



85TDHW 115TDHW

New solar thermodynamic heat pumps series for the domestic hot water production.

These system include one or more solar thermodynamic panels installed outdoors, able to extract solar energy and the available energy of the surrounding environment. Then, the energy is used by the thermodynamic cycle to heat water, achieving high efficiency and important savings for the house.



Reduces energy use by up to 60%.



LCD touchscreen



Possibility of dehumidifying and refreshing ambient air.



Extracts heat from sun, rain and air.



Aluminium condenser fitted around the tank.



Automatic anti-legionella function.



DHW up to 55°C with heat pump operation.



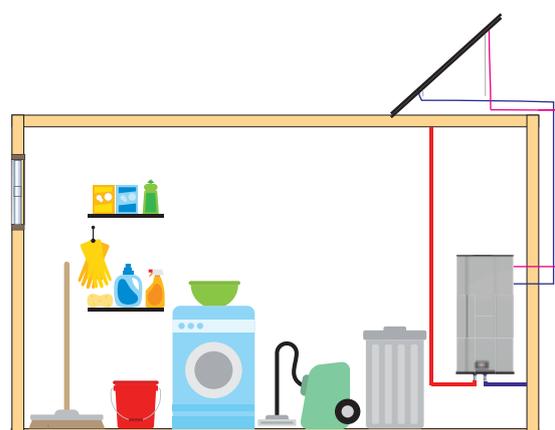
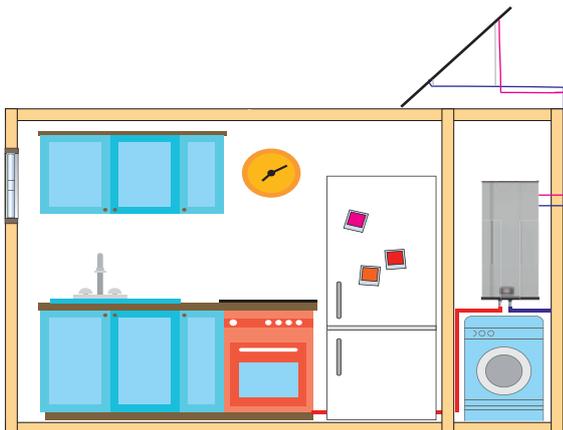
High quality cylinder made of SS DUPLEX



Compliant with Eco-design and Eco-labelling.

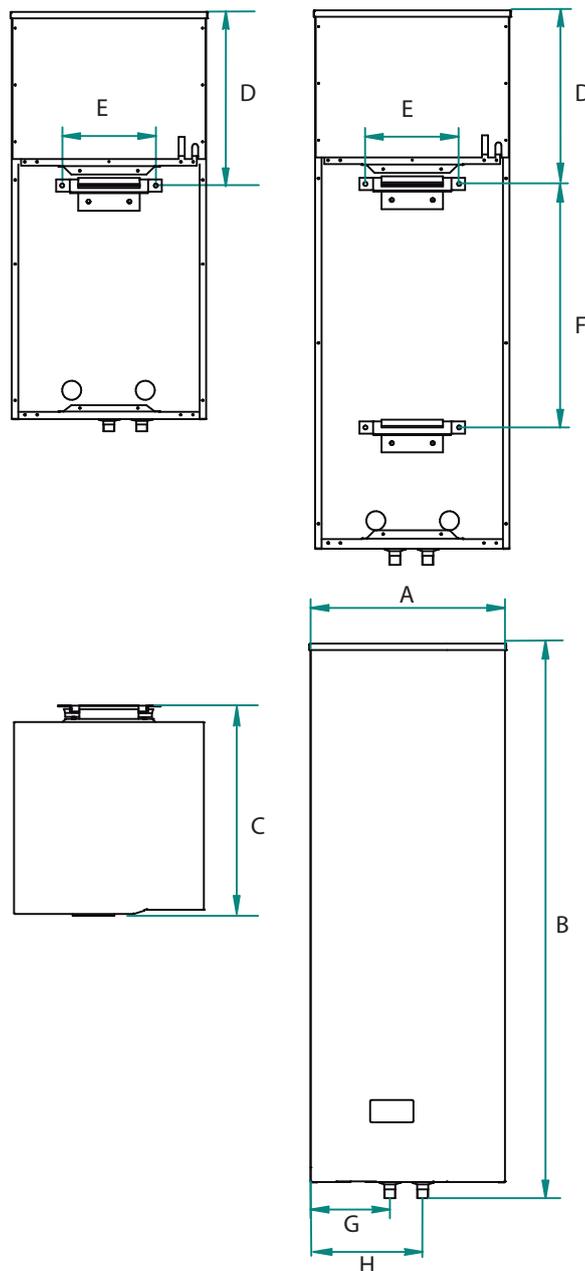
Installation modes

Due to its compact and reduced sized its installation can be performed in multiple locations of the house



Dimensions

Dimensions and connections	85TDHW	115TDHW
Configuration	Wall-mounted	
A, mm	475	475
B, mm	1152	1377
C, mm	530	530
D, mm	450	450
E, mm	230	230
F, mm	NO	600
G, mm	158	158
H, mm	237	237
Water inlet / outlet, inch	3/4	
Refrigerant inlet / outlet, inch	3 / 8-1 / 4	



Technical data

Cylinder	85TDHW	115TDHW
Capacity, L	85	115
Maximum operating pressure, bar	6	
Heat pump data		
Energy Efficiency Class	A	
Load profile	M	
Input power range (1), W	1430-2560	
Maximum temp. HP, °C	450-540	
COP (1), W	2,5-4,6	
Maximum temperature HP, °C	55	
Maximum temp. electric element, °C	62	
Coolant	R134a	
Electric data		
Electric element power, W	230 / 1 / 50	
Maximum current, A	1500	
Maximum power absorbed, W	2100	
Thermodynamic panel		
Number of panels	1	
Dimensions, mm	1700x800	
Maximum operating pressure, bar	10	
Refrigerant inlet/ outlet, inch	3/8-1/4	

(1) Depending of ambient temperature and incident solar radiation

Advanced controlled



Features

- Touch panel
- Intuitive and easy to use
- PV ready: Takes advantage of the surplus energy from PV installation to heat water at zero cost
- Anti-freeze protection
- Efficient defrosting

Operating modes

- ECO: «reduced» programme enabled, DHW production is handled only by the HP module.
- AUTO: DHW production is handled by the HP module and the electric back-up, based on the input air temperature and inner performances of the heat pump.
- OVERBOOST: A single Boost operates the heat pump and the heating element to heat up the water in the shortest time to the setting temperature.

Compatible with Photovoltaics



The controller includes a connection port with the inverter module which allows starting up the heat pump when there is an energy excess from the photovoltaic panels.