

CHA/CL 18÷71

AIRCOOLED LIQUID CHILLERS AND HEAT PUMPS WITH AXIAL FANS, ROTARY/SCROLL COMPRESSORS, PLATE EXCHANGERS AND PUMP KIT.

FROM 5 kW TO 17 kW.



UNIT DESCRIPTION

The Compact Line series is the perfect choice if you require the highest level of comfort in residential, commercial and city environments.

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A small terrace or balcony, that's all the CHA/CL series needs in terms of space; installed on the building's front, it will go almost unnoticed; small, compact and smart with a peraluman body free from corrosion over long periods of time.

It is the ideal outside unit, offering small size and a built-in hydraulic circuit fully equipped and optimized, ready for installation.

Advanced technological solutions have also allowed to achieve the lowest noise operating levels; your neighbours will no longer complain, they will just envy you!

COMPACT —Line—



VERSIONS

CHA/CL

Cooling only with tank and pump

CHA/CL/WP

Reversible heat pump with tank and pump

FEATURES

- Structure with supporting frame, in peraluman, galvanized sheet and with rubber shock absorbers on the frame.
- Rotary/Scroll compressor complete with overload protection (klixon) embedded in the motor and crankcase, if needed.
- Axial fan type low ventilation and special wing profile, they are directly coupled to external rotor motors.
- Condenser in copper tubes and aluminium finned coil, complete with drain pan for WP version.
- Evaporator in AISI 316 stainless steel brazewelded plates type, built-in the storage tank.
- R407C refrigerant.
- Electrical panel. Includes: main switch with door lock device, fuses, compressor contact and pump contact (41÷71).
- Microprocessor control and regulation system.
- Electronic proportional device to decrease the sound level, with a continuous regulation of the fan speed. This device allows also the cooling functioning of the unit by external temperature till -20°C.
- Water circuit includes: water differential pressure switch, insulated tank, circulator or pump, safety valve, gauge and expansion vessel inserted in the storage tank.

ACCESSORIES

Loose accessories:

- | | |
|----|-------------------------------|
| PB | Low pressure switch |
| CR | Remote control panel |
| IS | RS 485 serial interface |
| RP | Metallic guards for condenser |



CHA/CL			18	21	25	31	41	51	61	71
Cooling	Cooling capacity (1)	kW	4,6	6,0	7,1	8,4	10,1	12,3	14,8	17,5
	Absorbed power (1)	kW	1,5	1,9	2,3	2,7	3,2	3,9	4,8	5,7
Heating	Heating capacity (2)	kW	5,5	7,6	8,3	10,1	12,1	14,7	18,3	20,8
	Absorbed power (2)	kW	1,8	2,4	2,7	3,2	3,8	4,7	5,9	6,7
Compressors	Quantity	n°	1	1	1	1	1	1	1	1
	Type		<----- Rotary ----->			<----- Scroll ----->				
Condenser	Fans	n°	1	1	1	1	2	2	2	2
	Air flow	m³/s	0,97	0,89	0,89	0,82	1,94	1,78	1,64	1,64
Electrical characteristics	Power supply	V/Ph/Hz	<----- 230 / 1 / 50 ----->			<----- 400/3+N/50 ----->				
	Max. running current	A	11	16	16	17	10	12	13	15
	Max. inrush current	A	37	52	60	65	36	54	57	76
Water circuit	Water flow	l/s	0,22	0,29	0,34	0,40	0,48	0,59	0,71	0,84
	Pump nominal power	kW	0,13	0,13	0,19	0,19	0,30	0,30	0,30	0,30
	Available static pressure	kPa	49	40	51	42	179	158	152	120
	Storage water volume	l	<----- 25 ----->			<----- 50 ----->				
	Expansion vessel	l	3,4	3,4	3,4	3,4	3,4	3,4	3,4	3,4
	Water connections	"G	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"
Sound pressure (3)	STD	dB(A)	49	49	49	49	51	51	51	51
Weights	Transport weight	Kg	98	106	110	118	190	192	194	196
	Operating weight	Kg	123	131	135	143	240	242	244	246

DIMENSIONS

CHA/CL			18	21	25	31	41	51	61	71
L	STD	mm	870	870	870	870	1160	1160	1160	1160
P	STD	mm	320	320	320	320	500	500	500	500
H	STD	mm	1100	1100	1100	1100	1270	1270	1270	1270

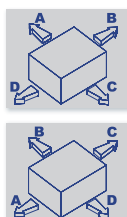
DIMENSIONAL



CLEREANCE AREA

CHA/CL 18 ÷ 31		
A	mm	200
B	mm	200
C	mm	200
D (*)	mm	800

CHA/CL 41 ÷ 71		
A	mm	200
B	mm	200
C	mm	200
D (*)	mm	800



NOTES

- (1) Chilled water from 12 to 7 °C, ambient air temperature 35 °C.
 - (2) Heated water from 40 to 45 °C, ambient air temperature 7 °C d.b./6 °C w.b.
 - (3) Sound pressure level measured in free field conditions at 1 m from the unit and. According to ISO 3744.
- (*) D SIDE: Fan side.
N.B. Weights of WP versions are indicated on the technical book.