LCWA2-A8 Size 4

Negative temperature liquid chillers

COOLING CAPACITY

13000 - 19600 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

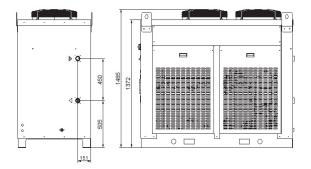
COMPRESSOR

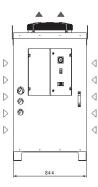
Hermetic scroll compressor (connected in tandem), cooled by the refrigerant, complete with thermal cut-out. Case heating element for oil. Electronic management coolant injection valve.

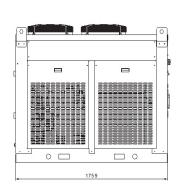
REFRIGERATION CIRCUIT

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











Ambient temperature operating limits	Model		LCWA2	LCWA8
Settable fluid temperature range	Rated Cooling Capacity*	w	13000	19600
Settable fluid temperature range		°C	+15	- +48
Fluid type			-30	5
Refrigerant gas	-			
Refrigerant gas		К		•
Power supply				
Supply voltage				
Secondary supply voltage		V ph Hz	400V (+/-10°	%) 3ph 50Hz
Digital thermostat		+ -		· · · · · · · · · · · · · · · · · · ·
Scroll		-		
Compressor type				
Quantity - Number of circuits no. 2 - 1 3 - 1 Max. power draw kW 28.0 42.0 Max. current draw A 47.0 70.5 Axial Fan Compressor type Axial Quantity no. 2 2 Air flow rate ms/h 10000 10000 Max. power draw kW 1.4 4 Max. current draw A 2.8 Centrifugal Quantity no. 2 2 Air flow rate ms/h 10000 10000 Available head Pa 220 220 Axia, power draw kW 3.0 3.0 Max. current draw A 6.0 6.0 Standard Pump Centrifugal Quantity no. 1 Nominal available head bar 3.7 3.3 Nominal available head bar 3.7 3.3 Nominal available head bar 3.7 3.3			Sci	roll
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Storage tank capacity I 120				
	Max. Current Ulaw	A	5.	
	Storage tank canacity		12	20
IN/OUT liquid connections inch 1 1/2"				
Net weight (approximate)*** kg 550 610				
Width mm 844	Width			
Depth mm 1759		mm	17	59
Height mm 1485				
Sound pressure level** dB(A) 70 72				
IP rating IP 44	IP rating	IP	4	4

^{*} 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.

			Correct	ion factor	rs for calc	ulating th	e cooling	power						
Water author town and the	F	°C	-30	-28	-26	-25	-22	-20	-18	-16	-14	-12	-10	-5
Water outlet temperature F	Fw	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	F	°C					15	20	25	32	35	40	48	
	га	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.

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