

HBI

Air-Water split heat pump for heating, Cooling
and production of DHW
Inverter DC Technology
Heat output from 8.5kW to 16kW



R410A

HBI_C



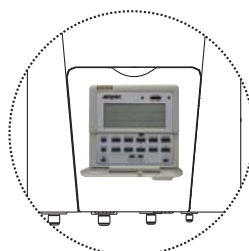
HBI_E



HBI_WT / WTS



AERMEC participates in the EUROVENT programme for: LCP/A/S/R
Check ongoing validity of certificate online: www.eurovent-certification.com



Control panel on board the machine (HBI_E)

Features

- Five sizes of HBI_C outdoor unit available
- Five sizes of HBI_E outdoor unit available (Hydronic module), for wall installation, with small dimensions
- Two sizes of DHW Storage Tank available measuring 200 to 300 litres with coil, electric resistance and any integrative coil
- R410A refrigerant gas
- Outdoor unit with one or two fans with Inverter DC motor with continuous speed variation
- The Inverter DC compressors have been selected to maximise the efficiencies, reduce consumption and minimise absorption at peak
- Microprocessor control
- Functioning mode:
 - Cooling
 - Heating
 - Domestic Hot Water Production
- Possibility of managing functioning mode priority
- Silent functioning
- Anti-legionella Cycle: function can be set via Control Panel on the HBI_E indoor unit
- Anti-freeze function for Hydronic module and DHW Storage Tank
- Indoor unit supplied (hydraulic side) with:
 - technical water filter
 - plate exchanger
 - expansion vessel (10 litres)
 - 2 step electric resistances (3kW+3kW) can be activated/deactivated
 - air vent
 - safety valve (3 bar)
 - flow switch
 - circulation pump
 - manometer
- Length of the cooling lines up to 30m, maximum level difference between outdoor unit and indoor unit 15m
- Outdoor unit supplied with Electric Resistance Kit
Base to prevent the formation of ice during heat pump functioning mode
- Indoor unit set-up for the management of:
 - 2-way valve
 - 3-way valve
 - Environmental thermostat
 - Room Temperature Probe (supplied), can be installed in the wall in a rectangular 3-module recess box (type 503)
 - Weekly Timer
 - Auto-Restart Function
 - Operational limits:
 - Cooling
Outdoor air temperature +10, 48C
 - Heating
Outdoor air temperature -20, 35C
 - Domestic Hot Water Production
Outdoor air temperature -20, 45C
 - Emergency Functioning: in the event of outdoor unit malfunctioning in Heating or DHW production mode, the electric resistances are activated
 - Condensate control device as per standard, for functioning in cooling mode with external temperature to +10°C

Accessories

- **HBI_WT:** 200, 300 litre DHW Storage Tank with main coil and 3kW electric support resistance
 - Magnesium sacrificial anode
 - Stainless steel tank and coil
 - Outdoor covering in painted sheet steel and heat insulation material, thickness 50mm
 - Indoor installation
- **HBI_WTS:** 200, 300 litre DHW Storage Tank with main coil, integrative coil and 3kW electric support resistance
 - Magnesium sacrificial anode
 - Stainless steel tank and coil
 - Outdoor covering in painted sheet steel and heat insulation material, thickness 50mm
 - Indoor installation

HBI_WT/WTS accessory compatibility (DHW storage tank)

	HBI080	HBI100	HBI120	HBI140	HBI160
HBI200WT/WTS	✓	✓	✓	✓	✓
HBI300WT/WTS	✓	✓	✓	✓	✓

Technical data

		HBI080C	HBI100C	HBI120C	HBI140C	HBI160C
Cooling capacity ¹ (nominal)	kW	9.05	10.5	14	15	15.5
Input power ¹ (nominal)	kW	2.50	3.14	3.68	4.29	4.63
EER ¹		3.62	3.34	3.8	3.5	3.35
Cooling capacity ² (nominal)	kW	6.5	8.0	10	11	11.5
Input power ² (nominal)	kW	2.50	3.08	3.45	3.93	4.6
EER ²		2.6	2.6	2.9	2.80	2.5
Heating capacity ¹ (nominal)	kW	8.5	10	12	13.5	16
Input power ¹ (nominal)	kW	2.10	2.50	2.79	3.21	3.95
COP ¹		4.00	4.00	4.3	4.2	4.00
Heating capacity ² (nominal)	kW	8.0	9.0	11.5	12.5	14
Input power ² (nominal)	kW	2.54	2.90	3.38	3.73	4.59
COP ²		3.15	3.1	3.4	3.35	3.05
Rated Input (without electric resistances) Cooling	kW	5	5	6.6	6.6	7
Rated Input (without electric resistances) Heating	kW	4.6	4.6	5.5	5.5	6

