

Thermodynamic water heater (outside air) **ODYSSEE SPLIT**

Le Marché

Objectives of Atlantic

Strategic objectives

Take position on an emerging market with few specialised leaders

Creation of a complete range of thermodynamic water heaters :

- **AMBIANT AIR monobloc**: ODYSSEE
- **OUTDOOR AIR monobloc**: ODYSSEE gainé
- **OUTDOOR AIR Split**: ODYSSEE SPLIT VM 200
ODYSSEE SPLIT VS 300
- **AIR EXTRACTION** : AERAULIX



Unité
extérieure



Odyssee
Split VM200



Odyssee
Split VS300



Odyssee
(gainable)



Aéraulix
(Sortie Février 2011)



Le Produit

- Presentation
- Detail of supplies
- Packing
- Accessories
- Product advantages

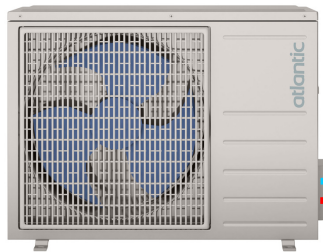


Presentation

VM 200 Vertical
Wall Mounted
200 litres



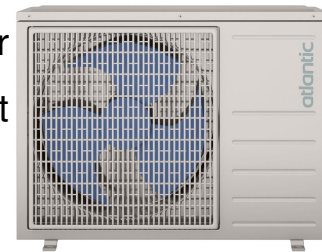
Outdoor
Unit



VS 300
Floorstanding
300 litres



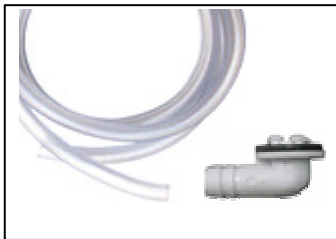
Outdoor
Unit



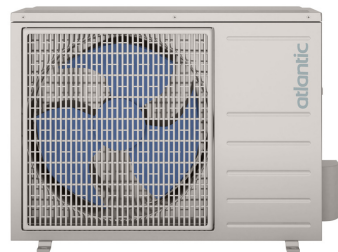
Detail of supplies



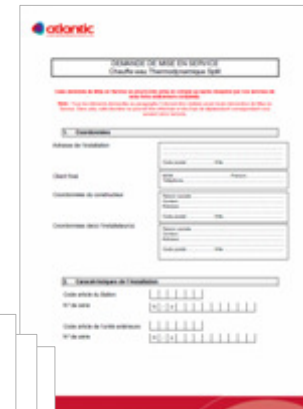
Insulation connection



condensat evacuation



Manual



Commissioning requirement

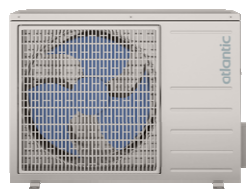


Complete offer

3 references for a package supply



1 reference
Water heater



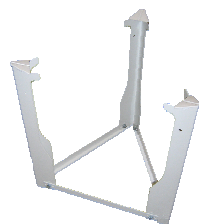
1 reference
Outdoor Unit



1 reference
Refrigerant tube
5M 3/8 - 1/4



Options



Support Odyssee Split VM 200



Feet Outdoor Unit PVC



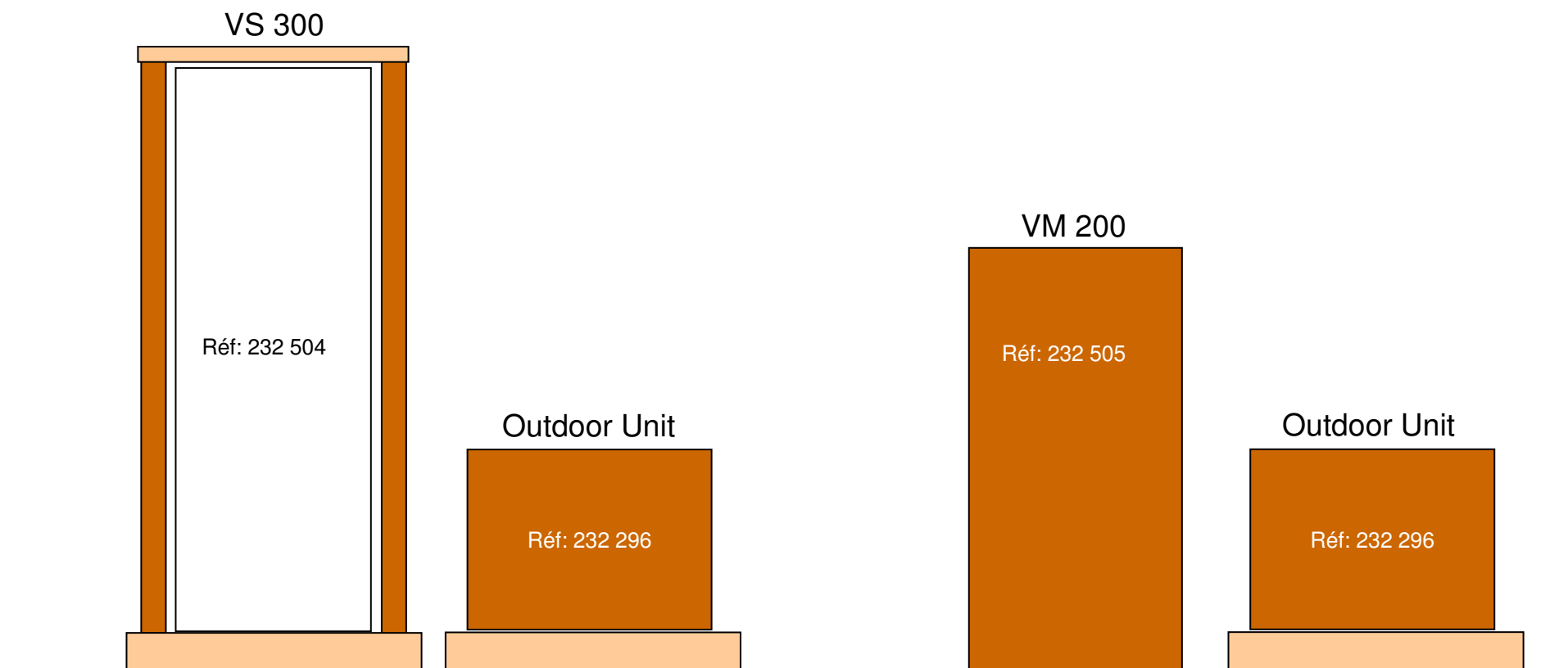
Wall Support outdoor unit



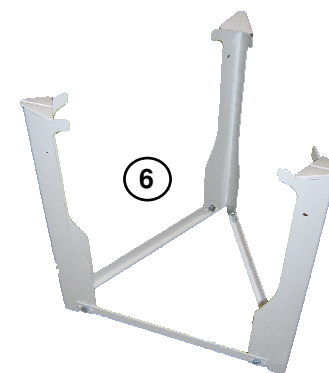
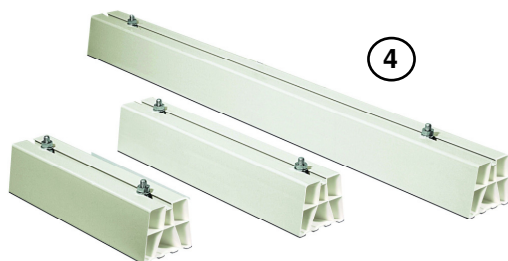
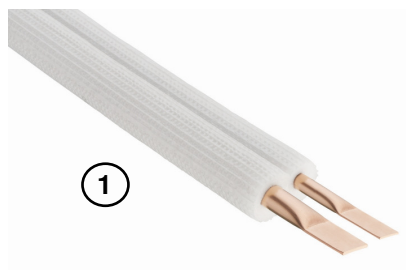
Ground support adjustable



