WPVBZ HE
Heat pump
WPVZ HE
Cooling only

COMPACT CONFIGURATION
Vertical | Plates

Robust and adaptable solutions for installations with an energy loop

Autonomous vertical units equipped with water-cooled plate heat exchangers (one or two depending on the model), suitable for connection to a network of air distribution ducts.

MAIN FEATURES

- Maximum cooling capacities ranging from 8.1 to 132 kW
- Plate condenser
- Airflows of up to 21,500 m^3/h
- Plug fan as standard

AVAILABLE VERSIONS

- Heat pump
- Cooling only

ADVANTAGES

- Easy access to inside the unit for maintenance purposes

APPLICATIONS

- Designed to be installed inside the building to be air-conditioned, they are characterised by offering great flexibility in the installation
- Climate control through air ducts for commercial premises, offices, small supermarkets

REGULATION

Control as standard: **TH TUNE**

Optional control: **PGD**

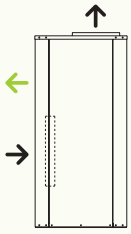
Optional control: **MINI PGD**

See regulation and control on page 16.

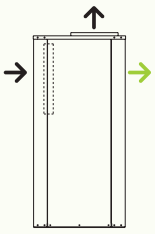
POSSIBLE AIR INLET/OUTLET CONFIGURATIONS

→ Standard
→ Optional

WPVZ HE 201-751



WPVZ/BZ HE 1001-4002



AVAILABLE OPTIONAL FEATURES

ENERGY SAVING

- Option of mixing module for freecooling with two and three dampers
- Thermal or enthalpy regulation with µPC control card and PGD control
- 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 to F9 (combinable with a G4 or Fx+Fy)

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.
- Option of manufacturing units with symmetric configuration
- Kit for outdoor installation
- Uprated motors
- Class M0 thermo-acoustic insulation
- Return nozzle filter
- Water differential pressure switch
- Intake grille
- Without water condenser
- Water-regulating pressostatic valve
- Rear discharge (mod. 1001-4002)
- Front discharge (mod. 201-751)
- Discharge plenum
- Fireproof filter class M1
- Thermal insulation Euroclass A1 (M0)
- Hot gas bypass
- Heating coils for hot water
- Auxiliary electric heater
- Anti-corrosion treated coils
- Prepared for disassembly
- Centrifugal fan

MAINTENANCE

- Service valves
- External pressure taps
- Detector of dirty filters
- Split filter

REGULATION AND CONTROL

- PGD and Mini PGD thermostat
- Alarm signalling
- Smoke detection
- Remote run/stop
- Separate electrical panel
- Option for master-slave operation
- Unit without thermostat
- Ambient temperature or wall-mounted sensor
- Return temperature sensor in duct
- Operation for redundant machine
- Centralised comprehensive management operation
- 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.

WPVBZ HE / WPVZ HE SERIES

MODEL		251	351	401	501
Nominal cooling capacity (1)	kW	8	12	13.4	16.6
Nominal heating capacity (2)	kW	9.6	14.0	15.8	19.6
Total power input, cooling (1)	kW	1.9	2.6	4.3	4.8
Total power input, heating (2)	kW	1.8	2.5	4.49	4.9
EER / COP (3)		2.93 / 3.55	3.05 / 3.58	2.96 / 3.48	3.25 / 3.78
ηs, c (4)	%	133.2	141.8	138	147.2
ηs, h (5)	%	116.5	113.6	109.6	117.5
Power supply (50 Hz ~)	V	230.1	230.1 or 400.3+N	400.3 + N	400.3 + N
Gas charge	kg	1.5	2.1	3.4	4
Airflow - static pressure (6)	m^3/h - Pa	2,000 - 55	2,300 - 86	2,400 - 94	3,500 - 70
Water connections	Ø (")	3/4	1	1	1 1/4
Dimensions (length x width x height)	mm	720 x 650 x 1.230	720 x 650 x 1.230	780 x 650 x 1.380	1,140 x 700 x 1.730
Net weight	kg	130	130	165	300

MODEL		701	751	1001	1201
Nominal cooling capacity (1)	kW	21	25.5	35.4	42
Nominal heating capacity (2)	kW	24.8	30.1	41.8	49.6
Total power input, cooling (1)	kW	6.4	8.3	11.0	13.4
Total power input, heating (2)	kW	6.6	8.6	11.3	13.8
EER / COP (3)		3.04 / 3.63	2.86 / 3.41	2.98 / 3.56	2.90 / 3.46
ηs, c (4)	%	137.1	128	137.1	137
ηs, h (5)	%	114	110.2	110.1	110.7
Power supply (50 Hz ~)	V	400.3 + N	400.3 + N	400.3 + N	400.3 + N
Gas charge	kg	4.2	5	6.5	7
Airflow - static pressure (6)	m^3/h - Pa	4,300 - 80	4,800 - 100	7,400 - 70	8,200 - 80
Water connections	Ø (")	1 1/4	1 1/2	1 1/2	1 1/2
Dimensions (length x width x height)	mm	1,140 x 700 x 1.730	1,140 x 700 x 1.730	1,790 x 870 x 1.630	1,790 x 870 x 1.630
Net weight	kg	351	354	400	515

MODEL		1501	2002	2402	3002	4002
Nominal cooling capacity (1)	kW	54	70.8	84	108	132
Nominal heating capacity (2)	kW	63.7	83.5	99.1	127.4	155.8
Total power input, cooling (1)	kW	15.9	22.6	26.5	35.0	43.0
Total power input, heating (2)	kW	16.4	23.3	27.3	36.0	44.3
EER / COP (3)		3.18 / 3.75	3.09 / 3.58	3.07 / 3.58	3.16 / 3.61	2.93 / 3.46
ηs, c (4)	%	150.7	147.2	148.1	150.3	134.4
ηs, h (5)	%	119.8	116.9	113.9	115.8	106.5
Power supply (50 Hz ~)	V	400.3 + N	400.3 + N	400.3 + N	400.3 + N	400.3 + N
Gas charge	kg	7.5	2 x 3.6	2 x 4	2 x 5	2 x 5.8
Airflow - static pressure (6)	m^3/h - Pa	9,000 - 110	11,000 - 190	12,000 - 190	18,000 - 270	21,500 - 190
Water connections	Ø (")	2	1 1/2	1 1/2	2	2
Dimensions (length x width x height)	mm	1,790 x 870 x 1.630	1,790 x 980 x 1.980	1,790 x 980 x 1.980	2,404 x 1.157 x 2.122	2,404 x 1.157 x 2.122
Net weight	kg	645	685	706	968	1,060

(1) Dry air temperature 27 0C. Indoor wet air temperature 19 0C. Water inlet temperature 30 0C, Water outlet 35 0C.
(2) Dry air temperature 20 0C. Indoor wet air temperature 14 0C. Water inlet temperature 16 0C.
(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).