

### **Technical Details for 600 LPH Programmable Master Water Chiller**

|                                    |                                                                       |
|------------------------------------|-----------------------------------------------------------------------|
| MODELS                             | 5T                                                                    |
| Nominal Operating Cooling Capacity | 600 LPH @ 15° C to 20° C [After Full Tank-Circulating at 6°C]         |
| Body                               | MS 1,2 mm thick with Powder Coated                                    |
| Dimensions: Height                 | 1275 or above                                                         |
| Depth                              | 850 or above                                                          |
| Length                             | 1100 or above                                                         |
| Net Weight                         | 200                                                                   |
| Operating Weight                   | 600                                                                   |
| Electric Power Supply              | 400 Volt / 3 Phase / 50 Hz                                            |
| Compressor Type                    |                                                                       |
| Make                               | EMERSON COPLAND Model -ZR72KC-TFD                                     |
| Input Power                        | 4100 Watts                                                            |
| Qty                                | 1 Nos                                                                 |
| EVAPORATOR                         | Plate Type Heat Exchanger                                             |
| Construction Material              | Copper/ stainless steel                                               |
| Storage Tank Capacity              | 250 Ltr                                                               |
| Material                           | Stainless Steel – 304 Grade                                           |
| Insulation / Thickness / Density   | Close Cell foam, 20 mm thk                                            |
| Condenser - Type                   | 3/8" OD inner grooved tubes, 0.14mm thk hydrophobic coated slit fins. |
| Rows                               | 4 Nos                                                                 |

**Manufacturer of Drinking water coolers, Drinking water coolers inbuilt water purifiers, Modular cold Room/Walk-in Cold Room, Master water coolers, Water ATM and Traylor Made Refrigeration Systems**

Office: 53, II nd Floor, Bharat Nagar, NFC, New Delhi – 110025 Contact: 07303437111

Works- B 007/12, Site C, Surajpur Ind Area, G B Nagar, Greater Noida 201308

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|                                        |                                                                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Fan Dia                                | 400mm x 2 Nos                                                                                                                               |
| Motor make, Type, Power Supply & Speed | HI COOL<br>230V- 1ph-50Hz                                                                                                                   |
| Input Power                            | 180 Watts X 2 Nos                                                                                                                           |
| Circulating Water Pump                 | Centrifugal Type                                                                                                                            |
| Make / Model                           | Grundfoss / Kirloskar or Equivalent                                                                                                         |
| Flow Rate                              | 2400 Ltr/Hrs                                                                                                                                |
| Input Power                            | 370 Watts                                                                                                                                   |
| Total (Input) load electrical          | 4830 Watts                                                                                                                                  |
| Safety Devices                         | High Pressure Switch, Low Pressure Switch, Flow Switch, Suction pressure regulating valve (Expansion Valve), Anti freeze protection BY DTC. |
| Electrical Safety                      | Crankcase Heater, Overload for pump, RCCB for SYSTEM                                                                                        |
| Digital Temperature Controller         | Denfoss                                                                                                                                     |
| Connections: Out Let                   | 1" bsp                                                                                                                                      |
| * Inlet                                | ½" bsp                                                                                                                                      |
| * Drain                                | 1" (M) bsp                                                                                                                                  |

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Rating conditions: The ratings are based on 20° C water outlet from chiller at 46°C ambient temp. and 32°C water temp.

### **Control systems**

System shall be provided with the following controls OR display functions.

- Control of the water inlet by separate valve and outlet temperature display by DTC.
- Complete alarm management
- Auto loading / unloading of compressor
- Automatic starting of unit in case of Power failure
- Built-in time delays for compressor and evaporator pump
- External alarm facility
- Password protection
- In-built & auxiliary antifreeze safety by DTC.
- Compressor
- Water pump for system
- External alarm signal device
- The Display features 3 digits with the display of the menu & Temp.
- Outside of this range of measurement, the value shall be automatically displayed.
- (even if internally the unit still operates considering the decimal part)

In normal operation, the value displayed shall correspond to the evaporator water outlet temperature.

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