AIR SOURCE HEAT PUMP - 25KW

1.0 GENERAL SPECIFICATION

Air to Water Heat Pump. Unit is included with compressor , evaporator , condenser and electrical control panel. Refrigerant is environmental friendly R-134A. Heat Pump can produce 70^{0}C maximum hot water temperature.

2.0 PERFORMANCE

The unit have C.O.P. not less than 3.5 at 30 ^{o}C,65 %RH ambient air and 30 ^{o}C , 60 ^{o}C inlet and outlet hot water.

3.0 EQUIPMENT SPECIFICATION

3.1 COMPRESSOR " COPELAND "

Hermetic Scroll type compressor , suitable for high temperature operation with environmental friendly R134a refrigerant.

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PLATE HEAT EXCHANGER

3.2 CONDENSER

Condenser is plate heat exchanger , SUS 316 Stainless steel , Copper welding. Refrigerant side is tested at pressure 500 psig and water side is tested at pressure 300 psig.

3.3 EVAPORATOR

Evaporator is rifled copper tube - inner grooved for high efficiency and aluminium blue fin with galvanized end plates.


EVAPORATOR

3.4 REFRIGERANT EQUIPMENTS

Refrigerant equipment are included

- Thermal Expansion Valves (Superheat Adjustable)
- Sight Glass
- Filter Dryer

3.5 CABINET

Heat pump cabinet is SUS304 Stainless Steel. Cabinet have 7 access door for serving , one for compressor and TXV , one for evaporator and condenser and one for electrical equipment. Cabinet base thickness is 2.0 mm. Heat pump is designed for both indoor and outdoor installation.

3.6 INSULATION

EPDM Close Cell Insulation. Excellent insulator with low thermal conductivity.

3.7 CONTROL FUNCTION

- Heat Pump Micro Controller for controlling constant 60 ^{o}C water temperature and allow you to easily adjust hot water temperature as desire.

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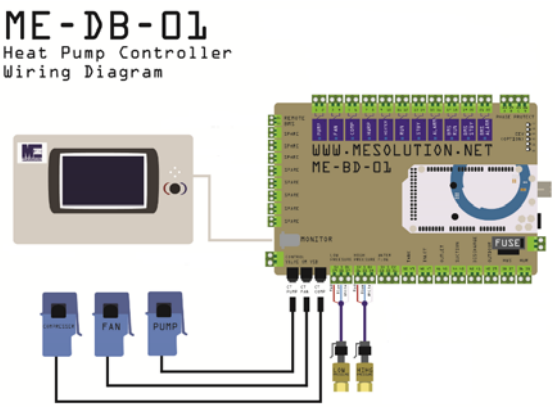
- Operating hours counter. Display accumulated total working hours of heat pump. Easily monitoring and planning for preventive maintenance.
- Data Report print out and Service Online by ME Solution program easily for management.
- 6 point temperature display inside heat pump. Provide good accuracy for heat pump performance monitoring and easily diagnosis heat pump malfunction.



DISPLAY AND CONTROLLER

- Controller reserved for external water flow safety switch.

3.8 PROTECTION FUNCTION

- High Pressure Safety Switch.
- Low Pressure Safety Switch.
- Water Temperature Overheat Safety Switch. Limit water temperature which might harm to user.
- Electrical Phases & Voltage Protection.
- Over Current Compressor Protection.
- Over Current Pump Protection.
- Over Current Blower Protection.
- Time delay for compressor protection.
- Auto-Restart Mode

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TECHNICAL DATA OF AIR SOURCE HEAT PUMP

MODEL		25kW
HEATING CAPACITY	kW.	25.4
COOLING CAPACITY	kW. (Btu/h)	20.9(71,314)
HOT WATER RECOVERY RATE	Lph	729
WATER INLET TEMP.	^{0}C	30
WATER OUTLET TEMP.		60
MAX. HOT WATER OUTLET TEMP.		70
AIR FLOW RATE	m3/hr (cfm)	4,247 (2,500)
COMPRESSOR	Type	SCROLL
	QT.	1
	Refrigerant	R-134a
ELECTRICAL	V/Ph/Hz	380/3/50
POWER AT RECOVERY RATE (Included all electrical parts)	kW	5.84
RLA (@ RECOVERY RATE)	A	12.1
FLA		17.4
CASING MATERIAL		SUS304 Stainless Steel
DIMENSION (W X D X H)	mm	880x675x1650
NET WEIGHT (approx.)	kg	245
WATER INLET	Inch	1”
WATER OUTLET		1”
CONDENSATED DRAIN		3/4”

