



CFC-230-TE-AIC-HM

Thermoelectric Liquid Recirculating Chiller with heating function

Features

- Precise temperature control
- Green devices
- Reliable solid-state operation
- Low noise producing
- Compact design
- Low fluid level warning

Applications

- Thermal stabilization of DPSSL
- Medical Imaging Systems
- Analytical & Industrial Instrumentation
- Laboratory applications
- Biomedical Systems
- Food industry



Type	CFC-230-TE-AIC-HM
Voltage VAC 50/60 Hz	100VAC/240VAC
Current, Amps. @ 110/220 VAC	2,6/ 1,3
Ambient temperature, °C	(+4 ÷ +45)°C
Cooling capacity at dT=0, Watt ¹	218 W
Heating capacity , Watt	252W
Operating temperature range of fluid: - coolant – distilled water, °C	(+2 ÷ +40)°C
Operating temperature range of fluid: - coolant 70% distilled water H2O + 30% ethylene glycol or ethanol, °C	(-12 ÷ +40)°C
Coolant temperature control range (°C)	(+2 ÷ +45)°C
Control accuracy, °C	±0,15°C
Fans lifetime (at temperatures not higher than +40°C) and nominal voltage	≥60,000 hours
Volume of inside liquid circuit, ml	650 ml
Reservoir, ml	450 ml
Fluid flow , l/min , ±10%	6 l/min
Pressure , Bars , ±10%	1,6 Bars
Type of coolants ²	Distilled water, 70% distilled water H2O + 30% ethylene glycol or ethanol, others non-corrosive coolants
Operating mode	Continuous
Setup tuning	Keypad and via RS485
Protection of air heatsink against corrosion	Anodizing on aluminum 6 to20 microns
Corrosions protection of liquid heat exchanger	galvanic nickel plating
Dimensions (height/width/depth), mm	300/225/390
Weight ³	12 kg

1 - Cooling capacity is rated at ambient temperature +35°C for liquids with thermal conductivity 4.19 +/- 5%, kJ/(kg*K).

2 - Used Coolant used should have no components capable of forming deposits or corrosion of the fins, as well as to dissolve nickel coating; should not be exposed to freezing or boiling over the temperature range of the liquid circuit.

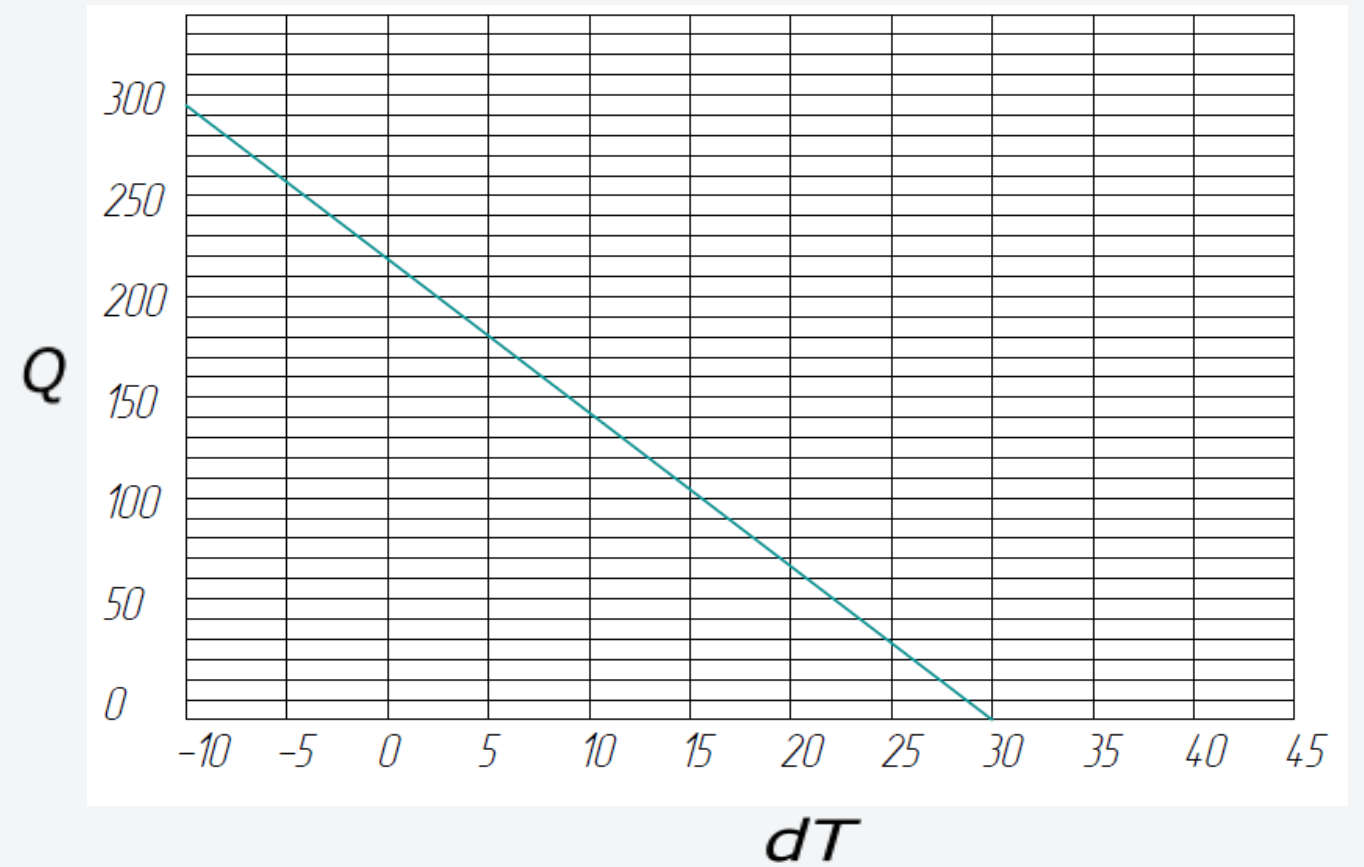
3 - Weight can deviates from indicated within +/-5%.

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Performance



$dT = T_{\text{ambient air temperature}} \text{ } ^\circ\text{C} - T_{\text{liquid}} \text{ } ^\circ\text{C}$
Q - cooling capacity, W, @ ambient temperature +35° C.

PUMP CURVE