Colisage



Accessories



	Désignation	Code	Prix € HT
①	Refrigerant tube 5meters 3/8 – 1/4	809035	74
②	Wall Support for outdoor unit	809521	37
③	Ground Supports adjustable for outdoor unit	809538	44
④	Ground Support PVC for outdoor unit	809532	18
⑤	4 plugs for ground support PVC	809540	8
⑥	Support Odyssee Split VM 200	232298	35



Product advantages

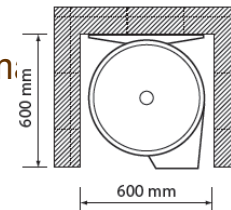


An energy saving product: • **70%** savings compared to a classic water heater



A compact product:

- **Minimum space requirement:** water heater takes the space of conventional water heater, connections with small diameter, easy to install



A silent product:

- **Silent working** inside the living area
- **34 dB(A)** at 5 meters for outdoor unit



Product Arguments

User

Comfort for sure

- ✓ DHW up to 62 °C
- ✓ Function BOOST
- ✓ Low noise level (34 dB(A) at 5 meters from outdoor unit)

Energy savings

- ✓ Electric power consumption of a electric WH reduced by factor 3
- ✓ Possibility to work in reduced cost periods
- ✓ Return on investment very quick (4 years in average)

Protection for environment

- ✓ Clean and renewable energy
- ✓ CO2 emissions reduced (10 times less than a fuel oil heater)

Extended product life time

- ✓ Permanent maintenance free anti-corrosion protection: ACI
- ✓ Long life of heating element in all water types: ceramic element

Maintenance contract possible



Product Arguments

Specifier

Performant product

- ✓ High COP : très bon résultat dans simulation Titre V - RT 2005 (*3.8 pour un air à 15 °C*)
- ✓ Low sound pressure (34 dB(A) at 5 meters for outdoor unit)
- ✓ Certified NF Performance

Competitive price

- ✓ Prise en compte du coût de la mise en service dans détermination du PPHT matériel

Easy to fit into the living area

- ✓ Low space requirement
- ✓ No additional space requirement for refrigerant connection or air entry/exit

Low impact on construction permeability

- ✓ Refrigerant conducts with small diameter

Product Arguments

Installer

Standard refrigerant material

- ✓ Flare connections already used in AC and heat pump
- ✓ Standard refrigerant tubing

Easy to install as replacement of a electric water heater

- ✓ Piping distances identical to mainstream electric water heaters

Training

- ✓ Formation certifiant de frigoriste
- ✓ Formation PAC, module chauffe-eau thermodynamique

Commissioning

- ✓ Outdoor unit preloaded with refrigerant, easy installation
- ✓ Commissioning can be proposed as additional service

Distributor

Same outdoor unit for both capacities : performant stock management

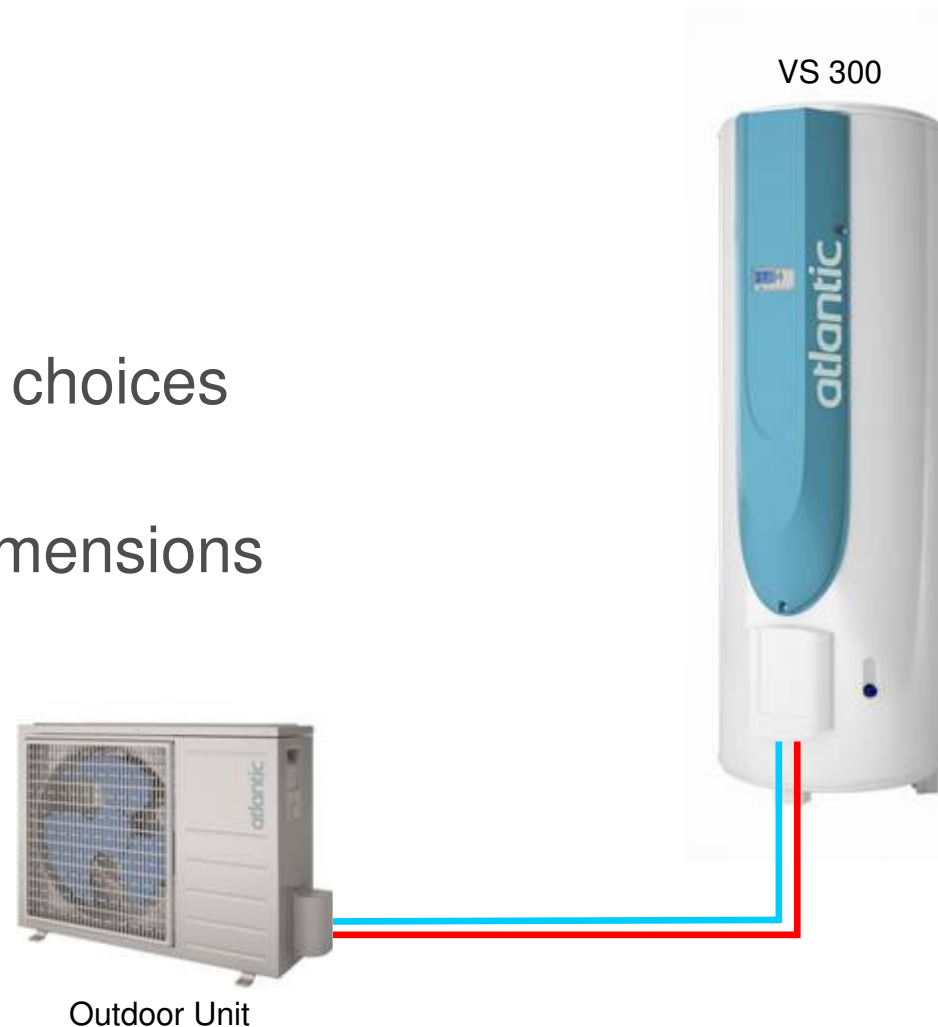
VS 300 Split model packed on pallet with shrink film : protection and visibility

