

ENERGY EFFICIENT HOT WATER HEATING *EVERGREEN*

air to water heat pump capacity range from 22 to 85 kW



EG 22-30



EG 45-85

Benefits of **EVERGREEN** Heat Pump

- Substantial Electrical Savings
- Uses CFC Free & Environmentally Friendly Refrigerant (R 134a)
- Fully Automatic
- Free Heat & Cold Air
- Durability & Low Maintenance

Technical Specifications

PARAMETER		MODEL	EG-22	EG-30	EG-45	EG-60	EG-85
Heating Capacity	kw		22	30	45	60	85
Input Power	kw		5.3	6.9	10.4	14.1	16.3
Input Current	A		10.7	13.8	19.7	26.8	31.1
Outlet Water Rated Temp.	°C		55				
Outlet Water Max. Temp.	°C		60				
Power Supply			415V/3P/50Hz				
Compressor	Type		"Copeland" scroll type				
	Start Mode		Directly start				
	Quantity	set	1	1	2	2	2
Water Side Heat Exchanger	Type		Shell and tube heat exchanger	Shell and tube heat exchanger	Shell and tube heat exchanger	Horizontal shell and tube heat exchanger	Horizontal shell and tube heat exchanger
	Water Flow	m ³ /h	3.7	5.2	7.7	9.9	14.6
	Water Pressure Drop	kPa	<50	<45	<55	<69	<70
	Pipe Size	mm	DN25	DN32	DN32	DN40	DN50
Protection			High pressure and low pressure protection, anti-freezing protection, high temperature protection, too big of the water temperature difference for outlet and inlet, overload protection, phase protection, reverse phase protection, water flow protection.				
Refrigerant	Type		R134a				
	Quantity	kg	3.0	4.6	3.5 x 2	6.7 x 2	10.2 x 2
Dimension (W x D x H)		mm	818 x 818 x 1075	818 x 818 x 1075	1460 x 910 x 1480	1460 x 910 x 1480	2060 x 1100 x 2070
Net Weight		kg	160	210	295	418	880

Testing Condition : Water temperature 30°C / Air temperature 30°C

The product parameters and appearance may have some differences from the real product, please refer to the name plate on the real product. Our company keeps the right to interpret.

For any enquiry please contact:

ADVANCE THERMAL ENGINEERING SDN. BHD.

27, JALAN BP 5/4, Bandar Bukit Puchong, 47120 Puchong, Selangor Darul Ehsan.

