

## **CLM-1 (-30°C to +200°C) – For Lab Applications.**

|   |   |
|---|---|
| Operating temperature range             | -30°C to +200°C                             |
| Temperature control accuracy            | ±0.5°C                                      |
| Temperature display                     | 4.3" 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 or Jacket control selectable   |
| Communication / Interface               | RS-485 Mod bus, Ethernet                    |
| Alarm message                           | Indicative                                  |
| Type of Cooling                         | Refrigerated                                |
| Refrigerant                             | R-404a, CFC free                            |
| Cooling power with                      | Methanol                                    |
| @ 0 °C                                  | 0.6 kW                                      |
| @-20 °C                                 | 0.3kW                                       |
| @-30 °C                                 | 0.1kW                                       |
| Type of Heating                         | Electrical                                  |
| Heating Power                           | 1.5 kW                                      |
| Machine standard version                | Air-Cooled                                  |
| Circulation Pump maximum flow           | 18~20 l/min                                 |
| Circulation Pump maximum pressure       | 0.3 bar                                     |
| Machine end connection                  | M16x1.5 Male                                |
| Machine overall dimension (W x D x H)   | 475 x 400 x 800 mm                          |
| MOC                                     | Complete SS-304 construction                |
| Power supply                            | 1-Phase, 230V AC, 50 Hz                     |
| Maximum current                         | 10A   |
| Ambient temperature condition           | 10°C ~ 30°C                                 |
| <b><u>Standard Safety Features:</u></b> |   |
| Over temperature protection             | Cut-off, Indication / Message, Auto reset   |
| Compressor over pressure                | Cut-off, Indication / Message, Manual reset |
| Compressor overheat                     | 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 process/ load may vary due to various factors like process design, distance, head, insulation etc.