Easy storage of VM 200 : less space required



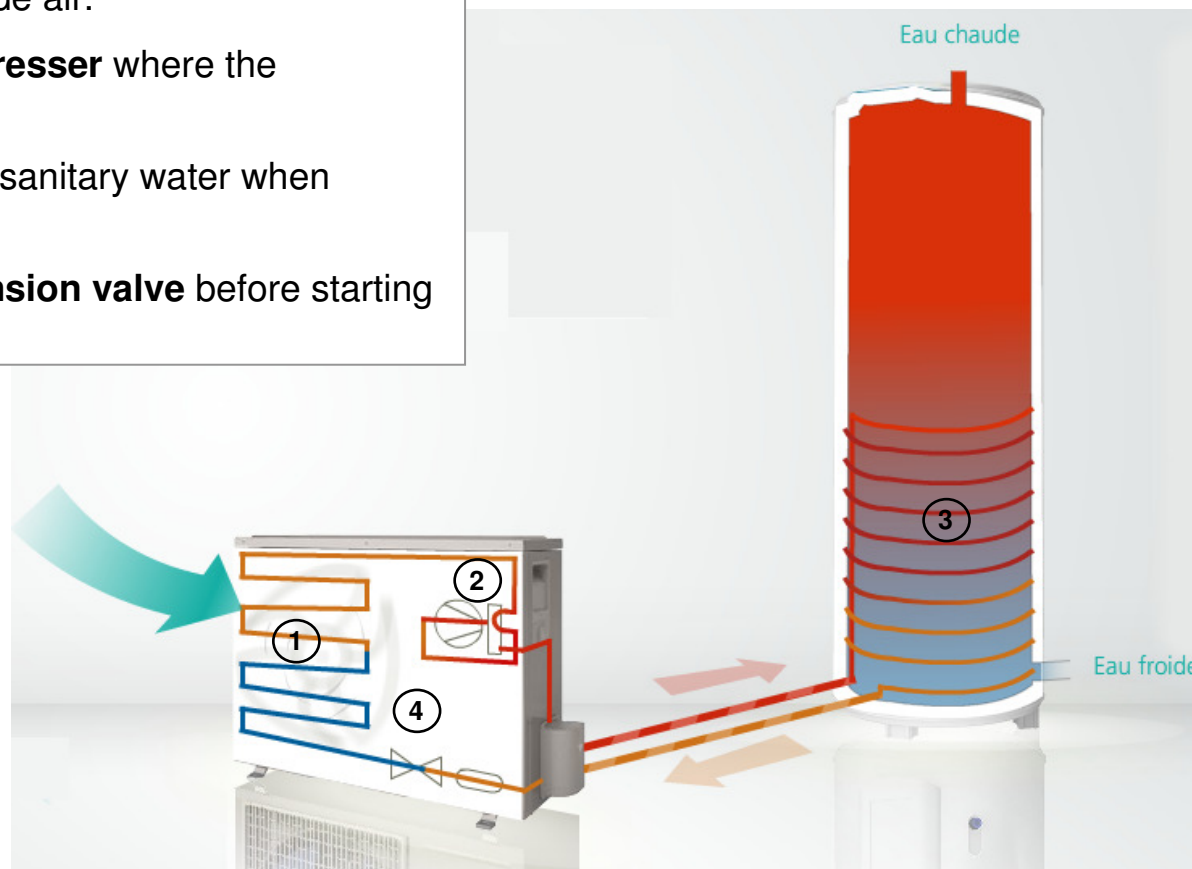
Technical Characteristics

- Working Principal
- Cut-through & Technological choices
- Regulation
- Technical Characteristics & dimensions
- Installation possibilities



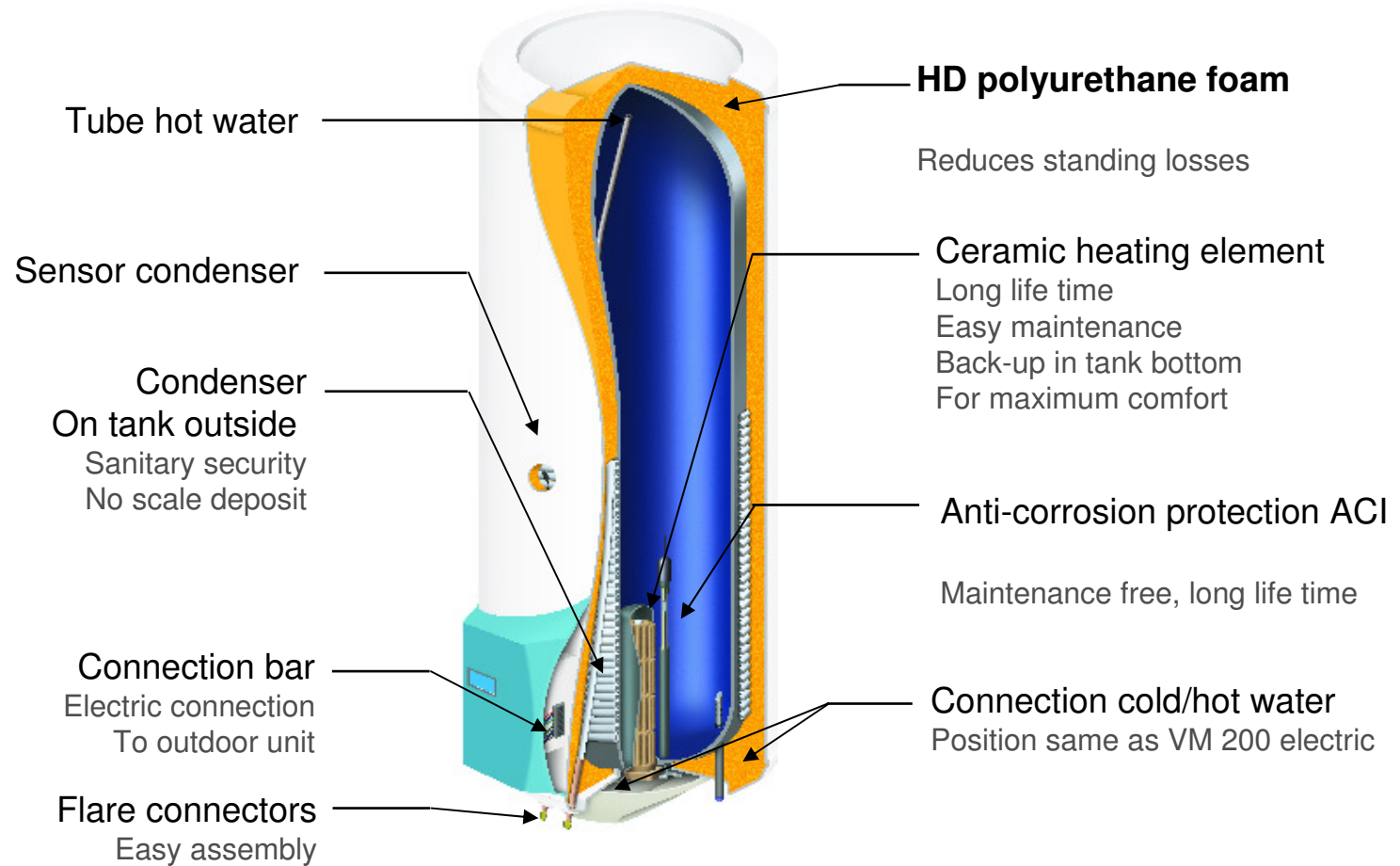
Working Principle

- ① The refrigerant circulates into the **evaporator** where it captures the calories in the outside air.
- ② It is compressed in the **compressor** where the temperature increases strongly.
- ③ It transfers the calories to the sanitary water when flowing through the **condenser**.
- ④ It is cooled down in the **expansion valve** before starting another cycle.



