

LC Water-to-Air Chiller



Fig.1: LC Water-to-Air Chiller

LC Water-to-Air Chiller is a compact closed loop cooling device which guarantees the thermo-stabilization of the GeniX X-ray generator. This reliable unit ensures an optimum and stable operation of the X-ray source over time independently from external conditions and without water consumption.

The refrigerant compressor cools a stainless steel coil located in the coolant water tank or evaporator plate. A temperature controller monitors the coolant water temperature and controls the refrigerant circuit. The pump, selected to suit the application, pumps the coolant water reliably to the load. The fine filter in the flow circuit ensures trouble-free operation in the cooling water circuit. The heat is expelled via a fan or transferred to an existing water supply via a heat exchanger.

Principal features

- compact 19" rack enclosure
- good temperature stability
- reliable operation
- low noise and vibration levels
- low maintenance
- 300 W - 2.8 KW cooling capacity
- flow rate: 0.5 - 17 l/min. 4 - 12 HU high
- alternative table top design

Equipment functionalities

- designed for de-ionised water with 10% glycol
- high temperature stability "+/- 0.1K"
- customised alarm dry contacts via 9 pole SUB D on rear panel
- water level indicator on front panel
- fan speed control
- RS 232 interface 24VDC external start signal
- remote start
- 50Hz or 60Hz usable

Technical Data

Subject to technical changes without notice

Cooling power (Watt)

- 20°Tw / 20° Tu 300
- 20°Tw / 35° Tu 170

Temperature stability

+/- 0.1K

- control type Hot gas bypass, PID

Enclosure

- size (WxD) mm 19" Slide-in unit, 640mm deep with external filter
- height HU (1HU=44.5) 4
- noise (db (A)) < 60
- weight (approx.) Kg 32

Application range

Temperature

- standard coolant water outlet 10 - 30° C
- ambient temperature 5 - 40° C
- storage 0 - 70° C
- air quantity 320 m³/h
- air flow suction via side panel, expulsion via rear panel

Water circuit

- water filter (F20, 20µm) external
- water connections 2 x 3/8" internal thread
- tank volume (liter) 1.8
- level display optical water level display on front panel

Standard alarm interlocks

- alarm contacts (open circuit) at 9pin SUB D (Interlock)

Water circuit

- default switching point (l/min) 2
- level monitoring two vertical float switches (Warning, Alarm)
- default high-low temperature alarm 15° C Low, 32° C High temperature alarm

Refrigerant circuit

- high pressure 18.5 bar

Power supply

- voltage 230V or 110V (switchable)
- current (A) 2.5A @ 230V
- line frequency 50 or 60 Hz
- power connections IEC 950 with line filter

Pumping power

- PD1

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