
Unit / system input	type	G1 male	
Mains water input	type	G1 male	
Unit / system output	type	G1 male	
DHW output	type	G1 male	
Circulator			
Quantity	no.	1	1
Motor	type	DC brushless	
Expansion vessel			
Number	no.	1	1
Volume	l	10,0	10,0
Maximum pressure	bar	2,5	2,5
Storage tank (DHW)			
Volume	l	185	185
Sound data calculated in cooling mode (2)			
Sound power level	dB(A)	42,0	42,0
Sound pressure level	dB(A)	14,0	14,0
Power supply			
Power supply		230V ~ 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) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

OUTDOOR UNIT

		BHP040	BHP060	BHP080	BHP080T	BHP100	BHP100T
Electric data							
Rated current input (1)	A	10,0	10,0	19,0	7,5	22,0	7,5
Compressor							
Type	type	Rotativo doppio stadio inverter					
Number	no.	1	1	1	1	1	1
Circuits	no.	1	1	1	1	1	1
Refrigerant	type	R32					
Refrigerant charge	kg	1,00	1,00	1,60	1,84	1,60	1,84
Potential global heating	GWP	675kgCO_2eq					
Oil							
Type	type	FW68DA					
Quantity	l	0,47	0,47	0,84	0,84	0,84	0,84
Refrigeration pipework							
Diameter of liquid refrigerant connections	mm (inch)	6,35 (1/4")					
Diameter of refrigerant gas connections	mm (inch)	12,7 (1/2")					
Exchanger							
Type	type	Finned coil					
Louvers type	type	Golden fin					
Number	no.	1	1	1	1	1	1
Expansion vessel							
Type	type	Electronic expansion valve					
Number	no.	1	1	1	1	1	1
Fan							
Type	type	Inverter axial					
Fan motor	type	DC brushless					
Number	no.	1	1	1	1	1	1
Air flow rate	m^3/h	3200	3200	3300	3300	3300	3300
Sound data calculated in cooling mode (2)							
Sound power level	dB(A)	62,0	62,0	67,0	68,0	68,0	68,0
Sound pressure level (1 m)	dB(A)	52,0	52,0	55,0	55,0	55,0	55,0
Sound pressure level (10 m)	dB(A)	34,0	34,0	39,0	40,0	40,0	40,0
Power supply							
Power supply		230V ~ 50Hz			400V 3N ~ 50Hz	230V ~ 50Hz	400V 3N ~ 50Hz

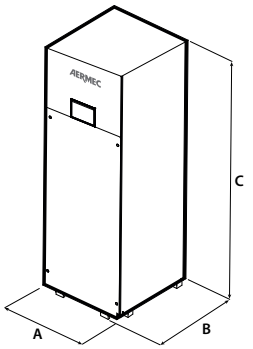
		BHP120	BHP120T	BHP140	BHP140T	BHP160	BHP160T
Electric data							
Rated current input (1)	A	25,6	9,2	28,7	11,5	30,3	11,5
Compressor							
Type	type	Rotativo doppio stadio inverter					
Number	no.	1	1	1	1	1	1
Circuits	no.	1	1	1	1	1	1
Refrigerant	type	R32					
Refrigerant charge	kg	1,84	1,84	1,84	1,84	1,84	1,84
Potential global heating	GWP	675kgCO_2eq					
Oil							
Type	type	FW68DA					
Quantity	l	1,05	1,05	1,05	1,05	1,05	1,05
Refrigeration pipework							
Diameter of liquid refrigerant connections	mm (inch)	6,35 (1/4")					
Diameter of refrigerant gas connections	mm (inch)	12,7 (1/2")			15,87 (5/8")		
Exchanger							
Type	type	Finned coil					
Louvers type	type	Golden fin					
Number	no.	1	1	1	1	1	1
Expansion vessel							
Type	type	Electronic expansion valve					
Number	no.	1	1	1	1	1	1
Fan							
Type	type	Inverter axial					
Fan motor	type	DC brushless					
Number	no.	1	1	1	1	1	1
Air flow rate	m^3/h	5044	5044	5044	5044	5044	5044
Sound data calculated in cooling mode (2)							
Sound power level	dB(A)	68,0	68,0	68,0	68,0	68,0	68,0
Sound pressure level (1 m)	dB(A)	60,0	60,0	61,0	61,0	61,0	61,0
Sound pressure level (10 m)	dB(A)	40,0	40,0	40,0	40,0	40,0	40,0
Power supply							
Power supply		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) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

