

# ECS Air Sourced Heat Pumps

## The Science Behind Heat Pumps...

The principle is very similar to the operation of a refrigerator, but in reverse. There is latent heat energy in the air and this is transferred to the heating system.

The heat pump system contains a fan that sucks air through an evaporator. The evaporator contains extremely cold liquid refrigerant, which travels through a copper pipe. The air passing through this evaporator contains latent heat which is absorbed by the refrigerant. A compressor then pulls the refrigerant inside where it is naturally compressed.

As the pressure rises, the temperature increases. From here the refrigerant travels to the condenser, where the heat from the refrigerant is transferred to the water supply tank. An expansion valve finally provides the pressure reduction to the refrigerant and the cycle starts again.



## Energy and Cost Saving Solutions

Heat Pump hot water systems produce significantly less greenhouse gas emissions than electric storage systems.

Once your ECS hot water system is installed you may be eligible for government incentives. This may make ECS an even more cost effective option.

And here's more good news, an ECS hot water system can provide up to 70% annual savings\* on your water heating costs.\* Your ECS system will pay for itself in no time.

\*Dependent on model and location

## No Interest Ever Repayment Plan\*\*

You have the option to payoff your new ECS system by monthly direct debit for up to two years interest free.

Simply pay 25% of the total up-front cost then repay the rest via monthly direct debit over two years. Talk to your ECS consultant for full details.

## The ECS Advantage

- Simple installation ... as easy as 1,2,3. Connect the tank, connect the power and switch on!
- Generous hot water capacity with excellent delivery and recovery.
- Up to 70%\* annual savings on your water heating costs.
- Environmentally friendly hot water without the need for any roof collectors.
- Very low running costs.
- Low noise levels (50dba). The ECS heat pump is significantly quieter than the competition.
- Easy to install.
- In-built freeze protection - protects the heat pump from freezing.

\*\*Conditions Apply Information contained in this brochure was correct at date of print. As continued product development is occurring, specifications may change without notice.



80 Scott Street, Bungalow QLD 4870 p: [07] 4041 4984 f: [07] 4041 4905

325 Ingham Road, Garbutt QLD 4814 p: [07] 4779 9869 f: [07] 4779 9617

enquiries@ecsaust.com.au [www.ecocaresolar.com.au](http://www.ecocaresolar.com.au)



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NEXT GENERATION SOLAR – *The Smarter Way To Save!*

**One of the most efficient methods of heating water!**

Australian Owned ECS Heat Pump hot water systems effortlessly capture latent heat energy abundant in the air and transfer that heat energy to a storage tank. You'll cut your energy bills and help save the environment.

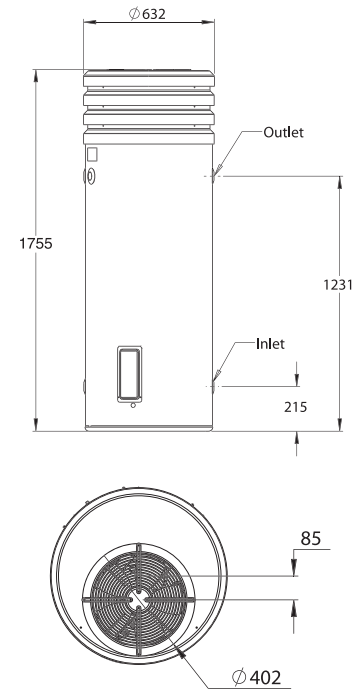
## Technical Information

	<b>250L</b>
<b>Tank</b>	
Tank Storage Capacity	250L
Tank Warranty	5 Yrs
Net Weight Empty	113 kg
Dimensions (mm) Overall height	1755 mm
Overall Diameter	632 mm
Power Consumption (General Tariff)	1.2 kW
Max Water Supply Pressure	800 kPa
Relief Valve Pressure	1000kPa
Free Air Flow	1500 m <sup>3</sup> /h
Rated Voltage	240V ac
Evaporator Area	0.36 m <sup>2</sup>
<b>RECS Table – Heat Pump</b>	<b>RECS Zone</b>
PRODUCT CODE: D2FH00000C	1 2 3 4
250 Litres / Airoheat Subzero	30 26 30 30
<b>Capacity (Litres)</b>	<b>People</b>
250	3-5

Not suitable for installation in alpine areas or areas above 1000m.

\*Figures based on 45°C

**Family size capacity**



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