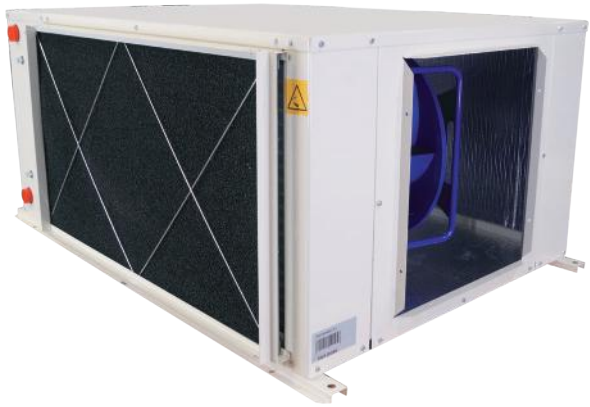
VERNE HE
WATER-AIR SERIES BY HITECSA

WPHBA HE
Heat pump
WPHA HE
Cooling only



COMPACT CONFIGURATION
Horizontal | Plates

Robust and adaptable solutions for installations with an energy loop

Autonomous horizontal units equipped with water-cooled plate condensers, suitable for connection to a network of air distribution ducts.

MAIN FEATURES

- Maximum cooling capacities ranging from 2.4 to 41 kW
- Plate condenser
- Airflows of up to 7,000 m^3/h
- Plate heat exchanger
- Scroll compressors (from model 351)
- R-410A refrigerant
- Thermal insulation M1
- Plug fan as standard

ADVANTAGES

- High energy performance
- Compact and resistant construction
- Easy access to inside the unit for maintenance purposes
- The design and layout of the components offers high versatility to adapt to each type of installation

AVAILABLE VERSIONS

- Heat pump
- Cooling only

APPLICATIONS

- Discreet solution for centralised installations with closed water loop. Designed to be installed inside the building to be air-conditioned, they are characterised by offering great flexibility in the installation
- Shopping centres, dwellings, offices and commercial premises

REGULATION

Control as standard: **TH TUNE**

Optional control: **PGD**

Optional control: **MINI PGD**

See regulation and control on page 16.

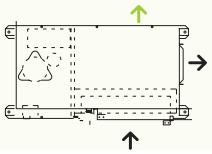
WPHBA HE / WPHA HE SERIES

MODEL		091	121	141	171
Nominal cooling capacity (1)	kW	2.44	3.26	3.93	4.86
Nominal heating capacity (2)	kW	2.83	3.87	4.72	5.56
Total power input, cooling (1)	kW	0.72	0.97	1.12	1.14
Total power input, heating (2)	kW	0.78	1.05	1.31	1.26
EER / COP (3)		3.12 / 3.56	3.15 / 3.69	3.39 / 3.59	4.05 / 4.41
ηs, c (4)	%	139.8	146.7	144.6	174.2
ηs, h (5)	%	106.7	120.8	111.5	143.4
Power supply (50 Hz ~)	V	230.1	230.1	230.1	230.1
Gas charge (kg)	kg	0.5	0.6	0.7	1.1
Airflow - static pressure (6)	m^3/h - Pa	500 - 25	600 - 25	700 - 54	900 - 25
Water flow	m^3/h	0.50	0.68	0.83	0.99
Thread water connections GAS	Ø (")	3/4	3/4	3/4	3/4
Dimensions (length x width x height)	mm	1,055 x 560 x 410	1,055 x 560 x 410	1,055 x 560 x 410	1,055 x 560 x 470
Net weight	kg	60	62	65	75
MODEL		**201**	**251**	**351**	**401**
Nominal cooling capacity (1)	kW	5.91	7.55	11.50	13.30
Nominal heating capacity (2)	kW	7.11	9.23	14.15	16.36
Total power input, cooling (1)	kW	1.58	1.84	2.87	3.31
Total power input, heating (2)	kW	1.79	1.86	3.10	3.60
EER / COP (3)		3.51 / 3.97	3.96 / 4.95	3.78 / 4.56	3.80 / 4.54
ηs, c (4)	%	161.2	177.2	175.1	174.6
ηs, h (5)	%	130.7	144	112.9	142.8
Power supply (50 Hz ~)	V	230.1	230.1	400.3 + N	400.3 + N
Gas charge (kg)	kg	1.2	2.3	2.5	2.8
Airflow - static pressure (6)	m^3/h - Pa	1,100 - 25	1,500 - 37	2,000 - 37	2,300 - 60
Water flow	m^3/h	1.23	1.56	2.41	2.78
Thread water connections GAS	Ø (")	3/4	3/4	3/4	3/4
Dimensions (length x width x height)	mm	1,055 x 560 x 470	1,135 x 670 x 530	1,135 x 670 x 530	1,135 x 670 x 530
Net weight	kg	77	90	110	115