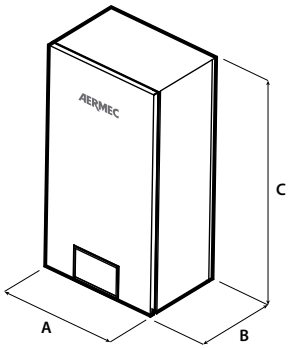
DIMENSIONS AND WEIGHTS

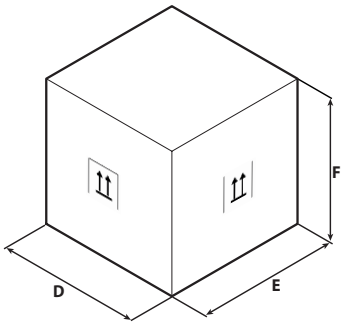
Indoor units

BHP_F



BHP_W





Carton Box Example

BHP_W

		BHP060W	BHP100W	BHP160W
Indoor unit				
A	mm	460	460	460
B	mm	318	318	318
C	mm	860	860	860
D	mm	568	568	568
E	mm	390	390	390
F	mm	1133	1133	1133
Net weight	kg	62,0	62,0	58,0
Weight for transport	kg	71,0	71,0	71,0

BHP_WT

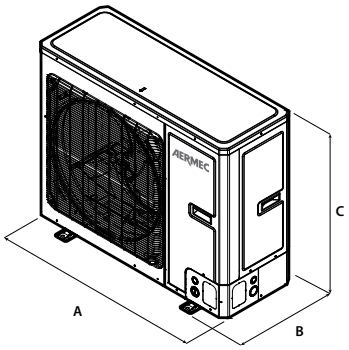
		BHP100WT	BHP160WT
Indoor unit			
A	mm	460	460
B	mm	318	318
C	mm	860	860
D	mm	568	568
E	mm	390	390
F	mm	1133	1133
Net weight	kg	60,0	60,0
Weight for transport	kg	71,0	71,0

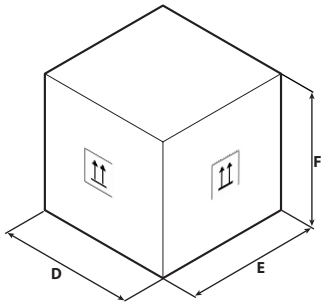
BHP_F

		BHP060F	BHP100F
Indoor unit			
A	mm	600	600
B	mm	600	600
C	mm	1756	1756
D	mm	803	803
E	mm	683	683
F	mm	2000	2000
Net weight	kg	210,0	210,0
Weight for transport	kg	233,0	233,0

Outdoor units

BHP





Carton Box Example

BHP

		BHP040	BHP060	BHP080	BHP080T	BHP100	BHP100T
Outdoor unit							
A	mm	975	975	982	982	982	982
B	mm	396	396	427	360	427	360
C	mm	702	702	787	787	787	787
D	mm	1028	1028	1097	1097	1097	1097
E	mm	458	458	478	478	478	478
F	mm	830	830	937	937	937	937
Net weight	kg	55,0	55,0	82,0	88,0	82,0	88,0
Weight for transport	kg	65,0	65,0	92,0	98,0	92,0	98,0

		BHP120	BHP120T	BHP140	BHP140T	BHP160	BHP160T
Outdoor unit							
A	mm	940	940	940	940	940	940
B	mm	460	460	460	460	460	460
C	mm	820	820	820	820	820	820
D	mm	1103	1103	1103	1103	1103	1103
E	mm	573	573	573	573	573	573
F	mm	973	973	973	973	973	973
Net weight	kg	104,0	110,0	104,0	110,0	104,0	110,0
Weight for transport	kg	114,0	121,0	114,0	121,0	114,0	121,0

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www.aermec.com

HMI

Reversible air/water heat pump

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

- **New R32 ecological refrigerant gas**
- **Production of hot water up to 60 °C**
- **Production of hot domestic water with external temperatures from -25 °C to 48 °C**
- **Quick & easy installation**

DESCRIPTION

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 the Aermec compatible domestic hot water storage tank.**

HMI is designed to meet the needs of both the new constructions market and the renovation market, **replacing or working alongside conventional boilers**.

