Technical Data

ATMOS® ECO280	
Capacity (litres)	280
People per Household	Up to 9
Coefficient of Performance (COP)*	6.6
Rated Power Input@240V (W)	690
Electric Heating Unit Rating@240V (W)	2400
Recommended Electrical Circuit (Amp)	15
Set Temperature (°C)	60
Operating Ambient Temp. (°C)	-6 to +43
Recovery Rate (L/h)	69
Dimensions HxWxD (mm)	1832x696x725
Weight (Empty/Full) (kg)	122/402
Refrigerant (340gms)	R290
Noise level dB(A) @ 1Meter	47
IP Rating	IP24
Inlet & Outlet	Rp 3/4
TPR Valve setting (kPa)	1000
Maximum Main Supply Pressure (kPa)	680
Warranty**	7 years

* AS/NZS5125 Performance Test@33°C Ambient air temp & 10°C to 60°C water temperature.
Note: The actual COP of the product will be impacted by various factors, including the ambient air temp. and cold water inlet temp. at the place of installation and time of operation.

** 7 years supply on cylinder, 3 years supply on sealed system, 1 year on all other parts.

Remarks: Due to product innovation, all specification are subjected to change by manufacturer without prior notice.

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KTS Trading Sdn. Bhd.

Kuala Lumpur : 03 - 8942 3113
Sarawak Region : 084 - 325 033
Sabah Region : 088 - 710 953
Helpline : 010 - 921 2811

Product Video:

GET SMART
GET SOLAHART

Solahart®

Heat Pump Water Heater
Atmos® ECO280

CAPACITY 280L

COEFFICIENT OF PERFORMANCE 6.6

ENERGY SAVING 80%

CYLINDER WARRANTY 7 yrs

Powerful & Efficient

AUSTRALIAN HOT WATER
Since 1953

Solahart®

Renewable Ultra Low GWP Heat Pump

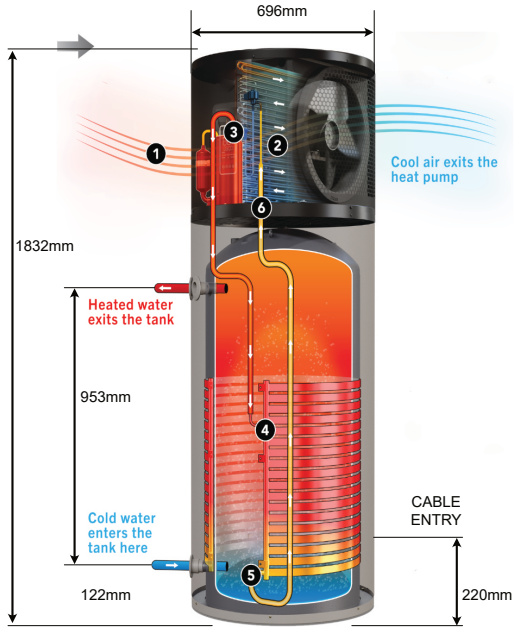
Solahart Atmos® Eco280 Air Source Heat Pump manufactured on Australia production line accordance with international quality standard and suitable for Malaysia climate.

The 280 litres Atmos® Eco using heat pump technology because of its superior saving heating energy up to 80% compared to conventional water heater and provide stable large volume of hot water when needed without waiting time.

As central hot water system make it perfect solution for projects such as villas, resort apartment, building and clinic…

How It Works

1. Fan draws in the surrounding air containing heat energy, across the evaporator.
2. Evaporator coil absorbs the heat air and turn the liquid refrigerant into gas.
3. Compressor pressurize the refrigerant into a hot gas.
4. The hot gas inside the microchannel heats the water inside the coil-wrapped tank.
5. The refrigerant reverts back to a liquid state after heating the water and continue to the evaporator for the process to start again.
6. The cycles continue until the set target temperature is achieved.



DIMENSIONS

ATMOS® ECO280 PERFORMANCE SPECIFICATIONS

Ambient Air Temp	Relative Humidity	Average Heating Capacity (kW)	Recovery Rate @45°C rise (L/h)	Average Coefficient Performance (COP)
6°C	87%	2.1	40	3.8
19°C	66%	2.9	56	5.2
33°C	39%	3.6	69	6.6

ESTIMATED COST SAVINGS

Type	Atmos® Eco280	Solar Water Heater	Electric Water Heater
Heat Source	Electricity	Solar + Electricity	Electricity
Heat Value	1kWh = 860kcal or 3,600,000 joules or 3,412 BTU		
Efficiency	660%	1/3 times use of electric heater	100%
Energy consumption per day*	1.38kWh	4.80kWh	6.00kWh
Cost	RM 0.51/kWh		
Cost per day	RM 0.70	RM 2.45	RM 3.06
Annual cost	RM 255.50	RM 298.10**	RM 1,116.90

*Operation of 2 hours. **1/3 of Annual electric consumption bill (cloudy day or over-consumption).

Features & Benefits of Atmos® Eco280

Coefficient of Performance (COP)

COP 6.6 indicate 6.6 times savings compared to electric water heater.1kW electricity used will produce 6.6kW of water heating output. The higher the COP number, the more efficient the heat pump is.

Enamel Lined Water Tank

The enamel coating and steel plate technology reduce the risk of corrosion and water leakage, ensuring high water pressure is maintained for year.

Microchannel Technology

Microchannel is wrapped outside of the cylinder to eliminate direct contact with harsh water, and this allow larger coverage of surface area that resulting faster hot water recovery and uniform heating.

Smart LED Display

For easy reading the system in-built with ultraviolet protected LED display. Performance indicators for easy maintenance and user-friendly multiple operate control settings.