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**ENGINEERING**

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THINK  
**IT'S**   
**MAGIC**  
WE CALL IT  
ENGINEERING

# SEMI COMMERCIAL HEAT PUMP



# SEMICOMMERCIAL HEAT PUMP

- ▶ The Semi Commercial Heat Pump functions just as the Monobloc Heat Pump but the only difference being the higher level of protection and capacity. This system can be connected with the existing water system. It can give better performance in low temperature as well this system can generate high quantities of hot water in less time. It is designed specifically for better reliability. This can be used in Hotels, Hostels, Hospitals, Resorts and industrial applications.
- ▶ It is available for R22 and R410 refrigerant.
- ▶ This system is available with input 2, 2.5 to 3 KW along with 500 L to 1250 L storage tank.

## FEATURES

- ▶ Rotary/ Reciprocating compressor
- ▶ Brazed plate type heat exchanger
- ▶ No copper piping work at site
- ▶ Only plumbing connections required
- ▶ Overload protection
- ▶ Digital Temperature controller for automatic operation
- ▶ Marine epoxy/ ceramic coating for tanks
- ▶ High and low pressure protection
- ▶ Less chances of refrigerant leakage
- ▶ In built Circulation pump
- ▶ Easy installation and maintenance
- ▶ Refrigerant charged from factory
- ▶ High and Low voltage protection (Optional)

# MODLE SPECIFICATIONS

| Description                         | Model                  | 20 Magma M            | 27 Magma M     | 30 Magma M            |
|-------------------------------------|------------------------|-----------------------|----------------|-----------------------|
| Heating Capacity                    | kW                     | 8.0                   | 10.0           | 12.4                  |
| Compressor                          | KW                     | 2                     | 2.5            | 3.1                   |
| COP with $\Delta T$ of 30°C.        | coph                   | 4                     | 4.1            | 4                     |
| Rated Water Pump Power              | kW                     | 0.08                  | 0.08           | 0.08                  |
| Fan                                 |                        | 0.09                  | 0.18           | 0.25                  |
| Total Power Consumption             | kW                     | 2.17                  | 2.76           | 3.43                  |
| Voltage                             | V                      | 220 V - 240 V ~ 50 Hz |                | 380 V - 415 V ~ 50 Hz |
| Rated Output Water Temp             | °C                     | 55                    | 55             | 55                    |
| Max Out Water Temp                  | °C                     | 60                    | 60             | 60                    |
| Rated Hot Water Output              | Rise in Temperature °C | 30                    | 30             | 30                    |
|                                     | Ltrs Per hour          | 200                   | 275            | 300                   |
| Circulation Pump Flow               | LPM                    | 25                    | 30             | 35                    |
| Compressor                          | Type                   | Rotary                | Rotary         | Rotary/ Scroll        |
|                                     | Refrigerant            | R22                   | R22            | R22                   |
| Ambient Temp                        | °C                     | 5 to 45               | 5 to 45        | 5 to 45               |
| Outer Pipe Dia                      | Inch                   | 1                     | 1              | 1                     |
| Noise in 1 meter distance           | dB                     | ≤54dB(A)              | ≤54dB(A)       | ≤54dB(A)              |
| Dimension L X W X H                 | mm                     | 900 X 550 X 600       | 950 X 550X 600 | 950 X 550X 600        |
| Storage Tank Capacity - Pressurised | Ltrs                   | 500 TO 750            | 500 TO 1250    | 500 TO 1250           |

# THANK YOU

Contact Details:

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