It can be combined with low-temperature emission systems such as floor heating or fan coils, and also with more traditional radiators, **and comes supplied with the main hydraulic components needed, thereby facilitating the final installation**.

FEATURES

Operating limits

Working at full load up to -25 °C outside air temperature in winter, and up to 48 °C in summer. Maximum temperature of water produced in heating mode 60 °C.

— Refrigerant circuit with economizer.
— 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)**.

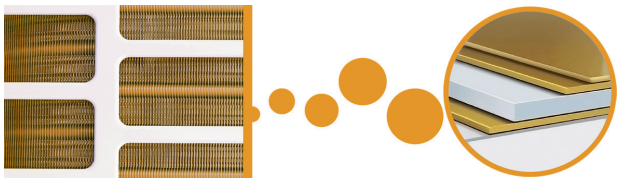
Regulation

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

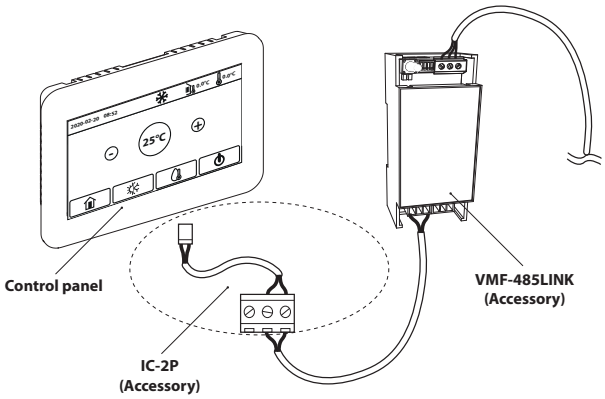
The system is equipped standard with the Wi-Fi module; using this module and the app for iOS and Android devices (available free on Apple Store and Google Play, the system can be directly controlled from a distance on your smartphone or tablet. Remote control is possible via Cloud, using a wireless router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

ACCESSORIES

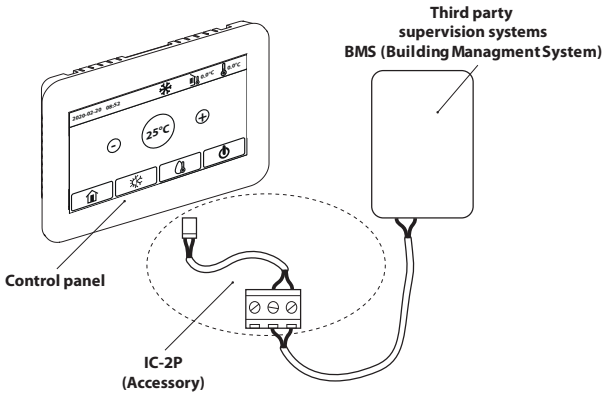
HMICB15: Connection cable for the control panel. Cable length 15m.
IC-2P: Connector for communication via Mod Bus or VMF -485LINK. Accessory compulsory if combined with VMF-485LINK, or for third party supervision systems.
VMF-485LINK: Expansion to interface the unit with the VMF communication protocol, making it possible to manage it from the VMF-E5 or VMF-E6 supervisors.
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

