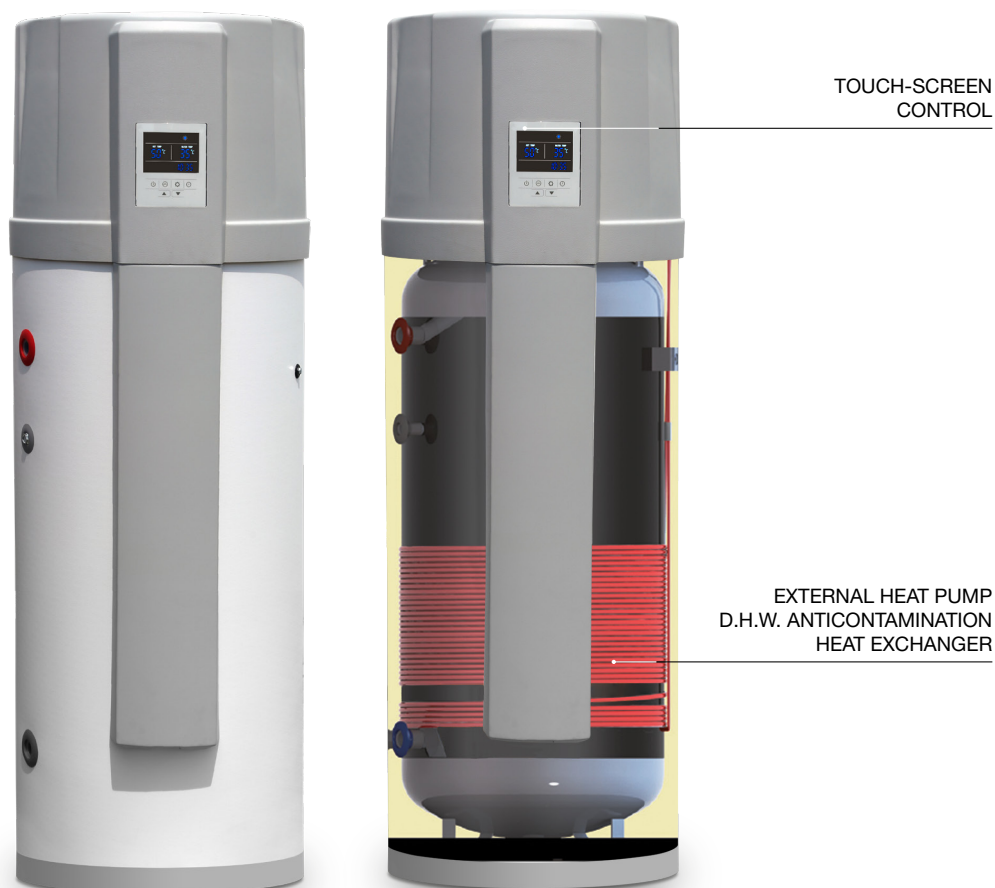


HP 230

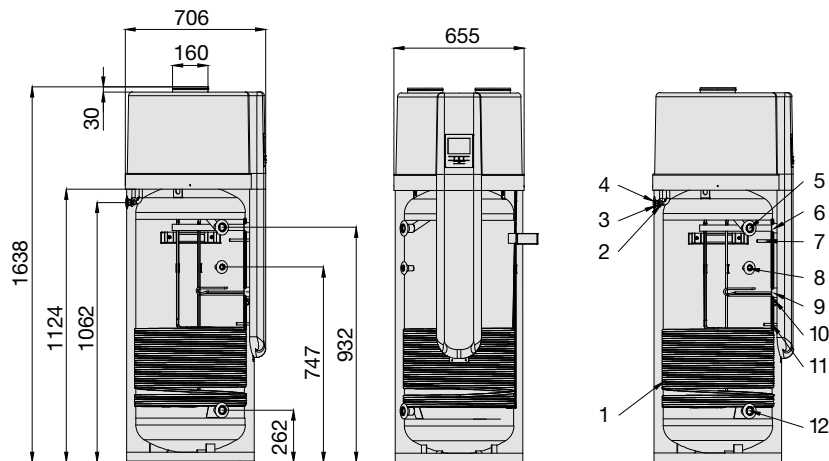
HEAT PUMP FOR D.H.W. PRODUCTION

- **D.H.W. production** up to 75°C
- **228 litres storage tank** with double anticorrosion enamelling, “made in Italy”
- Magnesium anode
- **Total insulation** in PU foam, 50 mm thick
- **Anti-contamination and anti-encrustation** aluminium coil heat exchanger outside the storage tank
- Operational temperature range: -10 / +43 °C
- Integrated **touch screen** control
- Integrated **anti-legionella** function
- **Integrated electric heater** 1.2 kW
- Management of the D.H.W. recirculation pump
- **Rotary compressor** for maximum efficiency and quietness of the unit
- **ON-OFF contact** to start the unit from external switch
- Dedicated contact for **photovoltaic energy optimization** with automatic set-point temperature raising of the D.H.W. production
- **Easy maintenance** thanks to the possibility to cut off the refrigerant circuit independently from the water circuit
- **Electronic expansion valve**
- Timer
- **Auto-restart** with automatic restart in case of electrical blackout
- **Self-diagnosis**
- **Antifreeze** function
- Optimum solution for installation in laundries or in storerooms for foodstuffs, as it **dehumidifies and cools down the environment**





Dimensions and technical data



- 1 Aluminium heat exchanger 3/8"
- 2 Hole for auxiliary cables \varnothing 17 mm
- 3 Hole for power supply \varnothing 17 mm
- 4 Condensate drain \varnothing 22 x 0.3 mm
- 5 Hot water outlet Rp 1" f.
- 6 Anti-corrosion magnesium anode 1 1/4 f.
- 7 Upper tank temperature (T3) + thermostat T85°C \varnothing 12 x L 120 mm
- 8 Connection for re-circulated water Rp 1/2" f.
- 9 1200 W auxiliary electric heater with integrated thermostat 1 1/4 f.
- 10 Grounding M6
- 11 Lower tank temperature (T2) \varnothing 12 x L 90 mm
- 12 Cold water inlet Rp 1" f.

HP 230		
EFFICIENCY CLASS		A
POWER SUPPLY	V/Ph/Hz	230V/1/50Hz
WATER TANK ACTUAL CAPACITY	l	228