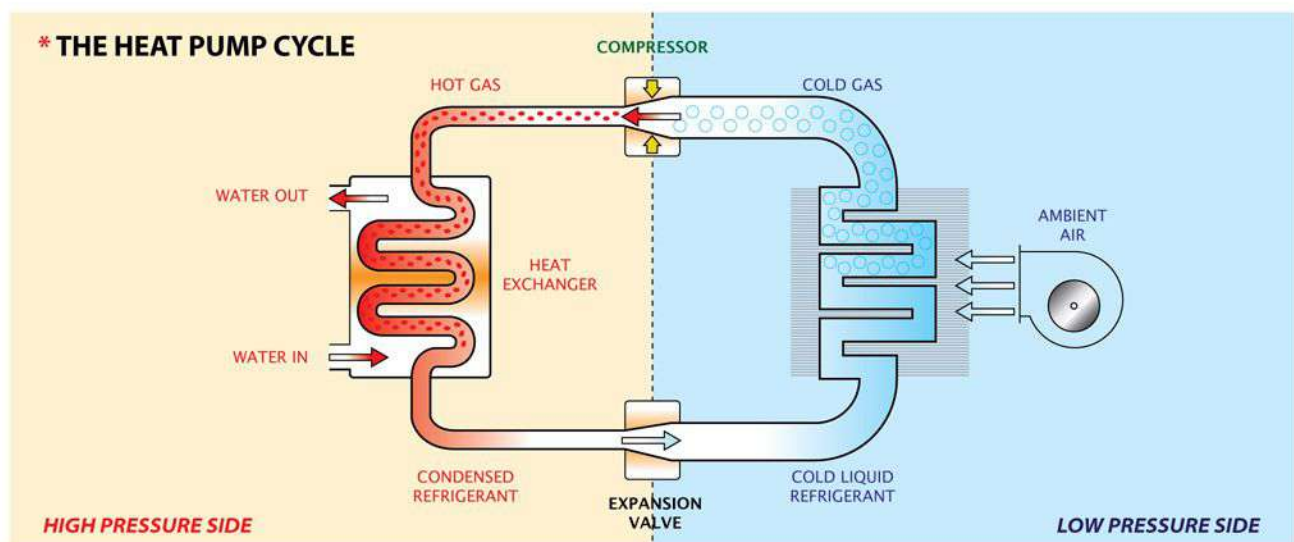
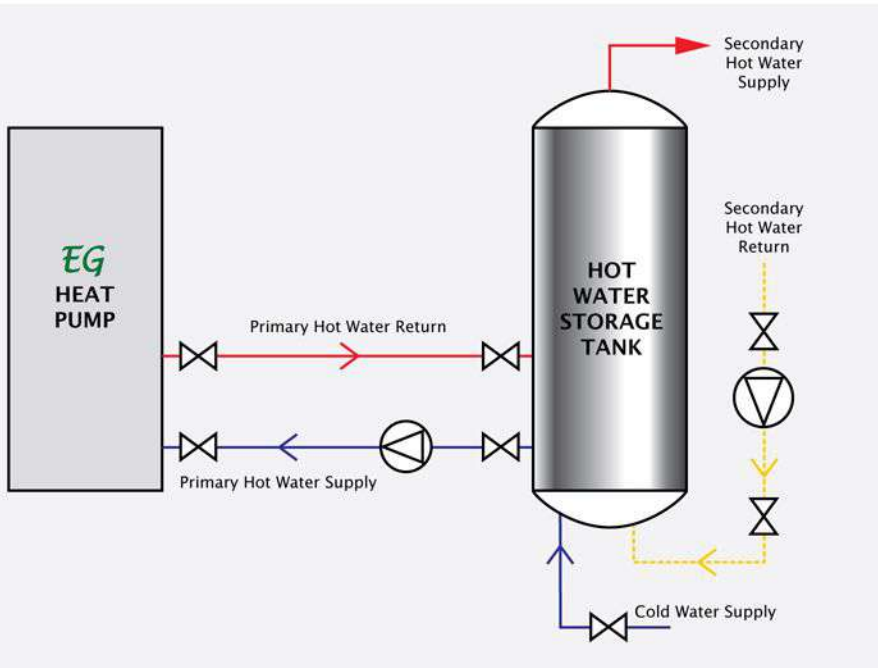
Tel: 03-8060 5473/8061 2663 Fax: 03-8064 2183 Email: athermal@atesb.com.my

EVERGREEN hot water heat pumps are a quality range of package units specifically designed for heating hot water up to 60°C

HOW EVERGREEN AIR TO WATER HOT WATER HEAT PUMP WORKS

EVERGREEN hot water heat pump is a machine that extracts energy from an air source and upgrades this energy to useable form of heat that is rejected to a water system. Unlike other water heating systems EVERGREEN heat pump is capable of delivering up to 4 to 5 times more energy than it consumes and EVERGREEN heat pump does not need the sun to shine in order to achieve this.

EVERGREEN heat pumps are supplied as weather proof packaged units that contain a refrigeration circuit as illustrated below. By no means a strange invention, the refrigeration circuit utilizes an EVAPORATOR that is capable of absorbing energy from air that passes across it. By use of a COMPRESSOR that also pumps refrigerant around the system, this energy is upgraded to useable form of heat, typically allowing water to be heated to 60°C. The collected heat is rejected to a water circuit by heat exchanger.



Standard Features of **EVERGREEN** Heat Pump

General

When you think of heat pump, **EVERGREEN** is the answer to your total hot water solution and when you want to specify quality heat pump, specify **EVERGREEN**. These packaged air-source heat pumps are factory wired, charged and tested. Its low operating noise level, high output heating capacity, high efficiency with environmentally safe refrigerants are integrated into the design.

Refrigerant

"Environmentally friendly" R134a refrigerant. 60°C and higher water temperatures are easily achievable with this new refrigerant technology.

Compressor

State of the art scroll compressor operates at high efficiency with low noise and vibration. Easy accessible for servicing through lift off panel.

FAN

Direct driven propeller fan with vibration isolating motor mountings minimize noise and vibration.

ENCLOSURE

Entire housing is made of powder coated steel for corrosion resistance. Weatherproof design is excellent for outdoor installation.

WATER PUMP

The Stainless Steel impeller circulating pump is corrosion resistant and has high head capability at design flow rates.