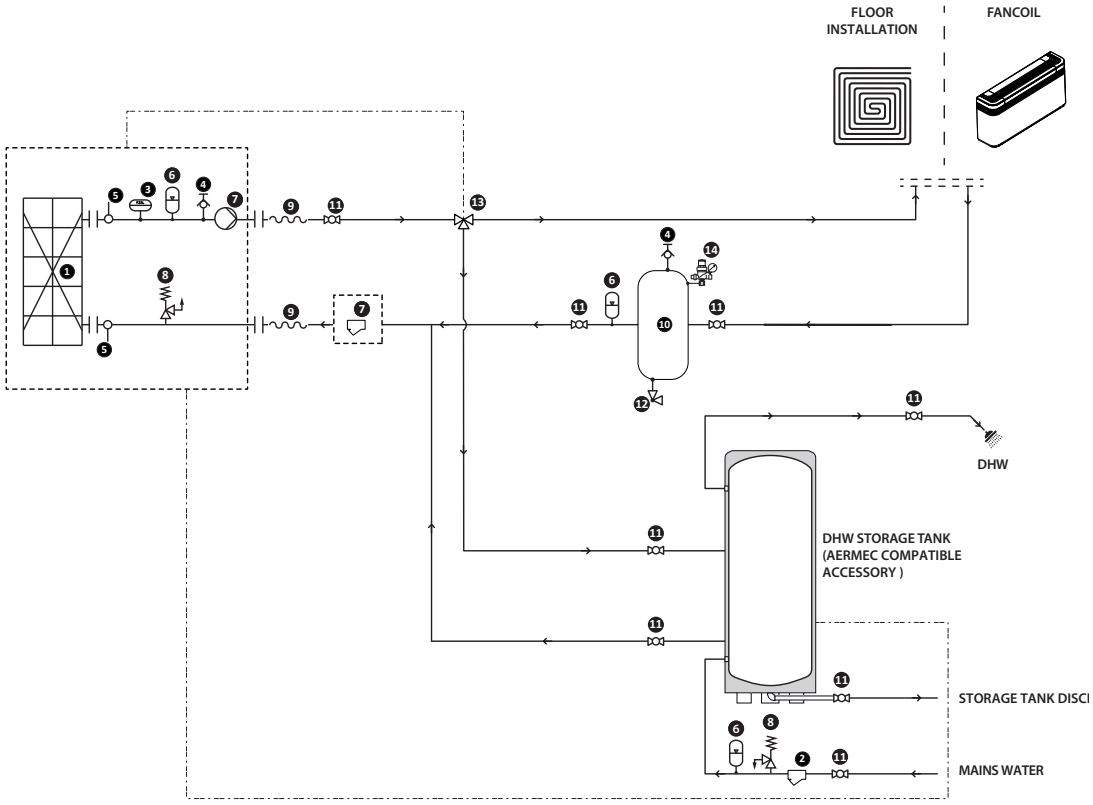


Connection with third party supervision systems



Accessories compatibility

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)

4 Air drain valve
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
6 Expansion vessel
12 Drain valve
13 3 way valve
14 Loading unit

PERFORMANCE SPECIFICATIONS

EUROVENT TECHNICAL DATA EN 14511:2013

		HMI040	HMI060	HMI080	HMI100	HMI100T	HMI120
Cooling performance 12 °C / 7 °C - EN 14511:2013 (1)							
Cooling capacity	kW	3,00	4,00	5,00	7,80	7,80	9,50
Input power	kW	0,94	1,29	1,61	2,48	2,64	3,20
Input current	A	4,3	5,9	7,7	11,4	4,0	14,7
EER	W/W	3,19	3,10	3,11	3,15	2,95	2,97
Water flow rate	l/h	516	672	860	1320	1270	1650
Useful head	kPa	75,0	74,0	74,0	71,0	71,0	65,0
Heating performance 40 °C / 45 °C - EN 14511:2013 (2)							
Heating capacity	kW	4,00	6,00	7,50	10,00	10,00	12,00
Input power	kW	1,00	1,58	2,00	2,70	2,70	3,48
Input current	A	4,6	7,2	9,2	12,4	4,1	15,9
COP	W/W	4,00	3,80	3,75	3,70	3,70	3,45
Water flow rate	l/h	690	977	1240	1700	1710	2050
Useful head	kPa	74,0	73,0	72,0	63,0	63,0	52,0

		HMI120T	HMI140	HMI140T	HMI160	HMI160T
Cooling performance 12 °C / 7 °C - EN 14511:2013 (1)						
Cooling capacity	kW	9,50	12,00	12,00	13,00	13,00
Input power	kW	3,11	4,14	4,38	4,96	4,91
Input current	A	4,7	19,0	6,7	22,7	7,5
EER	W/W	3,05	2,90	2,74	2,62	2,65
Water flow rate	l/h	1665	2080	2065	2270	2231
Useful head	kPa	64,0	51,0	51,0	45,0	46,0
Heating performance 40 °C / 45 °C - EN 14511:2013 (2)						
Heating capacity	kW	12,00	14,00	14,00	15,50	15,50
Input power	kW	3,48	4,18	4,18	4,70	4,70
Input current	A	5,3	19,1	6,4	21,5	7,1
COP	W/W	3,45	3,35	3,35	3,30	3,30
Water flow rate	l/h	2040	2500	2474	2700	2734
Useful head	kPa	52,0	37,0	38,0	30,0	29,0

(1) Data EN 14511:2013; System side water heat exchanger 12 °C / 7 °C; External air 35 °C
(2) Data EN 14511:2013; System side water heat exchanger 40 °C/ 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