NOMINAL OUTPUT / NOMINAL INPUT	W	2060* (+1200**) / 700* (+1200**)
NOMINAL CURRENT	A	2.21* (+5.2**)
COP _{DHW} ⁽¹⁾	W/W	2.64
COP _{DHW} ⁽²⁾	W/W	2.81
MAX. ABSORPTION	W	765 (+1200**)
MAX. CURRENT	A	3.2 (+5.2**)
MAX. OUTLET WATER TEMPERATURE (without using E-heater)	°C	65
MAX. WATER TEMPERATURE	°C	75**
AMBIENT WORKING TEMPERATURE	°C	-10 / +43
HEATING TIME STARTING FROM COLD TANK ⁽³⁾	h:min	5:38
R134a REFRIGERANT CHARGE	g	920
FAN MOTOR POWER	W	80
FAN AIR FLOW	m ³ /h	350
STATIC PRESSURE	Pa	60
DUCTS DIAMETER	mm	160
MAX ALLOWED TANK PRESSURE	bar	10
MATERIALS OF INSIDE TANK SURFACE		S235JR with double vitrified layer
TANK TRANSMITTANCE (kboll) (****)	W/K	1.73
AUXILIARY ELECTRICAL HEATER	kW	1.2
HEAT EXCHANGER MATERIAL OF HEAT PUMP (CONDENSER)		Aluminium alloy
IP PROTECTION CLASS		IPX1
DRY WEIGHT / WEIGHT WITH FULL WATER	kg	98 / 326
ACOUSTIC POWER (***)	dB (A)	58.2
ACOUSTIC PRESSURE (****)	dB (A)	42.8

* Capacity and power input based on the following conditions: ambient temperature 20°C, water temperature from 15°C to 55°C (these data are obtained by internal laboratory tests based on the uniform reintegration of the tank temperature).

** Related to the supplementary e-heater. During disinfection, the water temp could be up to 70°C by electrical heater.

*** measured according to the EN 12102 standard under the conditions set out in the EN 16147 standard.

**** calculated according to the ISO 3744:2010 algorithm at 1 m from the unit.

***** referred to storage tank with ambient temperature of 20°C and with water in the tank at 65°C.

(1) Energetic efficiency of water heating, based on ErP Directive (EN 16147) - profile L - Room temperature 7°C / 6°C - Water temperature from 10°C to 55°C.

(2) Energetic efficiency of water heating, based on ErP Directive (EN 16147) - profile L - Room temperature 14°C / 12°C - Water temperature from 10°C to 55°C.

(3) Uniform reinstatement of tank temperature according to EN16147, with ambient temperature 20°C and water temperature from 10°C to 55°C.