

CHA/CLK 15÷81

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

FROM 4 kW TO 20 kW.



UNIT DESCRIPTION

The Compact Line series, the winning choice for ideal comfort in residential and commercial environments, is enhanced by a new line of products equipped with R410A refrigerant fluid. In addition to the excellence of the range for its compact sizes, quietness and optimised water circuit, the Compact Line series gains another winning feature: R410A refrigerant fluid. High efficiency with reduced heat exchange surfaces compared to those usable with conventional refrigerant fluids and safeguarding the environment thanks to the lower quantities of refrigerant used make the CHA/CLK range the ideal product for residential and commercial-type applications. Thus increasingly compact and high-tech units, to offer you ideal comfort in all seasons.

COMPACT —Line—



VERSIONS

CHA/CLK

Cooling only with tank and pump

CHA/CLK/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.
- R410A 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/CLK			15	18	21	25	31	41	51	61	71	81	
Cooling	Cooling capacity (1)	kW	4,2	5,1	6,4	7,5	8,6	10,4	12,2	15,3	18,6	20,5	
	Absorbed power (1)	kW	1,4	1,7	2,1	2,5	2,9	3,5	4,0	5,0	6,0	6,6	
Heating	Heating capacity (2)	kW	5,0	6,0	8,0	8,7	10,3	12,4	14,8	18,8	21,9	24,4	
	Absorbed power (2)	kW	1,7	2,0	2,6	2,9	3,5	4,2	4,8	6,2	7,1	8,0	
Compressor	Quantity	n°	1	1	1	1	1	1	1	1	1	1	
	Type		<----- Rotary ----->				<----- Scroll ----->						
Condenser	Fans	n°	1	1	1	1	1	1	2	2	2	2	
	Air flow	m³/s	0,97	0,97	0,89	0,89	0,82	0,82	1,94	1,78	1,78	1,64	
Electrical characteristics	Power supply	V/Ph/Hz	<----- 230 / 1 / 50 ----->						<----- 400 / 3+N / 50 ----->				
	Max. running current	A	7	9	11	13	15	19	12	13	15	17	
	Max. inrush current	A	39	43	62	62	79	86	58	61	78	106	
Water circuit	Water flow	l/s	0,20	0,24	0,31	0,36	0,41	0,50	0,58	0,73	0,89	0,98	
	Pump nominal power	kW	0,20	0,20	0,20	0,20	0,20	0,21	0,30	0,30	0,30	0,30	
	Available static pressure	kPa	52	48	35	45	41	42	140	123	90	80	
	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	3,4	3,4	
	Water connections	"G	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"	
Sound pressure (3)	STD	dB(A)	49	49	49	49	51	52	52	52	52	52	
Weights	Transport weight	Kg	96	98	106	110	118	120	192	194	196	198	
	Operating weight	Kg	121	123	131	135	143	145	242	244	246	248	

DIMENSIONS

CHA/CLK			15	18	21	25	31	41	51	61	71	81
L	STD	mm	870	870	870	870	870	870	1160	1160	1160	1160
P	STD	mm	320	320	320	320	320	320	500	500	500	500
H	STD	mm	1100	1100	1100	1100	1100	1100	1270	1270	1270	1270

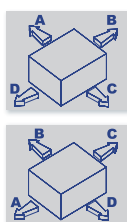
DIMENSIONAL



CLEREANCE AREA

CHA/CLK 15 ÷ 41		
A	mm	200
B	mm	200
C	mm	200
D (*)	mm	800

CHA/CLK 51 ÷ 81		
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.