		HMI040	HMI060	HMI080	HMI100	HMI100T	HMI120
Cooling performance 23 °C / 18 °C - EN 14511:2013 (1)							
Cooling capacity	kW	3,80	5,80	6,80	8,80	8,80	11,00
Input power	kW	0,82	1,32	1,55	1,96	1,96	2,56
Input current	A	3,8	6,0	7,1	9,0	3,0	11,7
EER	W/W	4,63	4,39	4,39	4,49	4,49	4,30
Water flow rate	l/h	660	981	1220	1510	1500	1926
Useful head	kPa	74,0	73,0	72,0	69,0	69,0	56,0
Heating performance 30 °C / 35 °C - EN 14511:2013 (2)							
Heating capacity	kW	4,00	6,00	7,50	10,00	10,00	12,00
Input power	kW	0,79	1,20	1,63	2,17	2,17	2,64
Input current	A	3,6	5,5	7,5	9,9	3,3	12,1
COP	W/W	5,10	5,00	4,60	4,61	4,61	4,55
Water flow rate	l/h	690	1030	1247	1736	1720	2137
Useful head	kPa	74,0	73,0	72,0	62,0	62,0	49,0

		HMI120T	HMI140	HMI140T	HMI160	HMI160T
Cooling performance 23 °C / 18 °C - EN 14511:2013 (1)						
Cooling capacity	kW	11,00	12,50	12,50	14,50	14,50
Input power	kW	2,56	3,05	3,05	3,82	3,82
Input current	A	3,9	14,0	4,6	17,5	5,8
EER	W/W	4,30	4,10	4,10	3,80	3,80
Water flow rate	l/h	1900	2238	2200	2640	2570
Useful head	kPa	57,0	46,0	47,0	32,0	34,0
Heating performance 30 °C / 35 °C - EN 14511:2013 (2)						
Heating capacity	kW	12,00	14,00	14,00	15,50	15,50
Input power	kW	2,64	3,22	3,22	3,60	3,60
Input current	A	4,0	14,7	4,9	16,5	5,5
COP	W/W	4,55	4,35	4,35	4,31	4,31
Water flow rate	l/h	2100	2524	2400	2703	2626
Useful head	kPa	50,0	36,0	40,0	30,0	32,0

(1) Data EN 14511:2013; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C
(2) Data EN 14511:2013; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

EUROVENT TECHNICAL DATA EN 14511:2018

		HMI040	HMI060	HMI080	HMI100	HMI100T	HMI120
Cooling performance 12 °C / 7 °C (1)							
Cooling capacity	kW	2,98	3,97	4,96	7,75	7,75	9,45
Input power	kW	0,94	1,29	1,61	2,48	2,64	3,20
Input current	A	4,7	6,4	7,9	12,0	4,6	15,0
EER	W/W	3,17	3,08	3,08	3,12	2,94	2,95
Water flow rate	l/h	504	673	842	1318	1318	1609
Useful head	kPa	74,0	74,0	74,0	69,0	69,0	64,0
Heating performance 40 °C / 45 °C (2)							
Heating capacity	kW	4,03	6,04	7,55	10,06	10,06	12,06
Input power	kW	1,00	1,58	2,00	2,70	2,70	3,48
Input current	A	5,1	7,8	9,7	13,0	4,7	17,0
COP	W/W	4,03	3,83	3,78	3,72	3,72	3,46
Water flow rate	l/h	710	1062	1326	1762	1762	2110
Useful head	kPa	74,0	73,0	71,0	60,0	60,0	50,0

		HMI120T	HMI140	HMI140T	HMI160	HMI160T
Cooling performance 12 °C / 7 °C (1)						
Cooling capacity	kW	9,45	11,94	11,94	12,95	12,95
Input power	kW	3,11	4,14	4,38	4,96	4,91
Input current	A	5,3	20,0	7,3	23,0	8,1
EER	W/W	3,04	2,88	2,73	2,61	2,64
Water flow rate	l/h	1609	2038	2038	2210	2210
Useful head	kPa	64,0	52,0	52,0	47,0	47,0
Heating performance 40 °C / 45 °C (2)						
Heating capacity	kW	12,06	14,05	14,05	15,54	15,54
Input power	kW	3,48	4,18	4,18	4,70	4,70
Input current	A	5,9	20,0	6,9	22,0	7,7
COP	W/W	3,46	3,36	3,36	3,31	3,31
Water flow rate	l/h	2110	2456	2456	2714	2714
Useful head	kPa	50,0	39,0	39,0	29,0	29,0

(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.

