

Packaged air-conditioning unit

Reversible heat pump
 Water cooled
 Horizontal indoor installation
 Ductable
Capacity from 8 to 33 kW



HID-P1 room thermostat for remote wall mounting.
 Main functions:
 - manual or automatic summer/winter selection
 - temperature setting
 - ECO mode (automatic day/night heat regulation).

VERSATEMP

The single-compressor **CH** units come in 10 sizes with a complete set of accessories and are distinguished by their high efficiency and low noise.

They are intended for air-conditioning shops, shopping areas in general, openspace offices, etc. They are **applied in closed loop (WLHP)** or, more generally, in open loop **water systems**.

They are ceiling-mounted, either exposed or inserted inside a suspended ceiling. Installation is simple also thanks to the reduced size and maintenance is easy to carry out thanks to the full accessibility of all the parts from just one side. The conditioned air is distributed via ductwork, while the air intake can be either direct from the room or ducted.

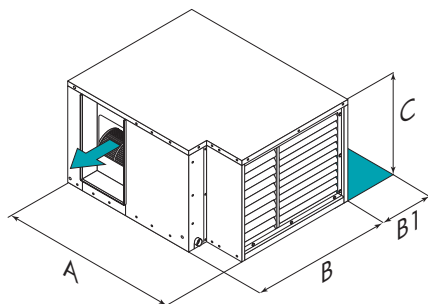
The automatic mode of operation ensures comfort throughout the year, whether heating or cooling, without seasonal switching over. Microprocessor regulation also allows other important functions of control and regulation to be carried out that may all be transferred to a remote unit or BMS through a serial communication line.

WLHP

functions and features



dimensions and clearances



Size – CH		21	25	31	41	51	61	71	81	91	101
A - Length	mm	1150	1150	1385	1385	1385	1458	1458	1458	1458	1458
B - Width	mm	820	820	1002	1002	1002	1164	1164	1375	1375	1375
C - Height	mm	520	520	635	635	635	635	635	760	760	760
B1	mm	500	500	500	500	500	500	500	500	500	500
Operating weight	kg	132	140	200	212	215	250	260	290	295	305

The above mentioned data are referred to standard units for the constructive configurations indicated. For all the other configurations, refer to the relative Technical Bulletin.

CAUTION! For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

versions and configurations

APPLICATION:

- ▶ **W** Water Loop Heat Pump application (Standard)
- ▶ **PW** Once-through water application

▶ **G** Geothermal application

technical data

Size – CH			21	25	31	41	51	61	71	81	91	101
▶ Cooling capacity	(1)	kW	8,10	9,60	11,3	14,2	17,0	20,4	22,4	26,4	28,8	32,7
Sensible capacity	(1)	kW	6,10	6,60	7,60	9,40	11,0	13,2	14,3	16,9	18,5	20,4
Compressor power input	(1)	kW	1,70	2,00	2,40	3,00	4,10	4,30	4,70	5,80	6,60	7,10
▶ Heating capacity	(2)	kW	9,20	10,7	13,2	16,0	19,2	23,2	25,8	30,6	33,7	38,9
Compressor power input		kW	1,70	2,10	2,40	2,90	3,70	4,50	5,10	6,00	6,80	8,10
Refrigerant circuits		Nr	1	1	1	1	1	1	1	1	1	1
No. of compressors		Nr	1	1	1	1	1	1	1	1	1	1
Type of compressors		-	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Supply air flow rate		l/s	486	583	694	847	1028	1236	1389	1556	1722	1944
Type of supply fan	(3)	-	CFG	CFG	CFG	CFG	CFG	CFG	CFG	CFG	CFG	CFG
Number of supply fans		Nr	1	1	1	1	1	1	1	1	1	1
Max. static pressure supply fan		Pa	150	150	150	150	150	150	150	150	150	150
Water flow rate (Source Side)		l/s	0,40	0,50	0,60	0,70	0,80	1,00	1,10	1,30	1,40	1,60
Standard power supply		V	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Sound pressure level	(4)	dB(A)	55	57	55	58	61	57	59	56	58	59

Notes

- (1) Ambient temperature 27°C/19.5 WB; Exchanger inlet water 29°C; Exchanger water outlet 35°C
- (2) Ambient temperature 20°C; Exchanger water outlet 10°C
- (3) CFG = centrifugal fan
- (4) The sound levels refer to the unit at full load, in the rated test conditions. The sound pressure level refers to a distance of 1m from the external surface of the units operating in an open field.

accessories

- ▶ **MMFM** Larger outlet electric fan motor
- ▶ **PSAF** Differential pressure switch for dirty air filters
- ▶ **IVW** Water side motorized valve
- ▶ **IVMW** Water side modulating valve
- ▶ **VHPRE** Set up for motorized valve
- ▶ **IHMA** Manual shut-off valve
- ▶ **BPH20X** Shut-off valve for by-pass (water side)
- ▶ **IFW** Water steel mesh strainer
- ▶ **PTAI** Return air temperature probe
- ▶ **SP1** RS485 remote communication serial port
- ▶ **CLSE** Free contacts for alarm
- ▶ **ACIE** Internal exchanger anti-ice protection heater
- **PBLC1X** Service keypad (cable from 1,5 metres)
- **PBLC2X** Local control portable keypad with cable 20 metres
- **PRMX** Air discharge plenum

Key to symbols:

- Accessories supplied separately.