Cut-through

VM 200



Cut-through

VS 300

Electric back-up

Ceramic
Easy maintenance & life time

Aluminimu Condenser

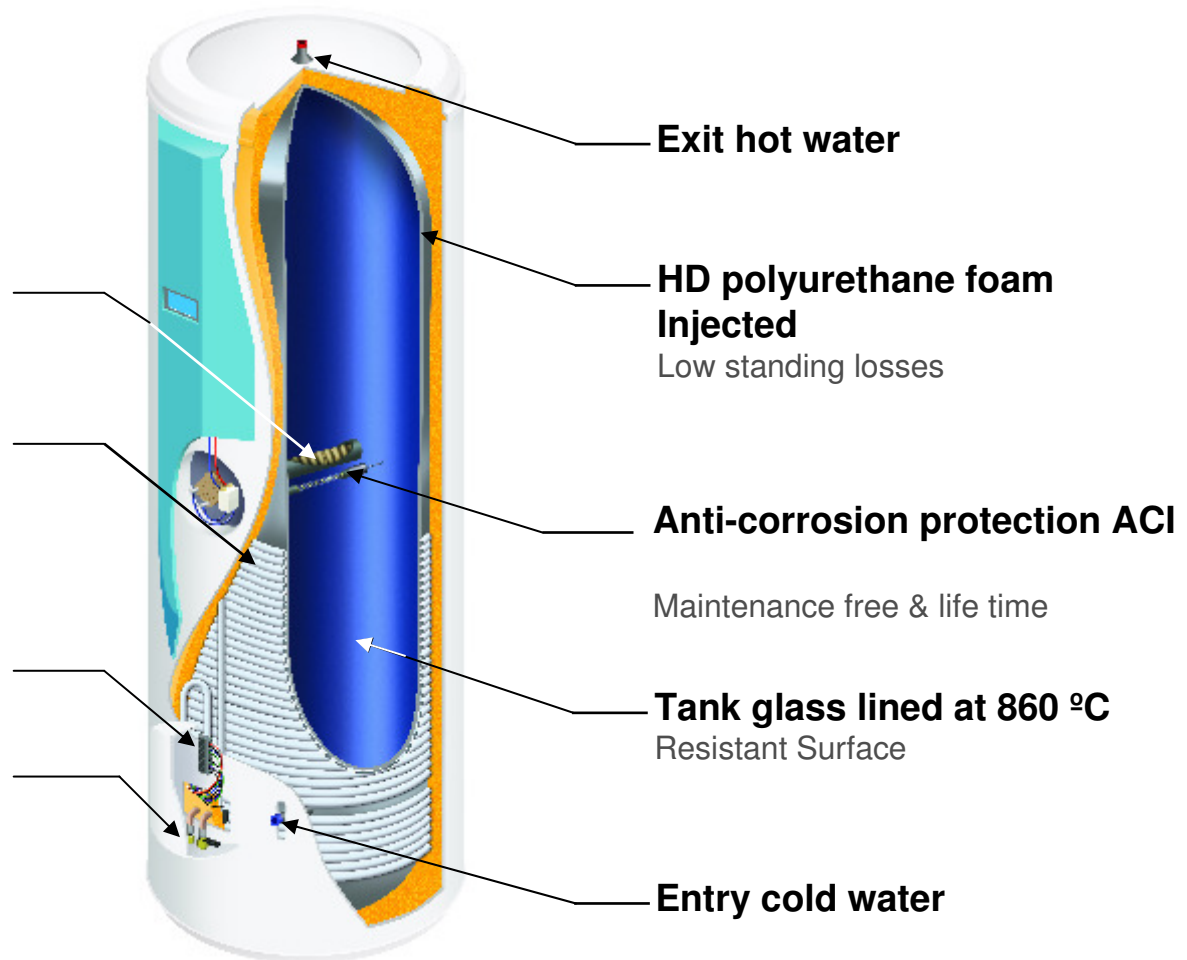
Outside the tank
Sanitary security
No scale