OUTDOOR UNIT

Electric Power Supply	230V ~ 50Hz					
Air flow rate	m³/h	/	/	6398	6398	6398
n°fans	n°	1	1	2	2	2
R410A Refrigerant Load	kg	2	2	3,3	3,3	3,3
♪ Sound pressure	dB(A)	57	57	57	57	60
♪ Sound pressure	dB(A)	59	59	59	59	62
Cooling connections	Liquid	Ø	9,52(3/8")	9,52(3/8")	9,52(3/8")	9,52(3/8")
	Gas	Ø	15,9(5/8")	15,9(5/8")	15,9(5/8")	15,9(5/8")
	Type	Ø			flare	

INDOOR UNIT

		HBI080E	HBI100E	HBI120E	HBI140E	HBI160E
Input Power Indoor Unit*	W	245	245	245	245	245
Pump Input Power Max	W	205	205	205	205	205
Pump Speed	n°	3	3	3	3	3
Electric resistances power **	kW	3+3	3+3	3+3	3+3	3+3
Hydraulic connections (In/Out) - (Male)	Ø	G1"	G1"	G1"	G1"	G1"
Expansion Vessel capacity	l			10		
Electric Power Supply	230V ~ 50Hz					
Outlet water temperature ¹ (range)	°C	18 + 25				
Outlet water temperature ² (range)	°C	7 + 25				
Outlet water temperature ¹ (range)	°C	25 ~ 45				
Outlet water temperature ² (range)	°C	25 ~ 55				
♪ Sound pressure	dB(A)	31				
Cooling connections	Liquid	Ø	9,52(3/8")	9,52(3/8")	9,52(3/8")	9,52(3/8")
	Gas	Ø	15,9(5/8")	15,9(5/8")	15,9(5/8")	15,9(5/8")
	Type	Ø			flare	

HBI_WT/WTS accessory technical data

Domestic Hot Water storage tank	HBI200WT		HBI200WTS		HBI300WT		HBI300WTS	
Capacity	l	200	200	200	300	300	300	300
DHW outlet temperature	°C	40 + 80 ***						
Electric Resistances Power	kW	3	3	3	3	3	3	
Electric resistance Input Power	A	13	13	13	13	13	13	
Electric Power Supply	230V ~ 50Hz							
Utility hydraulic connections (In/Out) - (Female)	Ø	G1/2"	G1/2"	G1/2"	G1/2"	G1/2"	G1/2"	
Main coil hydraulic connections (In/Out) - (Female)	Ø	G3/4"	G3/4"	G3/4"	G3/4"	G3/4"	G3/4"	
Integrative coil hydraulic connections (In/Out) - (Female)	Ø	-	G3/4"	-	-	G3/4"	-	
Integrative coil	L	m	-	10	-	-	10	
	Ø x s	mm	-	22 x 0,8	-	-	22 x 0,8	

■ DHW outlet temperature

* Pump - Input Power Max + Auxiliary

** Electric resistances 2 step ON/OFF control panel

*** With electric resistances/without electric resistances 40 + 50°C

1- Floor system

■ Cooling:

- Inlet/outlet water temperature 23°C / 18°C
- External air temperature 35°C D.B. / 24°C W.B.

1- Floor system

■ Heating (without electric resistances):

- Inlet/outlet water temperature 30°C / 35°C
- External air temperature 7°C D.B. / 6°C W.B.

2- Fancoil

■ Cooling:

- Inlet/outlet water temperature 12°C / 7°C
- External air temperature 35°C D.B. / 24°C W.B.

