

CLL-4W (-90°C to +180°C) – For Lab Applications.

Operating temperature range	-75°C to +180°C
Temperature control accuracy	±0.5°C
Temperature display	7" touch screen display
Temperature display resolution	0.01
Internal / Jacket temperature sensor	3-wire RTD PT-100 sensor
External / Process sensor required	3-wire RTD PT-100 sensor
Controller type	PID, Process / Jacket control selectable
Communication / Interface	RS-485 Mod bus, Ethernet.
Alarm message	Indicative
Type of Cooling	Refrigerated
Cooling power with	Methanol
@ 0 °C	2.2 kW
@-40 °C	2.0 kW
@-60 °C	1.4 kW
Refrigerant	R-404a, CFC free
Type of Heating	Electrical
Heating Power	4.5 kW
Machine standard version	Water-Cooled
Cooling water flow minimum	250 l/hr
Cooling water pressure	3 bar
Cooling water temperature	10~30°C
Cooling water end connection	1" hose nipple
Circulation Pump maximum flow	40~45 l/min
Circulation Pump maximum pressure	0.7 bar
Machine end connection	M42x1.5 Male
Machine overall dimension (W x D x H)	700 x 750 x 1500 mm
MOC	Complete SS-304 construction
Power supply	3-Phase, 420V AC, 50 Hz
Maximum current	20A
Ambient temperature condition	10°C ~ 35°C
<u>Standard Safety Features:</u>	
Phase reversal prevention	Cut-off, Indication / Message, Manual reset
Over temperature protection	Cut-off, Indication / Message, Auto reset
Compressor over pressure	Cut-off, Indication / Message, Manual reset
Compressor over heat	Cut-off, Indication / Message, Auto reset

*Dimensions are indicative and can change without prior notice as development is a continuous process.

*The temperature mentioned above is at outlet of the machine hence temperature inside the process / load may vary due to various factors like process design, distance, head, insulation etc.