Connection bar

Electric connection
To outdoor unit

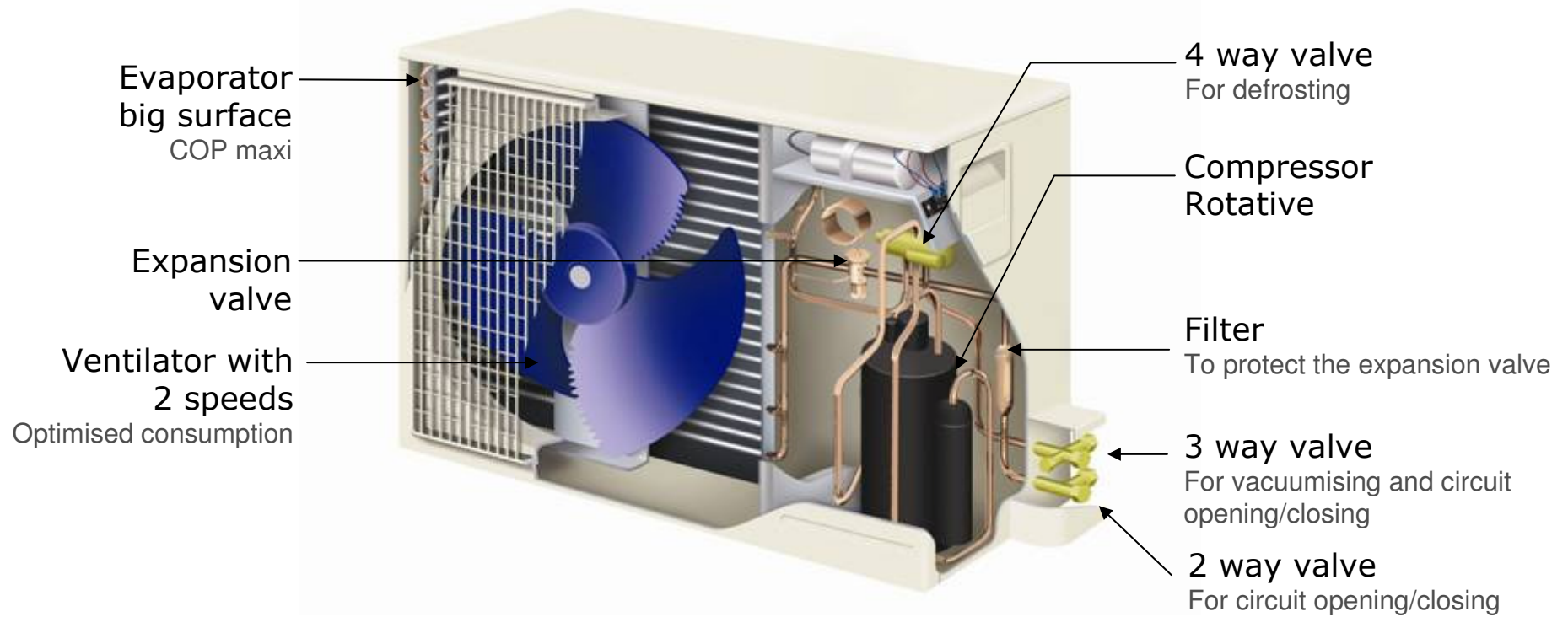
Flare connections

Hydraulic connection to out door unit
Easy installation



Cut-through

Outdoor Unit



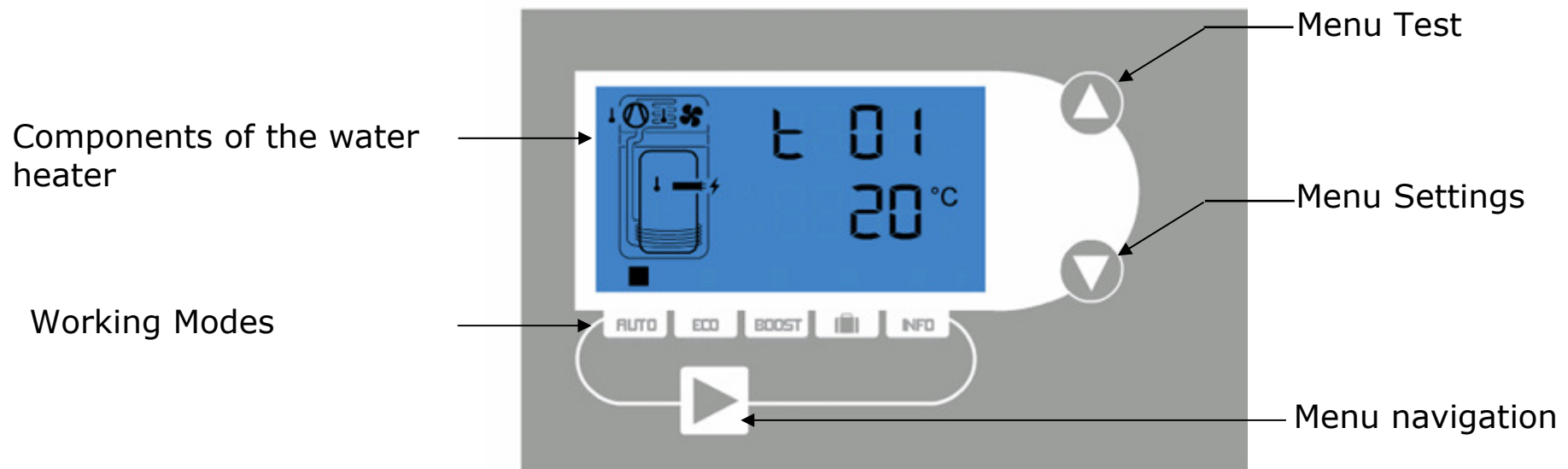
Controls

Intelligent control

Interface on VS 300 and VM 200

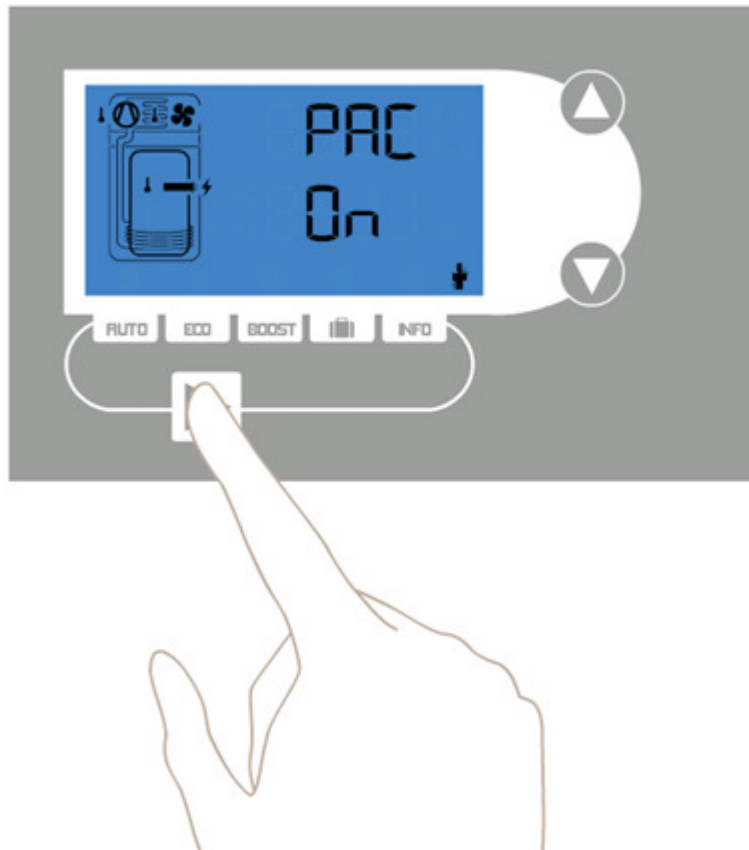
Ergonomical and intelligent (optimise operation during low cost hours to maximise savings)

5 working modes : Auto / Eco / Boost / Absence / Info



Controls

Working Modes



1 button to choose your comfort

AUTO: the user wants best comfort
Heat pump and electric back-up can work

ECO: the user wants savings
Only the heat pump can work

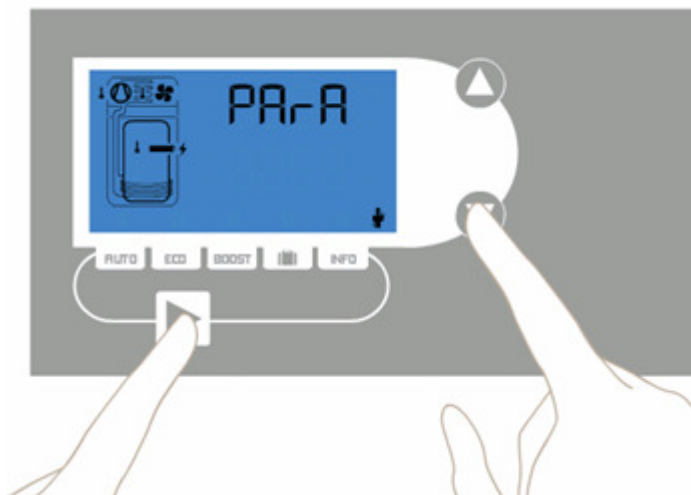
BOOST: the user wants very much hot water immediately
The control starts a complete heat-up of the tank

ABSENCE: the user is away from home
The tank is maintained in frostfree temperature range and heats-up the day before user comes home to offer the best comfort.

INFO: the user wants informations about the water heater
Shows the water temperature, room temperature and evaporator temperature
Indicator of heat pump / backup energy consumption per hour

Controls

Mode Setting and Test for user



Mode setting

Consigne: setting of hot water temperature

Default value : 55°C

HP/HC: activates or deactivates the fonction full cost / low cost electricity periods