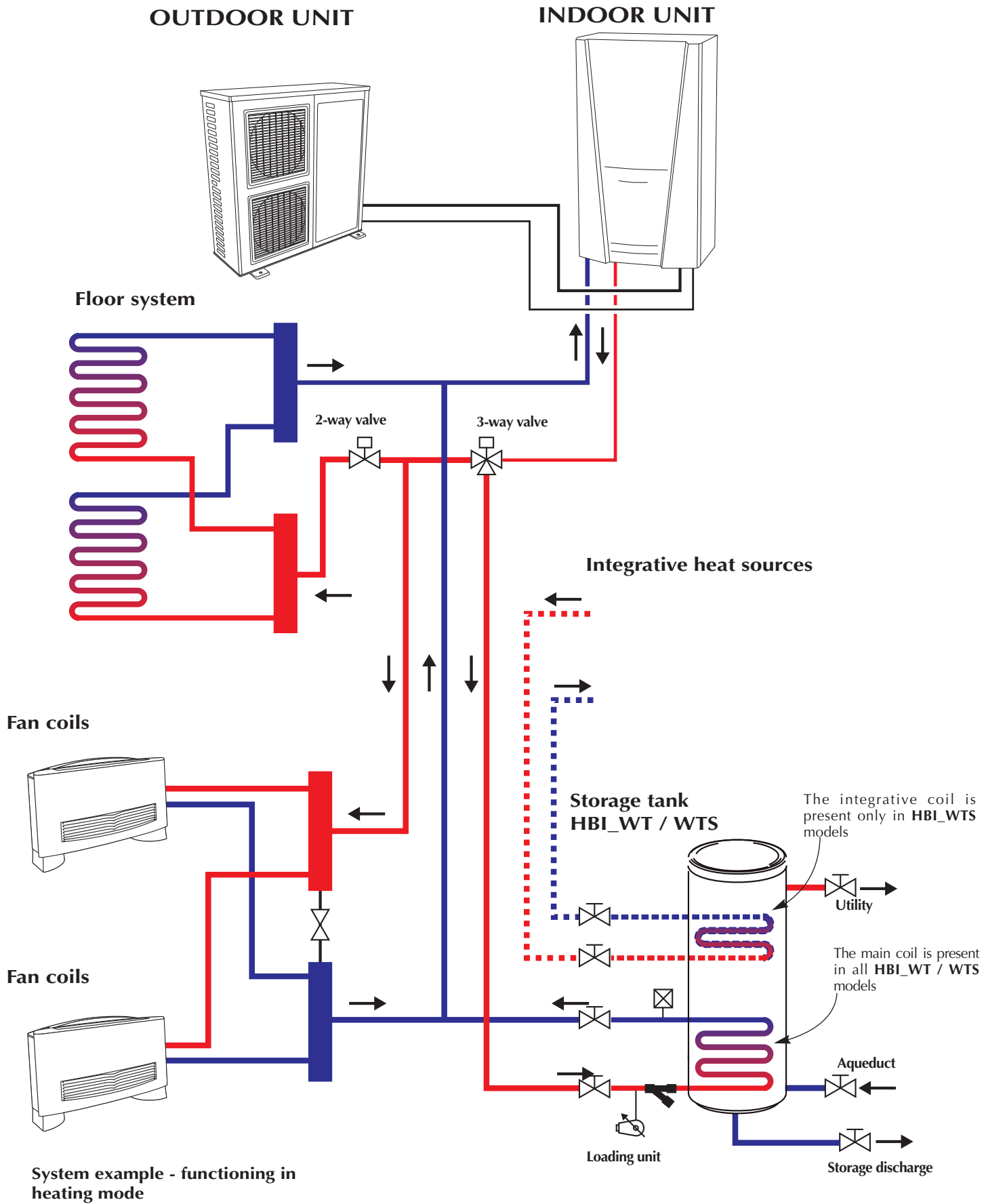
2- Fancoil

■ Heating (without electric resistances):

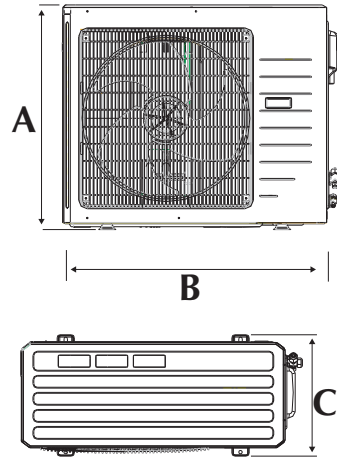
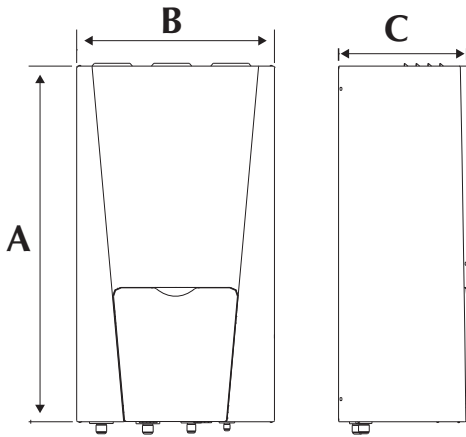
- Inlet/outlet water temperature 40°C / 45°C
- External air temperature 7°C D.B. / 6°C W.B.

