



WCVBZ HE

Heat pump

WCVZ HE

Cooling only



COMPACT CONFIGURATION
Vertical | Coaxial

Robust and adaptable solutions for installations with an energy loop

Autonomous compact vertical units equipped with a water-cooled coaxial condenser, suitable for connection to a network of distribution ducts.

MAIN FEATURES

- Maximum cooling capacities ranging from 6 to 120 kW
- Coaxial condenser
- Airflows up to 21,500 m³/h
- Plug fan as standard

AVAILABLE VERSIONS

- Heat pump
- Cooling only

ADVANTAGES

- Robustness against water impurities
- Easy access to inside the unit for maintenance purposes
- Reduced dimensions

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

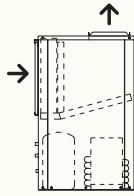


See regulation and control on page 16.

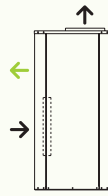
POSSIBLE AIR INLET/OUTLET CONFIGURATIONS

→ Standard
→ Optional

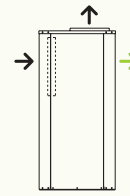
WCVBZ HE 201-351



WCVZ HE 201-751
WCVBZ HE 401



WCVZ HE 1001-3603



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.
- Kit for outdoor installation
- Uprated motors
- Anti-freeze trace heater for condensate
- Hot gas bypass
- Pressostatic valve
- Heating coils for hot water (only WCVZ models – cooling only)
- Auxiliary electric heater
- Anti-corrosion treated coils
- Front discharge (mod. 201/751)
- Rear discharge (mod. 1001/3603)
- Without water condenser
- Sea water condenser
- Without compressor
- Discharge plenum
- Intake grille
- Fireproof filter class M1

- Thermal insulation Euroclass A1 (M0)
- Return nozzle filter
- Base guides
- Pressure gauges
- Water differential pressure switch
- 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.

WCVBZ HE SERIES Heat pump

MODEL		201	251	351	401
Nominal cooling capacity (1)	kW	6	8.1	11	13
Nominal heating capacity (2)	kW	6.9	9.1	12.6	16
Total power input, cooling (1)	kW	1.85	2.55	3.40	3.95
Total power input, heating (2)	kW	1.75	2.45	3.29	3.90
EER / COP (3)		3.2 / 3.9	3.2 / 3.7	3.2 / 3.8	3.3 / 4.1
η_s , c (4)	%	134.75	120.12	133.54	139.36
η_s , h (5)	%	127.9	114.8	121.8	126.7
Power supply (50 Hz -)	V	230.1	230.1 or 400.3+N	230.1-230.3 or 400.3+N	230.3 or 400.3+N
Gas charge	kg	1.05	1.25	1.6	2.6
Water connections	Ø (")	1/2	1/2	1/2	1/2
Airflow - static pressure (6)	m ³ /h - Pa	1,500 - 58	2,000 - 55	2,300 - 86	2,400 - 94
Dimensions (length x width x height)	mm	601 x 625 x 1.000	601 x 625 x 1.000	601 x 625 x 1.000	780 x 550 x 1.350
Net weight	kg	105	134	141	155

WCVZ HE SERIES Cooling only

MODEL		201	251	271	351	401	501
Nominal cooling capacity (1)	kW	6.4	8.1	9.0	11.9	13.4	16.6
Total power input, cooling (1)	kW	1.76	2.24	2.46	3.25	3.60	4.51
EER (3)		3.6	3.6	3.7	3.7	3.7	3.7
η_s , c (4)	%	160.05	156.1	147.89	158.18	164.53	172.37
Power supply (50 Hz -)	V	230.1	230.1	230.1 or 400.3+N	230.1-230.3 or 400.3+N	230.3 or 400.3+N	230.3 or 400.3+N
Gas charge	kg	1.1	1.3	1.3	1.4	2.4	2.7
Airflow - static pressure (6)	m ³ /h - Pa	1,500 - 58	2,000 - 55	2,000 - 77	2,300 - 86	2,400 - 94	3,500 - 70
Water connections	Ø (")	1/2	1/2	1/2	1/2	1/2	3/4
Dimensions (length x width x height)	mm	628 x 440 x 1.060	720 x 550 x 1.200	720 x 550 x 1.200	720 x 550 x 1.200	780 x 550 x 1.350	1,140 x 600 x 1.700
Net weight	kg	105	134	134	141	155	315
MODEL		701	721	751	1001	1201	1002
Nominal cooling capacity (1)	kW	20.6	23.0	25.1	35.4	40.5	35.6
Total power input, cooling (1)	kW	5.36	5.94	6.32	9.79	11.20	9.74
EER (3)		3.8	3.9	4.0	3.6	3.6	3.7
η_s , c (4)	%	165.33	166.87	164.67	156.24	159.39	171.05
Power supply (50 Hz -)	V	400.3 + N	230.3 or 400.3+N	230.3 or 400.3+N	230.3 or 400.3+N	230.3 or 400.3+N	230.3 or 400.3+N
Gas charge	kg	2.8	2.8	3.9	5.3	5.5	2 x 2.7
Airflow - static pressure (6)	m ³ /h - Pa	4,300 - 80	4,500 - 75	4,800 - 100	7,400 - 70	8,200 - 80	7,300 - 87
Water connections	Ø (")	1	1	1	2	2	2
Dimensions (length x width x height)	mm	1,140 x 600 x 1.700	1,140 x 600 x 1.700	1,140 x 600 x 1.700	1,700 x 870 x 1.592	1,700 x 870 x 1.592	1,700 x 870 x 1.600
Net weight	kg	351	351	354	390	538	530
MODEL		1402	1502	2002	2402	3003	3603
Nominal cooling capacity (1)	kW	41.2	50.2	70.8	81.0	105.0	120.0
Total power input, cooling (1)	kW	11.3	13.69	19.67	22.4	28.94	33.33
EER (3)		3.6	3.7	3.6	3.6	3.6	3.6
η_s , c (4)	%	160.45	166.01	176.33	177.87	189.64	159.97
Power supply (50 Hz -)	V	230.3 or 400.3+N	230.3 or 400.3+N	230.3 or 400.3+N	230.3 or 400.3+N	230.3 or 400.3+N	230.3 or 400.3+N
Gas charge	kg	2 x 2.8	2 x 3.9	2 x 5.3	2 x 5.5	3 x 5.3	3 x 5.5
Airflow - static pressure (6)	m ³ /h - Pa	8,200 - 80	9,000 - 110	11,000 - 190	12,000 - 190	18,000 - 270	21,500 - 190
Water connections	Ø (")	2	2	2	2	2	2
Dimensions (length x width x height)	mm	1,700 x 870 x 1.600	1,700 x 870 x 1.600	1,700 x 980 x 1.950	1,700 x 980 x 1.950	2,307 x 1.157 x 2.063	2,307 x 1.157 x 2.063
Net weight	kg	630	685	645	706	968	1,060

(1) Dry air temperature 27 °C. Indoor wet air temperature 19 °C. Water inlet temperature 30 °C, Water outlet 35 °C.

(2) Dry air temperature 20 °C. Indoor wet air temperature 14 °C. Water inlet temperature 16 °C.

(3) Calculated in accordance with standard EN 14511:2013

(4) Air return 27/19°C. Water inlet 10°C / Water outlet 15°C.

(5) Air return 20°C. Water inlet 10°C / Water outlet 15°C.

(6) Static pressure with centrifugal fan (optional). Consult pressures with plug fan (standard).