

# PC Based Heat Pump Refrigeration System

**MMI**  
Solution Provider



Compressor Type	: Closed Type / KIRLOSKAR
Cylinder	: Single
Discharge	: 0 - 10 LPH
Tube material	: Copper
Capacity	: 1 TR
Refrigerant	: 134 a
Outer tube dia	: 6 mm or $\frac{1}{2}$ "
Pressure drop	: 0.5 kgf / cm <sup>2</sup>
Condenser	: Air Cooled
Evaporator	: Water Cooled
Expansion Valves	: Capillary Tube & Thermostatic with Refrigerant Flow Meter
Fan (230 volts 2 Amps)	: One No ( for Condenser)
Freezer box	: Evaporator Unit consists of a SS Freezer box
Reversing Valve	: For heating and cooling purpose
Digital Energy Meter	: Single Phase Energy meter to measure V, A, W, Wh, VA, Power Factor
Pressure Transducer	: 0-20 bar
Temperature Sensor	: 0-99.9°C & RTD Type
Temperature Indicator	: 5 channel
Study	: To study effect of heat transfer of coefficient
Data Acquisition Card	: 8 Digital Input & Output and 8 Single Ended Analog Input / 4 Differential Analog Input Software Based on Lab view Software

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## Micro Mech Instruments

No:1, 2nd Cross Street, Thendral Nagar Karapakkam, Chennai-97.  
Tamilnadu, INDIA. (Near KCG College Back Side Gate)

Tel: 044-6555 5411 / Mobile: +91 98400 49311, +91 98400 49311.

E-mail: [sales@micromechinstruments.com](mailto:sales@micromechinstruments.com)

Website: [www.micromechinstruments.com](http://www.micromechinstruments.com)