

## **HCL-1 (-70°C to +100°C) – Heating Cooling Cryo Bath.**

Operating temperature range	-70°C to +100°C
Temperature control accuracy	±0.5°C
Temperature display	LED / LCD
Temperature display resolution	0.1
Internal / Jacket temperature sensor	3-wire RTD PT-100 sensor
External / Process sensor required	3-wire RTD PT-100 sensor
Controller type	PID
Communication / Interface	RS-485 Mod bus (optional)
Alarm message	Indicative
Type of Cooling	Refrigerated
Refrigerant	R-404a, CFC free
Cooling power with	Methanol
@ 0 °C	0.4 kW
@-40 °C	0.3 kW
@-60 °C	0.2 kW
Type of Heating	Electrical
Heating Power	1 kW
Machine standard version	Air-Cooled
Circulation Pump maximum flow	14~16 l/min
Circulation Pump maximum pressure	0.4 bar
Machine end connection	M16x1 Male
Machine overall dimension (W x D x H)	610 x 700 x 1150 mm
MOC	Complete SS-304 construction
Power supply	1-Phase, 230V AC, 50 Hz
Maximum current	15A
Ambient temperature condition	10°C ~ 35°C
<b><u>Standard Safety Features:</u></b>	
Oil level low in bath	Cut-off, Indication / Message, Auto 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

- 
- Since development is a continuous process, above specifications can change without prior notice
  - The temperature mentioned above is at outlet of the machine hence temperature inside the load may vary due to various factors like process design, distance, head, insulation etc.