		HMI040	HMI060	HMI080	HMI100	HMI100T	HMI120
Cooling performance 23 °C / 18 °C (1)							
Cooling capacity	kW	3,77	5,76	6,75	8,75	8,75	10,94
Input power	kW	0,82	1,32	1,55	1,96	1,96	2,56
Input current	A	4,2	6,6	7,6	9,5	3,6	12,0
EER	W/W	4,60	4,36	4,36	4,46	4,46	4,27
Water flow rate	l/h	641	982	1152	1495	1495	1873
Useful head	kPa	74,0	74,0	73,0	66,0	66,0	57,0
Heating performance 30 °C / 35 °C (2)							
Heating capacity	kW	4,03	6,04	7,55	10,06	10,06	12,06
Input power	kW	0,79	1,20	1,63	2,17	2,17	2,64
Input current	A	4,1	6,0	8,0	11,0	3,9	13,0
COP	W/W	5,10	5,04	4,63	4,63	4,63	4,57
Water flow rate	l/h	708	1058	1321	1756	1756	2102
Useful head	kPa	74,0	73,0	71,0	60,0	60,0	50,0

		HMI120T	HMI140	HMI140T	HMI160	HMI160T
Cooling performance 23 °C / 18 °C (1)						
Cooling capacity	kW	10,94	12,44	12,44	14,45	14,45
Input power	kW	2,56	3,05	3,05	3,82	3,82
Input current	A	4,5	15,0	5,2	18,0	6,4
EER	W/W	4,27	4,08	4,08	3,78	3,78
Water flow rate	l/h	1873	2132	2132	2478	2478
Useful head	kPa	57,0	50,0	50,0	38,0	38,0
Heating performance 30 °C / 35 °C (2)						
Heating capacity	kW	12,06	14,05	14,05	15,54	15,54
Input power	kW	2,64	3,22	3,22	3,60	3,60
Input current	A	4,6	15,0	5,5	17,0	6,1
COP	W/W	4,57	4,36	4,36	4,32	4,32
Water flow rate	l/h	2102	2447	2447	2704	2704
Useful head	kPa	50,0	39,0	39,0	30,0	30,0

(1) Data EN 14511:2022; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C
(2) 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

		HMI040	HMI060	HMI080	HMI100	HMI100T	HMI120
Electric data							
Rated current input (1)	A	10,4	10,4	10,4	23,0	12,0	25,0
Compressor							
Type	type	Rotary DC Inverter					
Number	no.	1	1	1	1	1	1
Circuits	no.	1	1	1	1	1	1
Refrigerant	type	R32					
Potential global heating	GWP	675 $kgCO_2eq$					
Refrigerant charge (2)	kg	0,9	0,9	0,9	2,2	2,2	2,2
Oil	Type	FW68DA					
Total oil charge	kg	0,5	0,5	0,5	1,1	1,1	1,1
System side heat exchanger							
Type	type	Brazed plate					
Number	no.	1	1	1	1	1	1
Connections (in/out)	Type	Gas Maschio					
Size (in)	Ø	1"					
Size (out)	Ø	1"					
Fan							
Type	type	Axial					
Fan motor	type	Inverter					
Number	no.	1	1	1	1	1	1
Air flow rate	m^3/h	2600	2600	2600	4500	4500	4500
Sound data calculated in cooling mode (3)							
Sound pressure level (1 m)	dB(A)	51,0	52,0	53,0	56,0	56,0	56,0
Sound data calculated in heating mode (3)							
Sound power level	dB(A)	64,0	64,0	65,0	69,0	69,0	69,0
Sound pressure level (1 m)	dB(A)	50,0	50,0	51,0	54,0	54,0	54,0
Power supply							
Power supply		220-240V ~ 50Hz				380-415V 3N ~ 50Hz	220-240V ~ 50Hz