Default Value : OFF

Anti-legionella: activated or deactivated mode anti-legionella

Valeur par défaut : OFF



Mode test

Allows to check the correct function of the main components

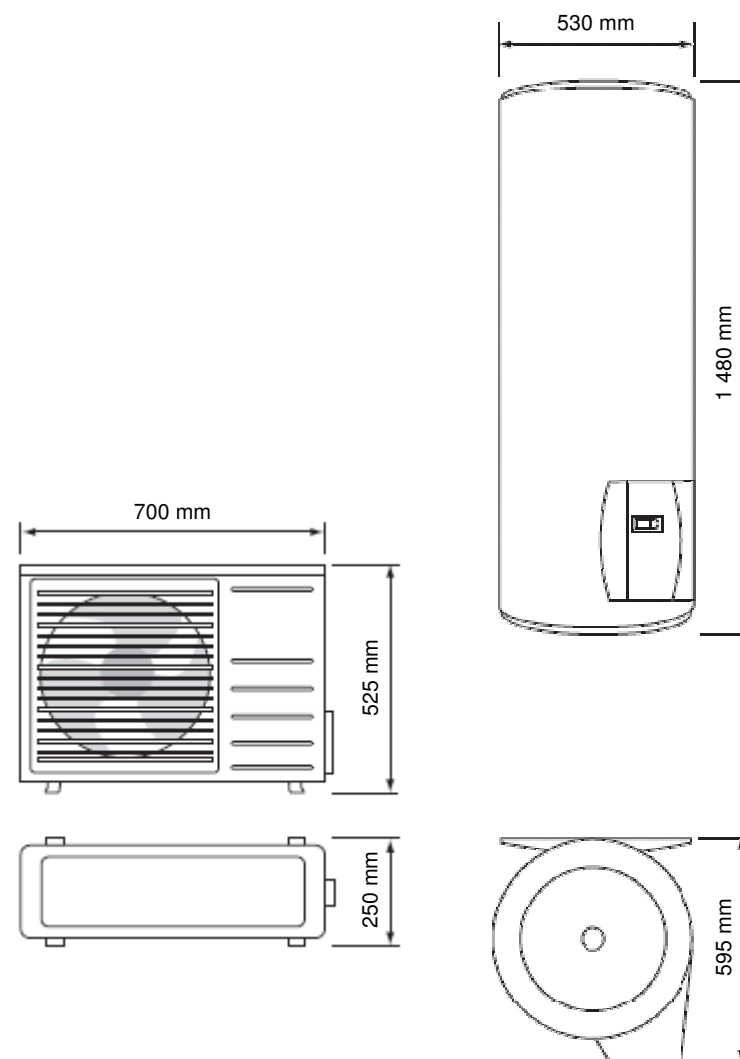
Activates full speed operation of compressor, ventilator, electric backup 4 way valve.

Technical data and dimensions

	VM 200
Capacity	200 litres
Qpr	0,624 kWh/24h*
Storage temperature	51°C
Back-up heater	Electric
COP (at 20° C)	4,15
COP (at 15° C)	3,8
COP (at 7° C)	3,0**
COP (at 2° C)	2,6
Certified Values	No
T min	-5°C
Pn 15° C	—
Pn 7° C	1950 W

* selon le cahier des charges LCIE 103-15/A

** selon EN 255-3 pour chauffe de 15 à 51 °C

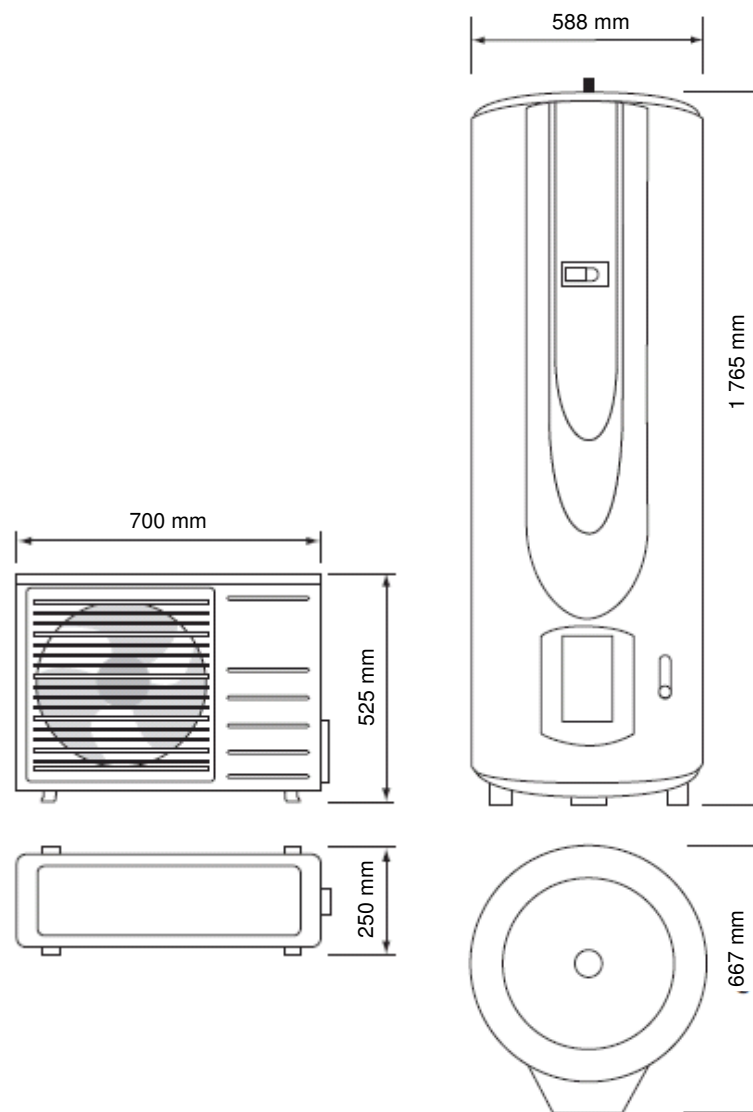


Technical data and dimensions

	VS 300
Capacity	300 litres
Qpr	0,843 kWh/24h*
Storage temperature	51°C
Back-up	Electric
COP (at 20° C)	4,15
COP (at 15° C)	3,8
COP (at 7° C)	3,0**
COP (at 2° C)	2,6
Certified Values	no
T min	-5°C
Pn 15° C	—
Pn 7° C	1950 W

