

CHA/HT 18÷131

AIR COOLED LIQUID CHILLERS AND HEAT PUMPS WITH AXIAL FANS, SCROLL COMPRESSORS AND PLATE EXCHANGERS FOR INSTALLATIONS WITH RADIANT PANELS AND COLD RAILS.

FROM 6 kW TO 45 kW.



UNIT DESCRIPTION

The air-condensing water coolers and heat pumps of the CHA/HT 18÷131 series are used in radiant panel and cold beam systems and combined with primary air terminals. These units have been particularly designed to meet the cooling and heating needs of medium-small applications in commercial and residential buildings; they are equipped with Scroll compressors, peraluman structure and plate-type exchangers with large exchange surface, and they are available in 12 sizes, all extremely silent and reliable. The wide range of accessories, particularly the dynamic set point that adapts the temperature of the unit's output water to the thermohygrometric conditions of the room, satisfies every plant-engineering need for a range of extremely flexible machines, produced to simplify the on-site installation.



VERSIONS

CHA/HT

Cooling only

CHA/HT/WP

Reversible heat pump

FEATURES

- Structure with supporting frame, in peraluman and galvanized sheet.
- 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 with copper tube and aluminium finned coil.
- Evaporator in AISI 316 stainless steel brazewelded plates type, complete with water differential pressure switch and an antifreeze heater for WP versions.
- R407C refrigerant.
- Electrical panel includes: main switch with door lock device, fuses, compressor and pump remote control switch (41÷131).
- Microprocessor control and regulation system.

ACCESSORIES

Loose accessories:

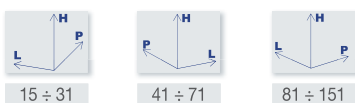
CC	Condensing control down to -20°C
PS	Circulating pump
ST	Dynamic set-point (excluded WP)
PB	Low pressure switch
CR	Remote control panel
IS	RS 485 serial interface
CV	Drain pan (only WP)
RP	Metallic guards for condenser
AG	Rubber shock absorbers

CHA/HT			18	21	25	31	41	51	61	71	81	91	101	131	
Cooling	Cooling capacity (1)	kW	6,4	8,3	9,9	11,6	14,2	17,5	20,5	23,5	25,5	31,5	36,5	45,1	
	Absorbed power (1)	kW	1,7	2,1	2,5	3,1	3,6	4,5	5,2	6,2	6,9	8,5	9,6	12,1	
Heating	Heating capacity (2)	kW	6,2	8,0	9,5	11,0	13,6	16,5	19,8	22,2	24,5	30,3	35,0	43,2	
	Absorbed power (2)	kW	1,6	2,1	2,3	2,8	3,3	4,1	4,6	5,5	6,2	7,8	8,8	10,9	
Compressors	Quantity	n°	1	1	1	1	1	1	1	1	1	1	1	1	
	Type		<----- Scroll ----->												
Evaporator	Water flow	l/s	0,30	0,40	0,47	0,55	0,68	0,83	0,98	1,12	1,22	1,50	1,74	2,15	
	Pressure drops	kPa	5	8	10	14	21	13	17	22	26	39	37	27	
	Water connections	"G	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	
Condenser	Fans	n°	1	1	1	2	2	2	2	1	1	2	2	2	
	Air flow	m³/s	0,97	0,89	0,82	1,94	1,94	1,78	1,64	2,69	2,50	4,00	4,00	5,38	
Electrical characteristics	Power supply	V/Ph/Hz	<-- 230/1/50 -->					<----- 400/3+N/50 ----->							
	Max. running current	A	12	16	18	8	11	14	15	18	17	21	24	30	
	Max. inrush current	A	50	61	79	51	55	71	79	109	107	135	139	184	
Unit with installed pump	Potenza nominale	kW	0,19	0,19	0,19	0,30	0,30	0,30	0,30	0,45	0,55	0,55	0,75	0,75	
	Available static pressure	kPa	70	65	60	165	150	135	115	130	215	170	200	110	
Sound pressure (3)	STD	dB(A)	51	51	52	52	52	52	52	51	52	52	52	52	
Weights	Transport weight	Kg	89	90	94	112	114	116	118	210	220	245	265	279	
	Operating weight	Kg	89	90	94	112	114	116	118	212	222	247	267	281	

DIMENSIONS

CHA/HT			18	21	25	31	41	51	61	71	81	91	101	131
L	STD	mm	870	870	870	1160	1160	1160	1160	1850	1850	1850	1850	1850
P	STD	mm	320	320	320	500	500	500	500	1000	1000	1000	1000	1000
H	STD	mm	1100	1100	1100	1270	1270	1270	1270	1300	1300	1300	1300	1300

DIMENSIONAL

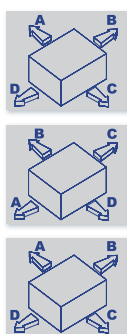


CLEREANCE AREA

CHA/HT 18 ÷ 25		
A	mm	200
B	mm	200
C	mm	200
D (*)	mm	800

CHA/HT 31 ÷ 61		
A	mm	200
B	mm	200
C	mm	200
D (*)	mm	800

CHA/HT 71 ÷ 131		
A (**)	mm	500
B	mm	800
C	mm	800
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.
 (**) A SIDE: Electrical board side.
 N.B. Weights of WP versions are indicated on the technical book.