

HCL-3 (-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	1.5 kW
@-40 °C	1.2 kW
@-60 °C	0.6 kW
Type of Heating	Electrical
Heating Power	3 kW
Machine standard version	Air-Cooled
Circulation Pump maximum flow	30~35 l/min
Circulation Pump maximum pressure	0.7 bar
Machine end connection	M24x1.5 Male
Machine overall dimension (W x D x H)	700 x 700 x 1300 mm
MOC	Complete SS-304 construction
Power supply	3-Phase, 420V AC, 50 Hz
Maximum current	15A
Ambient temperature condition	10°C ~ 35°C
<u>Standard Safety Features:</u>	
Oil level low in bath	Cut-off, Indication / Message, Auto reset
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

- 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.