MODEL		501	701	751	1001	1201
Nominal cooling capacity (1)	kW	16.90	20.36	25.93	35.40	41.06
Nominal heating capacity (2)	kW	18.89	23.07	30.60	39.82	46.41
Total power input, cooling (1)	kW	3.37	4.26	5.85	7.52	8.90
Total power input, heating (2)	kW	3.96	4.94	7.01	8.37	10.10
EER / COP (3)		4.70 / 4.77	4.44 / 4.68	4.12 / 4.37	4.36 / 4.76	4.32 / 4.60
ηs, c (4)	%	219.8	208	197.7	203.3	201.1
ηs, h (5)	%	158.6	154.9	144.7	146.3	144.6
Power supply (50 Hz ~)	V	400.3 + N	400.3 + N	400.3 + N	400.3 + N	400.3 + N
Gas charge (kg)	kg	3.2	3.6	4.2	5	6.3
Airflow - static pressure (6)	m^3/h - Pa	2,800 - 50	3,400 - 50	4,300 - 62	6,200 - 75	7,000 - 75
Water flow	m^3/h	3.41	4.13	5.32	7.18	8.39
Thread water connections GAS	Ø (")	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
Dimensions (length x width x height)	mm	1,385 x 940 x 620	1,385 x 940 x 620	1,385 x 940 x 620	1,930 x 1.040 x 690	1,930 x 1.040 x 690
Net weight	kg	160	160	180	230	250

(1) Dry air temperature 27 ºC. Indoor wet air temperature 19 ºC. Water inlet temperature 30 ºC, water outlet 35 ºC.
(2) Dry air temperature 20 ºC. Indoor wet air temperature 14 ºC. Water inlet temperature 20 ºC.
(3) Calculated in accordance with standard EN 14511:2013
(4) Air return 27/19ºC. Water inlet 10°C / Water outlet 15°C.
(5) Air return 20ºC. Water inlet 10ºC / Water outlet 15ºC.
(6) Static pressure with centrifugal fan (optional). Consult pressures with plug fan (standard).

POSSIBLE AIR INLET/OUTLET CONFIGURATIONS



→ Standard
→ Optional

AVAILABLE OPTIONAL FEATURES

ENERGY SAVING

- Compressor soft-start (depending on models)
- Fan soft-start (depending on models)

AIR QUALITY

- Gravimetric filter in return G4
- Opacimetric filter in return class F6 or F9

NOISE LEVEL

- Double thermo-acoustic insulation
- Compressor acoustic insulation

UNIT INSTALLATION

- Magneto-thermal switches in the electrical panel
- Power supply at 60 Hz and voltages of 230, 208, etc.
- Rear air discharge
- Electrovalves to shut off the water
- Kit for outdoor installation (upon request)
- Thermal insulation Euroclass A1 (M0)
- Uprated motors
- Water-regulating pressostatic valve
- Back-up coils for hot water
- Fireproof filter M1
- Auxiliary electric heater
- Anti-corrosion treated coils
- Flow switch
- Centrifugal fan

MAINTENANCE

- Service valves
- External pressure taps

REGULATION AND CONTROL

- PGD and Mini PGD thermostat
- Remote run/stop
- Ambient temperature or wall-mounted sensor
- Return temperature sensor in duct
- Operation without neutral
- Scheduling function and ModBus connection, etc. (refer to the Thermostats chapter)

As well as these options, please check with our Commercial Department for any other configuration or function not described as available.