LCW45-70 Size 3

Negative temperature liquid chillers

COOLING CAPACITY

6500 - 10450 W



EVAPORATOR

With brazed stainless-steel plates with sensor for protection against freezing.

AIR CONDENSER

Finned high-efficiency copper tube condensing coil, complete with safety grille.

AXIAL FAN

Axial fan, complete with thermal cut-out and safety grille. Fan adjustment step pressure switch.

LIQUID CIRCUIT

Liquid circuit composed entirely of non-ferrous material in contact with the liquid to prevent contamination. Stainless-steel centrifugal pump with 3 bar available head. Stainless-steel storage tank complete with drain valve, electrical level and visual level indicator, 0-10 bar pressure gauge, protective flow switch, regulation sensor.

ELECTRICAL PANEL

With main disconnect switch, relay motor protection, phase sequence relays.

MANAGEMENT AND CONTROL

The TX200 control unit manages the operation of the chiller and provides complete operator alarm diagnostics. An on-off contact allows the machine to be switched on remotely. Illuminated control selector. Possibility of remote display for machine regulation.

PAINT/COATING

Standard colour: RAL 7035 textured.

MAIN ACCESSORIES (ref. page 189)

BA - Mechanical bypass valve protecting the pump

HR - Fluid heating element

LTA - Operation at low ambient temperatures

FP - Polyurethane air filter

RU - Castors

TD - Differential fluid temperature management (two sensors)

- HIGH-pressure pump version "H" 5 bar.
- Non-standard paint/coating
- Satin AISI 304 stainless steel framework

STRUCTURE

In powder-coated steel sheet, RAL 7035 textured finish. Easily removed panels

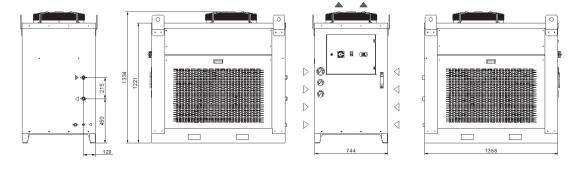
COMPRESSOR

Hermetic scroll compressor (connected in tandem for model 70), cooled by the refrigerant, complete with thermal cut-out. Case heating element for oil. Electronic management coolant injection valve.

REFRIGERATION CIRCUIT

Complete with charging port, drier filter, liquid receiver, thermostatic valve, solenoid valve, liquid viewing port, high- and low-pressure pressure switch, intake oil separator, R404A refrigerant. Solenoid valve for liquid injection. High- and low-pressure gas pressure gauge.

Dimensions







	LCW45	LCW70							
w		10450							
	+15 - +48								
+ -									
K	Water + Ethylene Glycol 50%								
	+/-2								
1110	1/40	PTA							
V 1 11	4001/1/400	() 0. 1. 5011							
-	400V (+/-10%) 3ph 50Hz								
V	24 V AC								
	IX2	00							
—									
		oll							
no.	1 - 1	2 - 1							
kW	14.0	22.0							
A	23.5	37.4							
	Axi	al							
no.	1-	1							
m₃/h	570	00							
kW	0.	7							
А	1.	4							
	Centri	fugal							
no.	1	1							
m₃/h	5700	5700							
	220	220							
kW	1.5	1.5							
A	3.0	3.0							
	Centrifugal								
no									
		35.0 - 80.0							
-		3.5							
	2.4								
^	2.	·							
	Control	fugal							
no									
		4.9							
A									
l	60	0							
inch	1								
kg	350	380							
mm	74	4							
+									
mm	13								
mm mm	13:	34							
mm		34 68							
	kW A no. m ₃ /h kW A no. m ₃ /h Pa kW A no. l/min bar kW A l inch	°C +15- °C -30 Water + Ethyle K + HFC R40 V ph Hz 400V (+/-10% V ph Hz 400V (+/-10% N correction 1-1 kW 14.0 A 23.5 A 1-1 kW 0. A 1. Centri no. no. 1 m3/h 5700 pa 220 kW 1.5 A 3.0 Centri no. loar 3.7 kW 1. A 2. Centri no. loar 5.1 kW 2. A 5.1 kW 2. A 5.							

^{*} Data relating to operation under the following conditions: intake/outlet temperature -20/-25°C, water with 50% glycol, ambient temperature 32°C. Cooling power refers to the evaporator unit.

^{****} The electrical data refer to $\cos \phi = 0.8$.

Correction factors for calculating the cooling power														
Water outlet temperature	Fw	°C	-30	-28	-26	-25	-22	-20	-18	-16	-14	-12	-10	-5
		factor	0.75	0.85	0.95	1.00	1.1	1.20	1.30	1.42	1.54	1.64	1.76	1.80
Ambient Temperature	Fa	°C					15	20	25	32	35	40	48	
		factor					1.16	1.10	1.05	1.00	0.97	0.91	0.84	
Percentage glycol by weight	Fg	%										50		
		factor										1.00		

Cooling power = Nominal cooling power x $\ \ Fw \ \ x \ \ Fa \ \ x \ \ Fg$



^{**} Sound pressure level, measured in a free hemispherical field at a distance of 1 m from the machine and 1.5 metres from the ground, per ISO 3746.

 $^{^{\}star\star\star} \ \text{Weight includes pallets and packaging (where provided for), with refrigerant charge, storage tank empty, axial fans.}$