

# H<sub>2</sub>HOT HEAT PUMP WATER HEATERS

Our heat pumps **H2HOT** represent the latest technological innovation for heating water for domestic use. They work with the Carnot cycle and heat the domestic water with the heat absorbed from the surrounding atmosphere. **An advantageous and competitive system.**

## H2HOT HEAT PUMPS ADVANTAGES

### ✓ Ecological

They work with electricity and therefore they do not emit any carbon dioxide. R134a gas is eco-friendly and not harmful to the ozone layer.

### ✓ Energy Saving

The COP (coefficient of performance) of this series of heat pumps goes up to 3.6. **H2HOT**, if integrated with our photovoltaic modules, increases the instantaneous self-consumption.

### ✓ 4 seasons employment

Working range with air temperatures from -7° C to +43° C.  
Production of hot water from 38° to 60° C.

### ✓ Functions

- Interface with PV converters for optimized management of energy.
- Anti-legionella automatic weekly program.
- Air-conditioning by canalizing cool air output up to 10 meters (30Pa).
- 4-way valve for automatic defrosting.
- User friendly, intuitive display.
- Daily programming timer.

### ✓ More Advantages

- Double protection from overheating of the tank.
- Easy plumbing and electrical installation.
- Separation between refrigerant fluid and water.
- No fuel use, no dangerous pressures, no leakage of oil, no fire nor explosions.
- The particular tank coating avoids the development of bacteria and rust.
- The anti-corrosion magnesium anode, where applicable, absorbs all stray currents, thus preventing the drilling of the tank and ensuring a long service life.
- Electric resistance programming.



## THE SMART USE OF ENERGY

Clean energy use.

Optimization of the energy produced by the photovoltaic system.

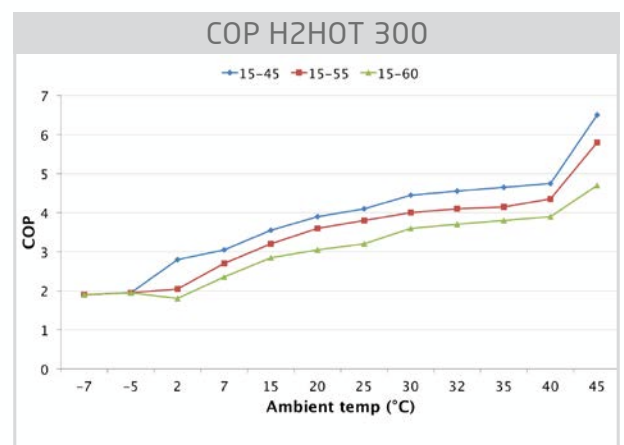
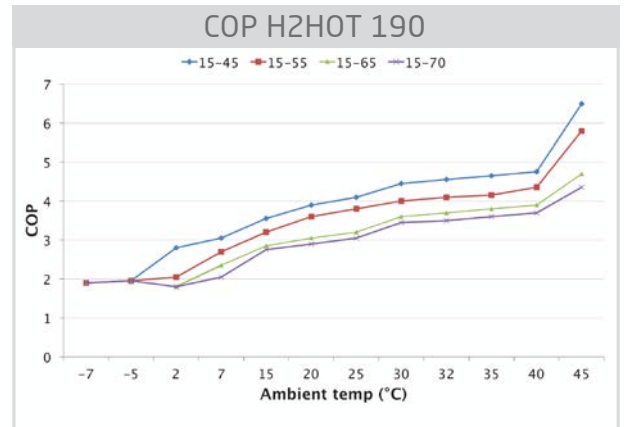
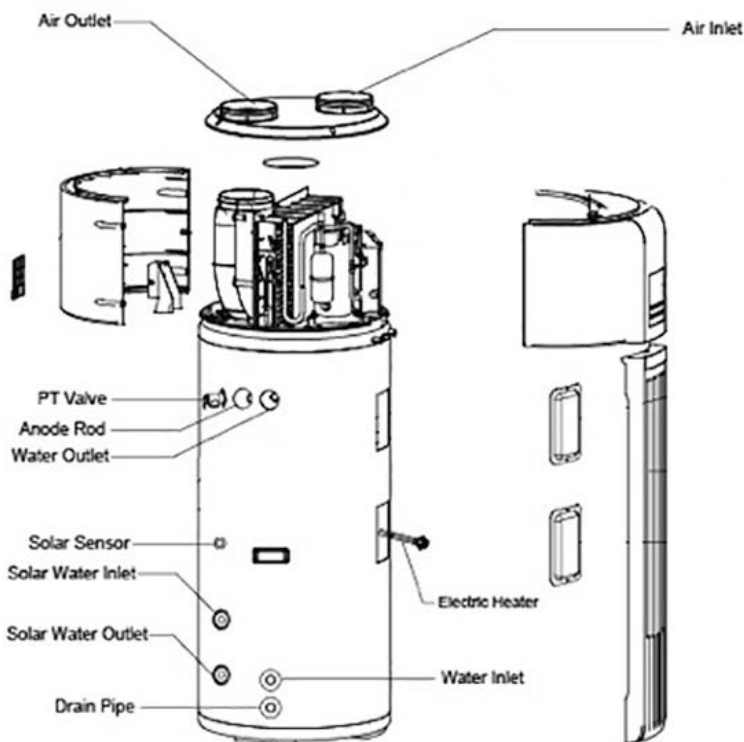
The best solution to store energy without waste.

Efficient increase of self-consumption and energetic independence.



# TECHNICAL DESCRIPTION

MODEL		H2HOT 190	H2HOT 300
Water outlet temperature (heat pump function)	°C	60	60
Water outlet temperature (with electrical resistance)	°C	60	60
Thermal power	kW	1.5	3.0
Absorbed electric power	kW	0.42	0.83
Electric resistance		1,5 Kw	1,5 Kw
COP		3.6	3.6
Refrigerant fluid quantity [R134a]	Kg	0.95	1.2
Storage tank capacity	l	190	300
Diameter of water inlet/outlet	DN	20	20
Absorbed Current	A	3.7	3.9
Dimensions [Øxh]	mm	568x1640	650x1920
Installation		vertical	vertical
Weight	Kg	96	123
Max. air flow rate	m3/h	415/355/312	414/355/312
Min. temperature air inlet	°C	-7	-7
Max. temperature air inlet	°C	43	43
Diameter inlet/outlet CANALIZATION	mm	190	190
Diameter inlet/outlet SOLAR THERMAL	DN	-	20
Diameter condensation discharge connection	mm	20	20



Test conditions: external air temperature 15/12°C (DB/WB), water inlet temperature 15°C, water outlet temperature 45°C.

N.B. 1 - The choice of the model is to be done according to the number of persons using hot water. The average daily consumption is about 50/60 litres per day per person. In order to integrate the heat pump with a solar thermal system it is necessary to choose the 300 litres model.

N.B. 2 - The installation of an expansion tank is recommended, in order to guarantee a pressure relief while heating the water.