Vaillant: aroSTOR

For all those who are looking to contribute to a greener future.



aroSTOR floor standing domestic hot water heat pump









Vaillant is the leading premium brand for sustainable and responsible system solutions, ensuring you experience comfort for your home. Our products have high energy efficiency retings and low emissions, with an enviable reputation for performance, quality and reliability.

Introducing the domestic hot water heat pump with natural refrigerant: **The aroSTOR**

The new aroSTOR domestic hot water heat pump. It is perfect for hot water requirements in larger homes or small businesses where there is high hot water demand.

This new Vaillant heat pump is incredibly efficient and sustainable, using thermal energy which can be collected via an external air duct. It can also recycle hot air from within the room where it's installed, provided there is sufficient ventilation. The only other energy needed is the electricity to run the appliance.



Benefits at a glance

- Domestic hot water comfort for up to 6 people
- Highly energy efficient and reliable COP of >4.0, ErP label of A+
- Extremely quiet operation
 Advanced insulation and use of rubber on compressor
 Volume: 48 dB, Sound pressure level (1m): 36 dB
- 1.2kW titanium electrical back-up heater
- Outdoor and Indoor Installation with ductable pipes which enable heat /air transfer to minimise energy loss
- High Quality Material components / low maintenance
 Warranty: Stainless steel tank 5 years
 Other components 2 years

Controls

The aroSOTR comes with its own sleek control unit which has a simple dial and push button control. The control allows for various pre-set auto and manual modes. The control also shows the operation mode and the actual water temperature inside the tank.



Eco-friendly DHW solution

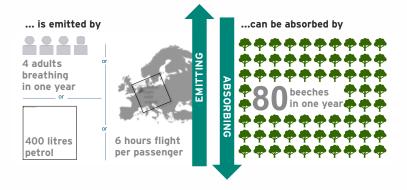
As a DHW HP the aroSTOR wins energy for efficient hot water generation from ambient or outside air. With R 290 Refrigerant the aroSTOR today fulfils already the upcoming flu-gas regulations and contributes to the worldwide environmental goals.

Natural refrigerant

Vaillant's aroSTOR heat pumps use only R290 natural refrigerant. This is the refrigerant used in everyday household appliances such as domestic fridge freezers. The use of this refrigerant means that the aroSTOR is future-proof, being already complaint with the Montreal and Kyoto protocols.

The use of R290 means the aroSTOR has an incredibly low Global warming Potential (GWP) of just 3 and an Ozone Depletion Potential (ODP) of zero. R290 gives excellent performance for water heating.

One ton of CO₂



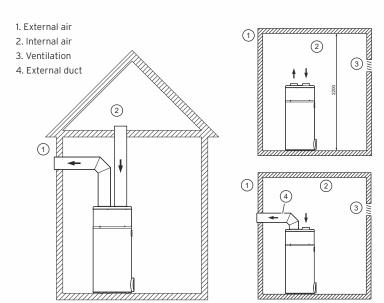
Alternative refrigerants (overview):

Hypothetical CO₂-equivalent of MagnaAqua 270Iwith alternative refrigerants

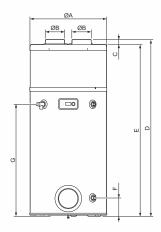
Refrigerant	GWP	CO ₂ equivalent aroSTOR VWL
R290	3	0.00045 t CO ₂
R32	675	0.10125 t CO ₂
R134a	1,430	0.21450 t CO ₂
R407c	1,774	0.26610 t CO ₂
R410a	2,088	0.31320 t CO ₂

Dimension and connections

aroSTOR heat pump 270 litres



Product dimensions and connection dimensions



Unit dimensions and connection dimensions

	aroSTOR 270
А	634mm
В	158mm
С	40mm
D	1,783mm
E	1,743 mm
F	151 mm
G	1,249

Technical Data

General	
Nominal capacity	270 Litre
Outer diameter	634 mm
Weight (when empty)	68 kg
Weight (filled)	338 kg
Cylinder material	Stainless steel
Heat insulation/External Cover	Polyurethane foam 50 mm
Thermal losses 55°	1.77 kW/ 24h
DHW temperature range (HP Mode)	30°C to 60°C
Maximum pressure	6 bar
Max. Hot water temperature (hp + back up heater)	65° C

Electrical Specifications	
Rated Input - hp mode	0.7kw
Heating Output - hp mode	2.8kw
Electrical back up	1.2kw
Rated Input - hp + back up	1.9kw
Heating Output hp + back up	4.0 kw
Re-Heating Time hp mode (35 degrees Delta)	5 hours
Re-Heating Time hp + back up (35 degrees Delta)	3 hours
Wire size	4 sqmm (PNE)
MCB/Socket	20 Amps
Voltage and Frequency	230V - 50Hz

Refrigerant type	R 290
Minimum and maximum air temperatures	-7 to 45° C
Sound power level	52dB
Coefficient of performance	4.0
ErP rating (A+ -F)	Α+

Exclusive National Sales & Service Partner - India





Others

1800 266 2782

cs@aquagreensolutions.in www.aquagreensolutions.in