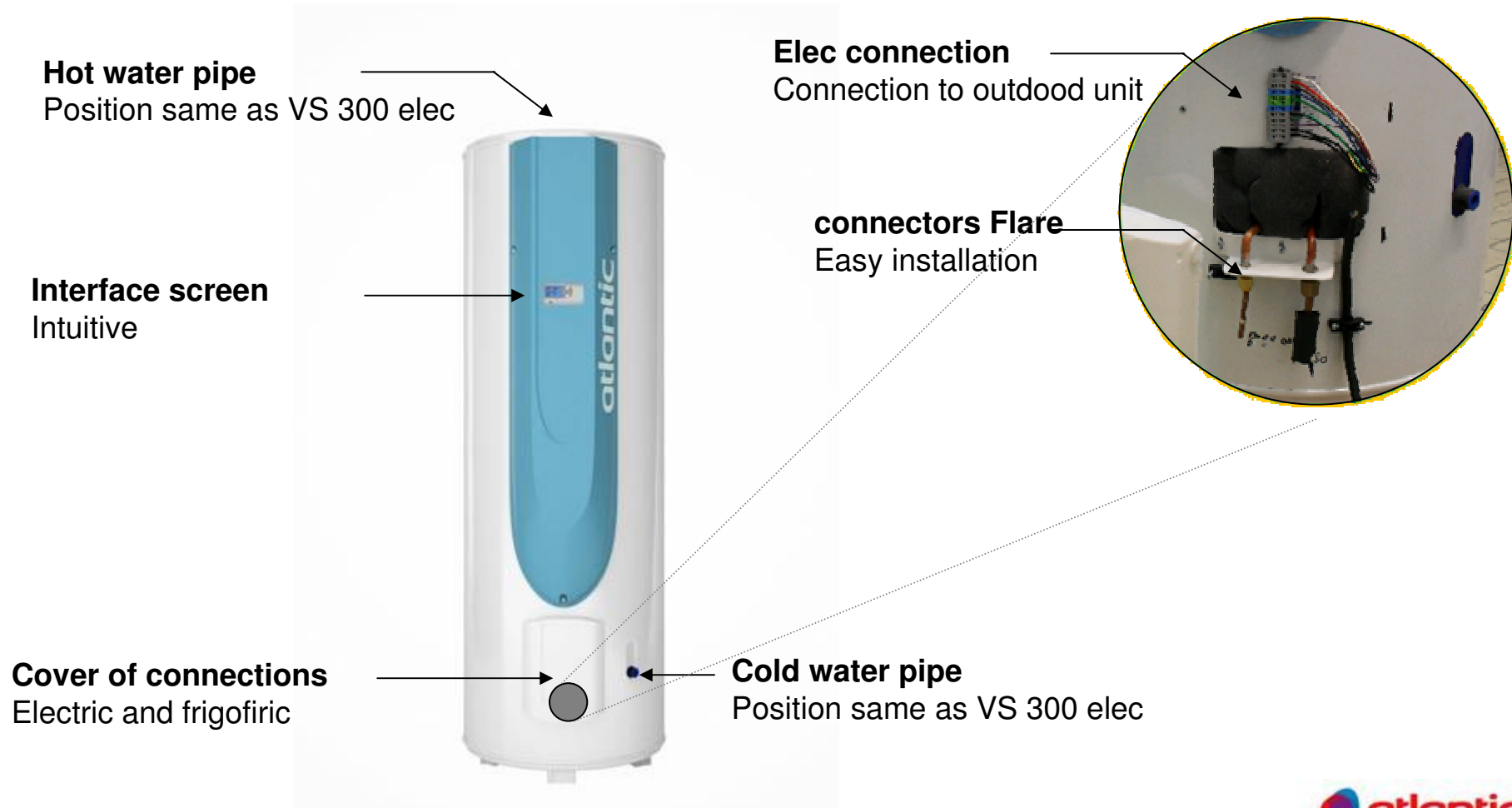
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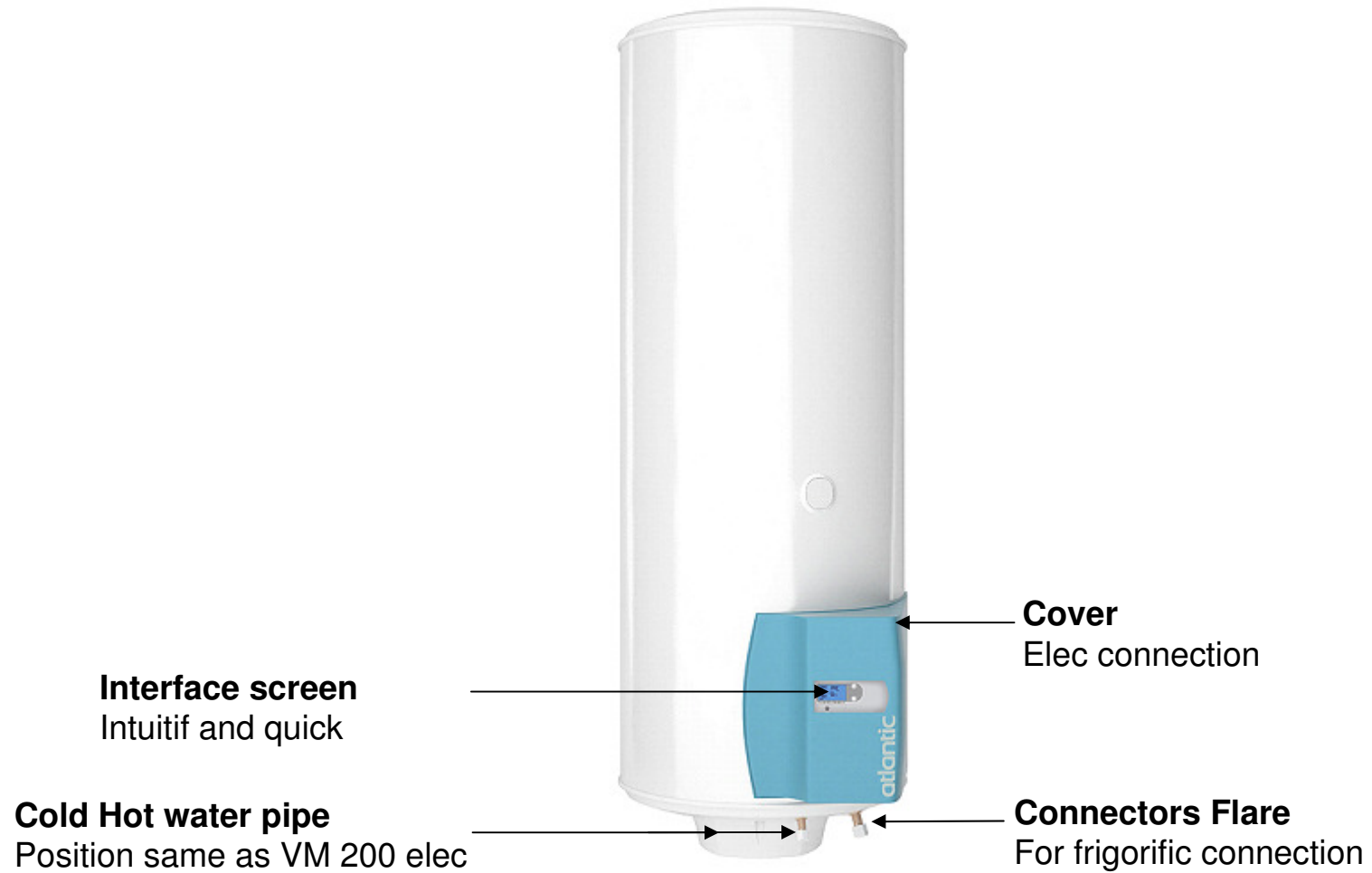
Installation

VS 300



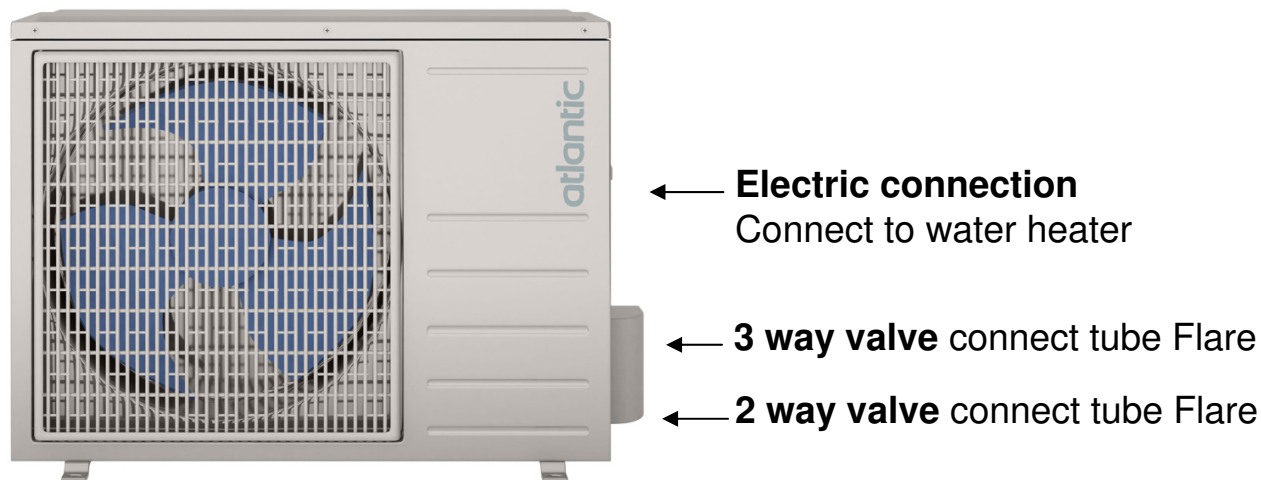
Installation

VM 200



Installation

Outdoor unit



Attention! The connection between outdoor unit and water heater as well as the handling of frigorific fluid has to be made by a specialised person.

