

# INTRODUCING THE NEW SOLAHART ATMOS-FROST HEAT PUMP



## THE SMART WAY TO CREATE HOT WATER OUT OF THIN AIR

**Solahart Heat Pumps have proven to be a smart choice for Australians who may not be able to go solar but are looking for an energy-efficient alternative to an electric water heater.**

The new frost-tolerant addition to the Solahart Atmos Heat Pump range can be installed in almost any location in Australia, as it is suitable for harsh water, cold climates, and tropical conditions. Atmos-Frost uses the surrounding air to heat water. It's a reliable, efficient way to reduce water heating energy consumption and cut greenhouse emissions without the need for solar collectors.



**FROST  
TOLERANT**



**ENERGY  
EFFICIENT**



**NO SOLAR  
COLLECTORS**

**GET SMART  
GET SOLAHART**

 **Solahart**<sup>®</sup>  
HOT WATER *Free* FROM THE SUN<sup>®</sup>

# HOW ATMOS FROST WORKS

Solahart Atmos-Frost is an integrated heat pump with 270-litre storage capacity and an advanced wrap-around micro-channel heat exchanger for more efficient water heating. This technology also makes the heat pump suitable for harsh water areas as the heat exchanger is not in contact with the water. Designed to work in almost any location in Australia, it comes with a boost mode to ensure you always have hot water in very cold conditions, and a de-icing function to improve performance in frost conditions.



1

Heat is absorbed into the refrigeration system from the outside air and drawn in across the evaporator.

2

Heat from the refrigeration process is transferred to the water via a microchannel heat exchanger

3

This process continues until the water reaches the set temperature

## WHY ATMOS FROST IS A SMART CHOICE

Solahart Atmos-Frost has been designed and tested to withstand the harsh Australian conditions with multiple inbuilt protective features.

### COP OF 4.5

Coefficient of Performance (COP) of 4.5\* making it a highly efficient water heater to help reduce energy consumption.

### Enamel-Lined Water Tank

The high-quality durable enamel coating helps to protect the tank in harsh water quality areas.

### Micro-channel Technology

Provides a larger contact area to maximise heat transfer efficiency. The wrap-around design of the micro-channels enables installation in harsh water areas.

### Side Fan Design

Allows for maximum airflow and protection from the rain.

### Heavy Duty Top Cover

The ASA<sup>^</sup> top cover withstands all Australian weather conditions.

### Smart LED Controller Display

A bright interactive LED touchscreen display putting control at your fingertips.

To find out more call 1300 769 475 or visit [solahart.com.au](http://solahart.com.au)

## TECHNICAL SPECIFICATIONS

  
Atmos Frost

Model Number	270HAV
Suitable for No. of People (moderate climate)	2-5
<b>Technical</b>	
Dimensions H x W x D (mm)	1825 x 730 x 760
Weight Empty (cartoned) (kg)	145
Water Tank Volume (L)	270
Maximum Rated Power Input @ 240 V (W)	3600
Rated Heat Pump Power Input (W)	985
Refrigerant	R134a
Element Size (kW)	2.4
Boost Capacity (L)	195
Coefficient of Performance	4.5*
<b>Water Connections &amp; Settings</b>	
Water Inlet/Outlet Connections	Rp 3/4
Temperature Pressure Relief Valve Setting (kPa)	1000
ECV Setting (kPa) (not supplied)	850
<b>Maximum Mains Supply Pressure</b>	
With ECV (kPa)	680
Without ECV (kPa)	800

<sup>^</sup>Acrylonitrile Styrene Acrylate (ASA) is an amorphous thermoplastic with improved weather resistance.

\*A Coefficient of Performance (COP) of 4.5 was measured under test conditions with an air temperature of 19°C, Relative Humidity of 66%, and heating the water in the water heater from 15°C to 60°C. The average heating capacity was 3.9kW.

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