		HMI120T	HMI140	HMI140T	HMI160	HMI160T
Electric data						
Rated current input (1)	A	12,0	29,0	12,0	29,0	12,0
Compressor						
Type	type	Rotary DC Inverter				
Number	no.	1	1	1	1	1
Circuits	no.	1	1	1	1	1
Refrigerant	type	R32				
Potential global heating	GWP	675 $kgCO_2eq$				
Refrigerant charge (2)	kg	2,2	2,2	2,2	2,2	2,2
Oil	Type	FW68DA				
Total oil charge	kg	1,1	1,1	1,1	1,1	1,1
System side heat exchanger						
Type	type	Brazed plate				
Number	no.	1	1	1	1	1
Connections (in/out)	Type	Gas Maschio				
Size (in)	Ø	1"				
Size (out)	Ø	1"				
Fan						
Type	type	Axial				
Fan motor	type	Inverter				
Number	no.	1	1	1	1	1
Air flow rate	m^3/h	4500	4500	4500	4500	4500
Sound data calculated in cooling mode (3)						
Sound pressure level (1 m)	dB(A)	56,0	57,0	57,0	59,0	59,0
Sound data calculated in heating mode (3)						
Sound power level	dB(A)	69,0	70,0	70,0	72,0	72,0
Sound pressure level (1 m)	dB(A)	54,0	55,0	55,0	57,0	57,0
Power supply						
Power supply		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.
(3) Sound power: calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure measured in free field (in compliance with UNI EN ISO 3744).

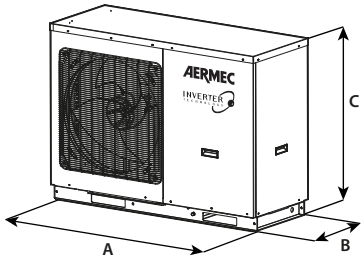
ENERGY DATA

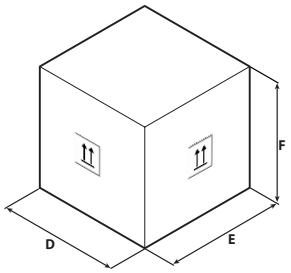
		HMI040	HMI060	HMI080	HMI100	HMI100T	HMI120
UE 811/2013 performance in average ambient conditions (average) - 35 °C - Pdesignh ≤ 70 kW (1)							
Pdesignh	kW	5	5	6	9	9	11
ηsh	%	185,00	185,00	183,00	176,00	176,00	175,00
Efficiency energy class		A+++	A+++	A+++	A+++	A+++	A+++
UE 811/2013 performance in average ambient conditions (average) - 55 °C - Pdesignh ≤ 70 kW (2)							
Pdesignh	kW	6	6	7	8	8	10
ηsh	%	126,00	126,00	127,00	128,00	128,00	126,00
Efficiency energy class		A++	A++	A++	A++	A++	A++

		HMI120T	HMI140	HMI140T	HMI160	HMI160T
UE 811/2013 performance in average ambient conditions (average) - 35 °C - Pdesignh ≤ 70 kW (1)						
Pdesignh	kW	11	11	11	13	13
ηsh	%	175,00	168,00	168,00	164,00	164,00
Efficiency energy class		A+++	A++	A++	A++	A++
UE 811/2013 performance in average ambient conditions (average) - 55 °C - Pdesignh ≤ 70 kW (2)						
Pdesignh	kW	10	11	11	13	13
ηsh	%	126,00	125,00	125,00	125,00	125,00
Efficiency energy class		A++	A++	A++	A++	A++

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

DIMENSIONS





Carton Box Example

		HMI040	HMI060	HMI080	HMI100	HMI100T	HMI120
Dimensions and weights							
A	mm	1150	1150	1150	1200	1200	1200
B	mm	345	345	345	460	460	460
C	mm	758	758	758	878	878	878
D	mm	1260	1260	1260	1295	1295	1295
E	mm	490	490	490	595	595	595
F	mm	900	900	900	1020	1020	1020
Net weight	kg	96,0	96,0	96,0	151,0	151,0	151,0
Weight for transport	kg	109,0	109,0	109,0	166,0	166,0	166,0

		HMI120T	HMI140	HMI140T	HMI160	HMI160T
Dimensions and weights						
A	mm	1200	1200	1200	1200	1200
B	mm	460	460	460	460	460
C	mm	878	878	878	878	878
D	mm	1295	1295	1295	1295	1295
E	mm	595	595	595	595	595
F	mm	1020	1020	1020	1020	1020
Net weight	kg	151,0	151,0	151,0	151,0	151,0
Weight for transport	kg	166,0	166,0	166,0	166,0	166,0

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