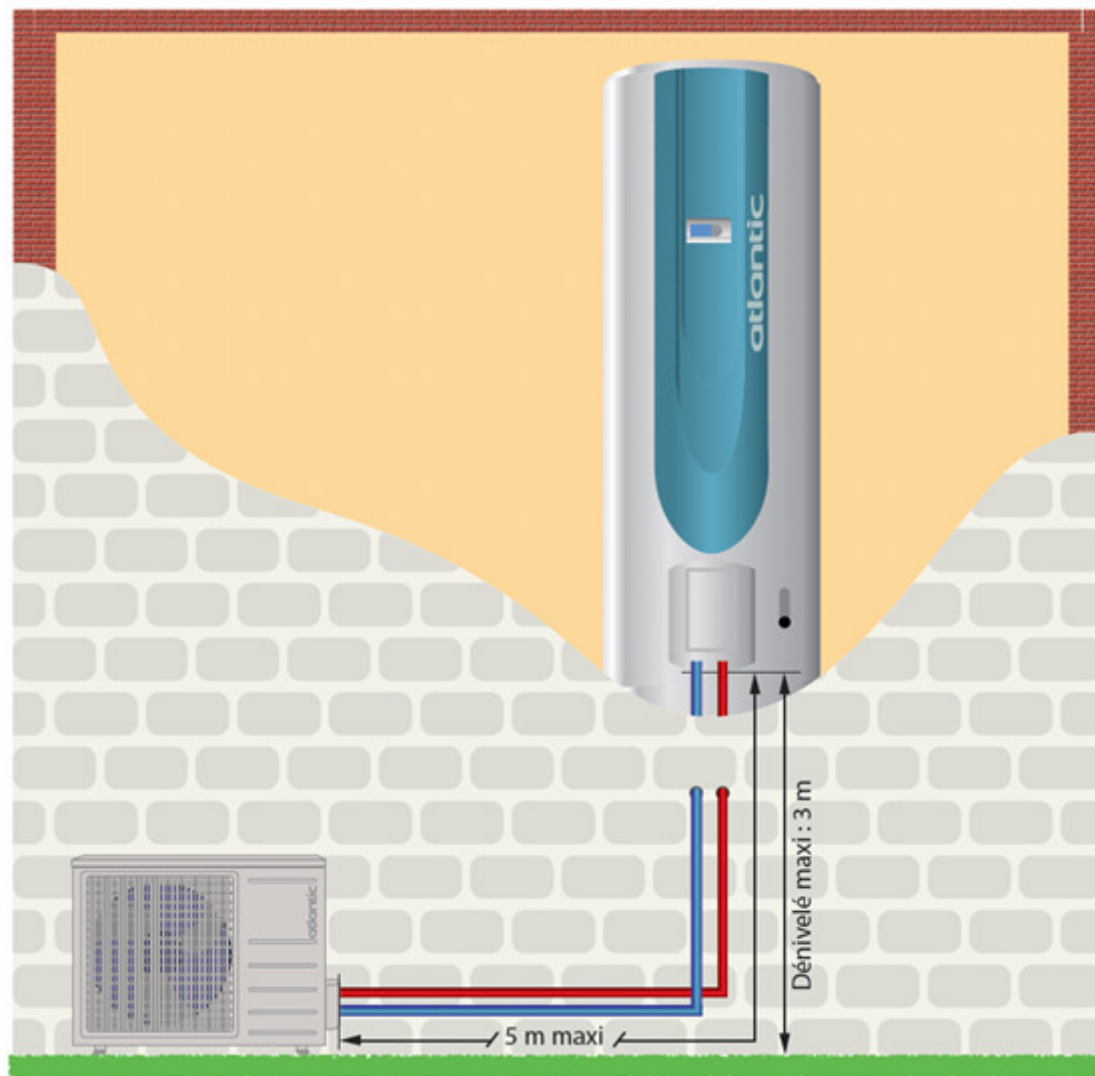
Connection of outdoor unit and water heater :

- Connect frigorific circuit (dudgeonnage)
- Control of tightness with nitrogen (20 bars maxi)
- Vacuum creation in the cold connections and the circuit in water heater
- Filling (open the valves)



Installation

Recommendations



Installation

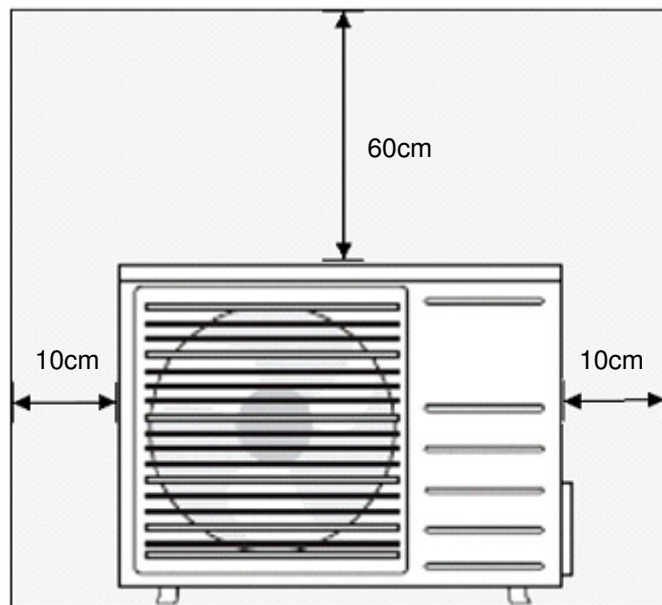
Recommendations

Outdoor unit

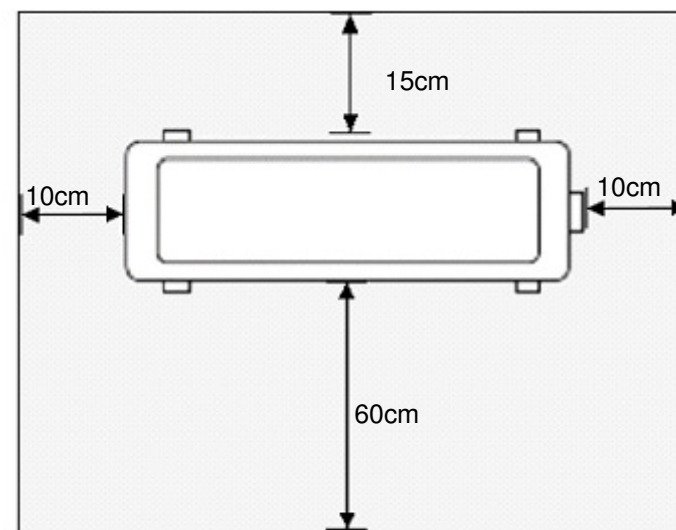
Install on flat ground

Arrange high position to allow evacuation of condensats

Do not install in air draft or dusty area



Vue de face



Vue de haut