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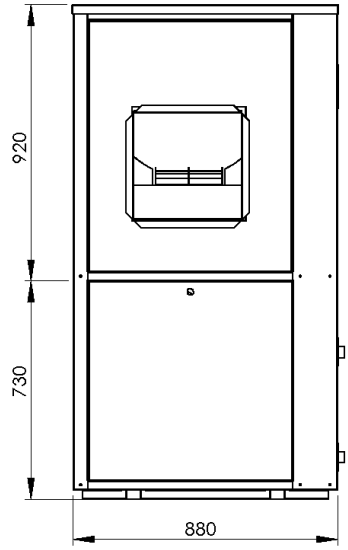
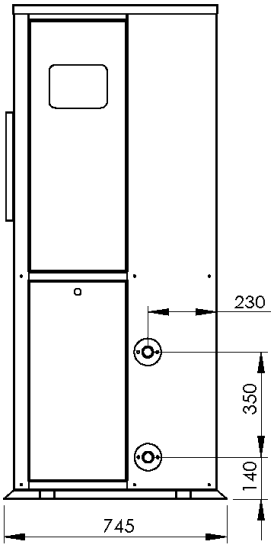
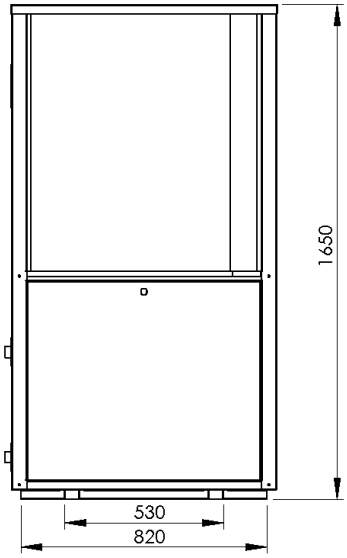
DIMENSION



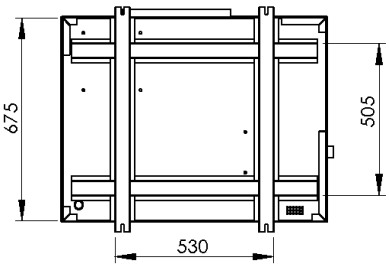
FRONT VIEW



RIGHT VIEW



BACK VIEW



BOTTOM VIEW

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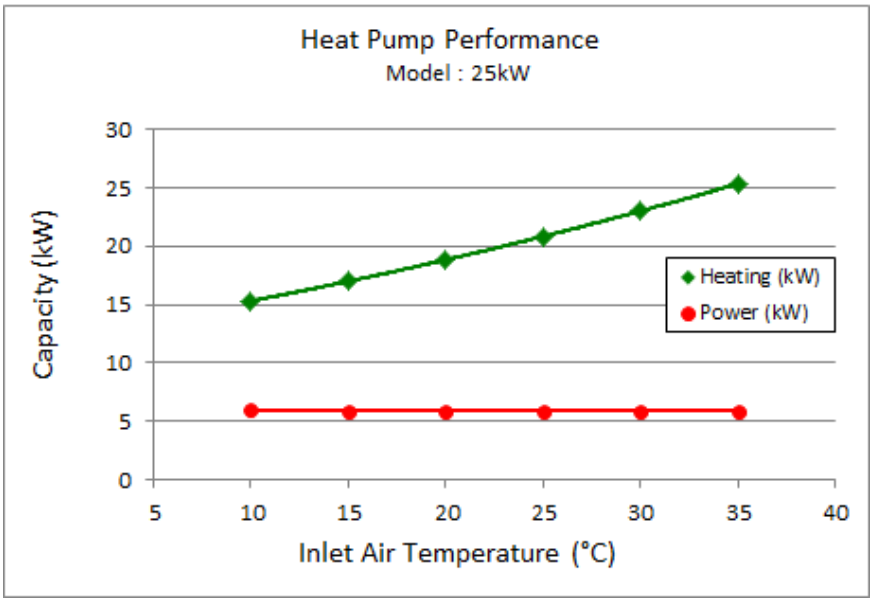
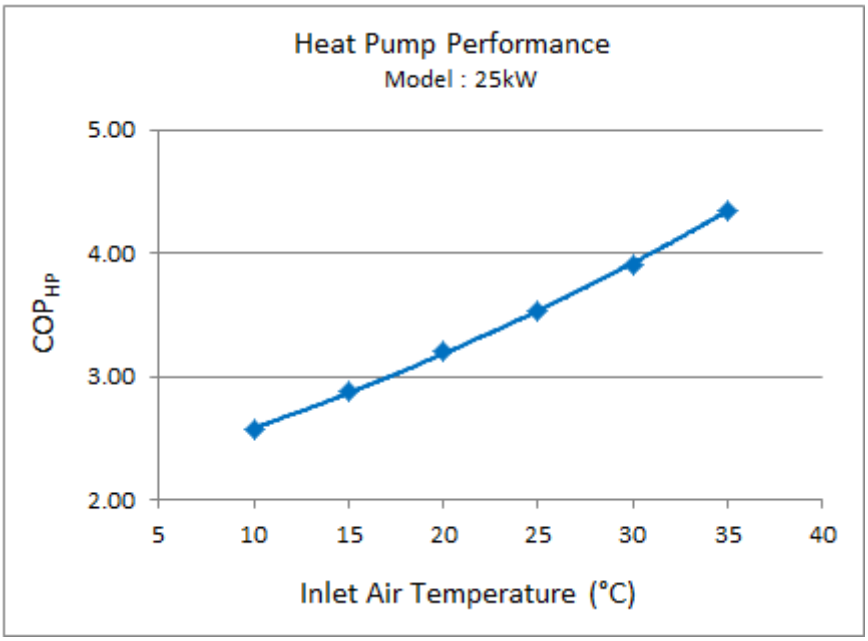
HEAT PUMP PERFORMANCE CURVE FOR 25KW





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