

WCHBZ HE

Heat pump

WCHZ HE

Cooling only



COMPACT CONFIGURATION
Horizontal | Coaxial

Robust and adaptable solutions for installations with an energy loop

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

MAIN FEATURES

- Maximum cooling capacities ranging from 6.4 to 25.1 kW
- Coaxial condenser
- Airflows up to 4,600 m³/h
- Heating capacities ranging from 6.0 to 16.5 kW
- 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
- The design and layout of the components offers high versatility to adapt to each type of installation

APPLICATIONS

- 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
- For special applications such as, for example, climate-control in boats, check with our technical staff

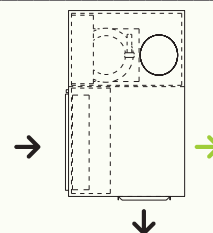
REGULATION

Control as standard: **TH TUNE** Optional control: **PGD** Optional control: **MINI PGD**



See regulation and control on page 16.

POSSIBLE CONFIGURATIONS / AIR INLET



→ Standard
 → Optional

WCHBZ HE SERIES *Heat pump*

MODEL		201	251	351	401	501
Nominal cooling capacity (1)	kW	6.0	8.1	11.1	13.0	16.5
Nominal heating capacity (2)	kW	6.9	9.1	12.6	16.0	19.6
Total power input, cooling (1)	kW	1.9	2.6	3.5	4.25	5.1
Total power input, heating (2)	kW	1.8	2.5	3.3	4.15	4.95
EER / COP (3)		3.2 / 3.8	3.1 / 3.6	3.2 / 3.8	3.1 / 3.9	3.2 / 4.0
$\eta_{s,c}$ (4)	%	132.55	119.39	131.98	131.04	140.61
$\eta_{s,h}$ (5)	%	125.3	114.3	121.9	119.1	124.2
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	230.3 or 400.3+N
Gas charge	kg	1.3	1.5	1.6	1.7	2.75
Airflow - static pressure (6)	m ³ /h - Pa	1,500 - 58	2,000 - 77	2,300 - 86	2,400 - 94	3,500 - 70
Water connections	Ø (")	1/2	1/2	1/2	3/4	3/4
Dimensions (length x width x height)	mm	1,080 x 657 x 484	1,200 x 750 x 484	1,200 x 750 x 484	1,280 x 850 x 542	1,400 x 900 x 542
Net weight	kg	104	130	130	160	166

WCHZ HE SERIES *Cooling only*

MODEL		201	251	271	351	401
Nominal cooling capacity (1)	kW	6.4	8.1	9.0	11.3	13.4
Total power input, cooling (1)	kW	2.1	2.7	2.8	3.3	4.4
EER (3)		3.1	3.0	3.2	3.4	3.0
$\eta_{s,c}$ (4)	%	135.63	130	130.42	146.02	134.47
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
Gas charge	kg	1.1	1.3	1.3	1.4	2.4
Airflow - static pressure (6)	m ³ /h - Pa	1,500 - 58	1,600 - 81	2,000 - 77	2,300 - 86	2,400 - 94
Water connections	Ø (")	1/2	1/2	1/2	1/2	3/4
Dimensions (length x width x height)	mm	990 x 520 x 425	1,080 x 657 x 484	1,200 x 750 x 484	1,200 x 750 x 514	1,280 x 850 x 542
Net weight	kg	87	104	123	130	135
MODEL		501	701	721	751	
Nominal cooling capacity (1)	kW	16.0	20.6	22.2	25.1	
Total power input, cooling (1)	kW	5.2	6.6	6.2	7.7	
EER (3)		3.1	3.1	3.6	3.3	
$\eta_{s,c}$ (4)	%	148.94	136.18	152.24	144.98	
Power supply (50 Hz ~)	V	230.3 or 400.3+N	400.3 + N	230.3 or 400.3+N	230.3 or 400.3+N	
Gas charge	kg	2.7	2.8	2.8	3.9	
Airflow - static pressure (6)	m ³ /h - Pa	3,500 - 70	4,300 - 80	4,500 - 75	4,600 - 80	
Water connections	Ø (")	3/4	1	1	1	
Dimensions (length x width x height)	mm	1,400 x 900 x 542	1,550 x 1.000 x 630	1,550 x 1.000 x 630	1,550 x 1.030 x 630	
Net weight	kg	160	240	259	259	

(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).

AVAILABLE OPTIONAL FEATURES

ENERGY SAVING

- Option of mixing module for freecooling with two and three dampers (depending on models)
- Thermal or enthalpy regulation with μ PC 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

- Water differential pressure switch
- 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
- Inverted intake or discharge
- Base guides
- Heating coils for hot water
- Auxiliary electric heater
- Fireproof filter class M1
- Thermal insulation Euroclass A1 (M0)
- Anti-corrosion treated coils
- Sea water condenser
- Without water condenser
- Centrifugal fan

MAINTENANCE

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

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.