♪ measured at 1m in semianechoic chamber

♪♪ measured at 1,4m in semianechoic chamber



Dimensional data

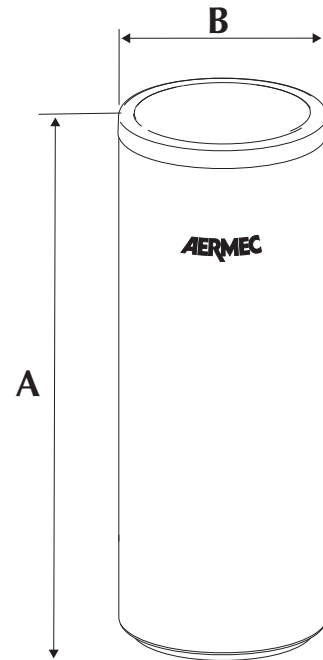
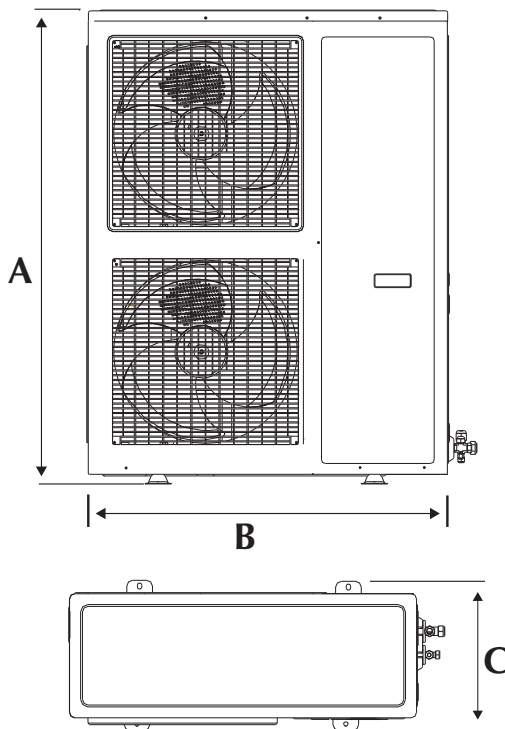


Indoor unit

Dimensions		HBI080E	HBI100E	HBI120E	HBI140E	HBI160E
Height (A)	mm	900	900	900	900	900
Width (B)	mm	500	500	500	500	500
Depth (C)	mm	324	324	324	324	324
Net weight	kg	52	52	53	53	53
Gross weight	kg	62	62	63	63	63

Outdoor unit

Dimensions		HBI080C	HBI100C
Height (A)	mm	791	791
Width (B)	mm	921	921
Depth (C)	mm	427	427
Net weight	kg	69	69
Gross weight	kg	74	74



Outdoor unit

Dimensions		HBI120C	HBI140C	HBI160C
Height (A)	mm	1253	1253	1253
Width (B)	mm	950	950	950
Depth (C)	mm	412	412	412
Net weight	kg	99	99	99
Gross weight	kg	108	108	108

Storage Tank

Dimensions		HBI200WT / WTS	HBI300WT / WTS
Height (A)	mm	1595	1620
Width (B)	mm	540	620
* Net weight	kg	68 / 71	82 / 87
Gross weight	kg	77 / 80	92 / 97

* Weight when empty

The technical data given on this documentation is not binding. Aermec S.p.A. reserves the right to apply at any time all the modifications deemed necessary for improving the product.

Aermec S.p.A.
Via Roma, 996 - 37040 Bevilacqua (VR) - Italy
Tel. 0442633111 - Telefax 044293730
www.aermec.com

Numero Verde
800-843085