Aquamatic

Instantaneous DHW production unit with integrated storage tank

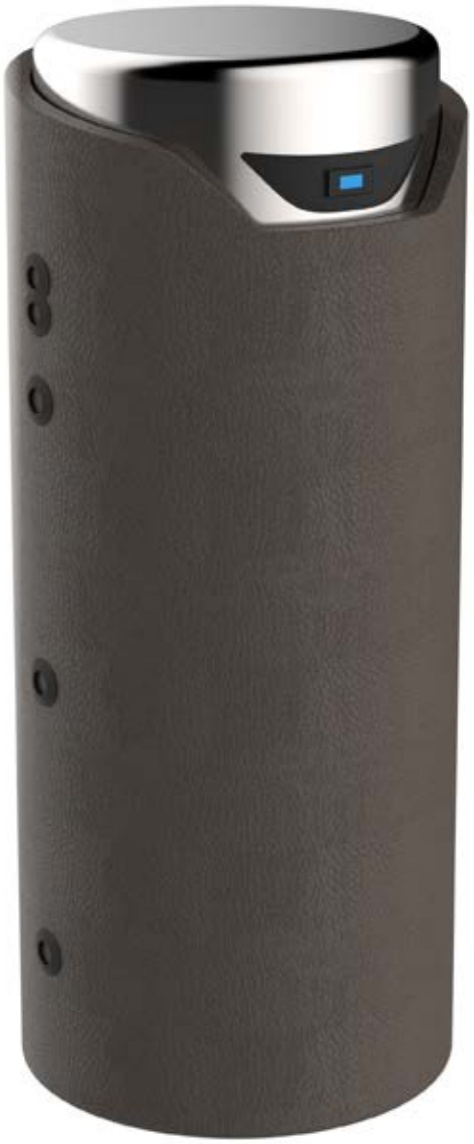
The Aquamatic is an innovative "plug and play" system, which unites both the functions of an inertial tank and an instantaneous DHW production unit in one system. The Aquamatic is elegant and has an original design.

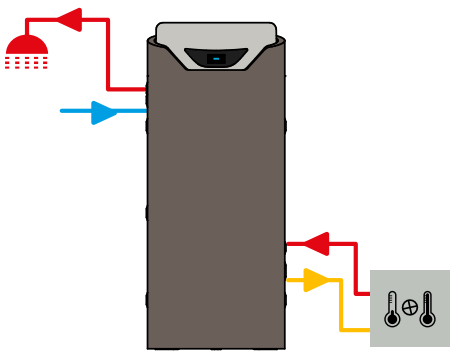
Suitable for heating installations powered by one or more energy sources (traditional water heater, heat pump, biomass water heater, solar thermal...). The device guarantees the inertial storage of technical water and at the same time, the instantaneous production of domestic hot water at the temperature set by the user and with limited chalk formation. The thermal exchange is carried out through the AISI 316 stainless steel plate heat exchanger, which guarantees hygiene and elevated performances. The heat exchanger is integrated with the storage tank from which it takes energy. The system consists of all components necessary for functioning and can be monitored through a control unit with graphic display.

The heart of the Aquamatic system is the particular electronic regulation, developed by Fiorini, which guarantees that the DHW temperature set through the modulation of the primary circuit flow will be reached and maintained. In this way, there is:

✔ A high thermal increase on the primary circuit in order to optimize the efficiency of the generator (heat pump; solar thermal; biomass, etc.)
✔ Precise and trustworthy regulation

Thanks to the highly efficient thermal exchange system the unitis the ideal solution for devices with single or double use in residential or commercial installations that are supplied by a heat pump and/or solar panels and that use a low temperature thermal storage tank (50-55°C).

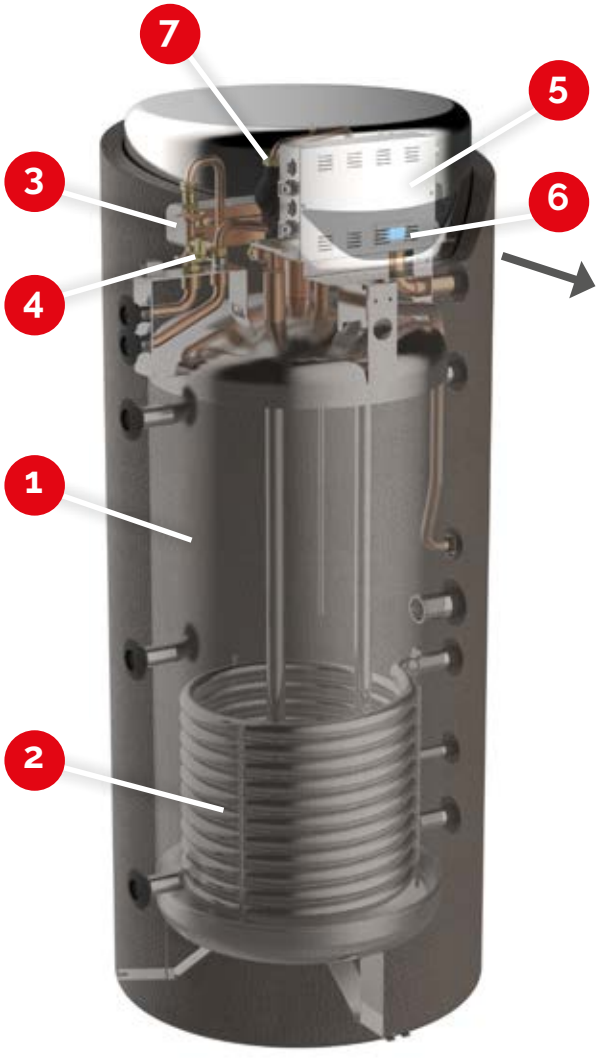


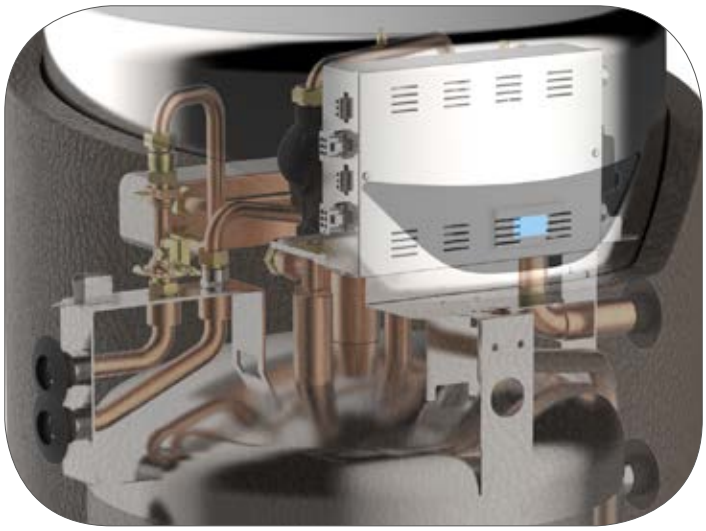


Aquamatic
Main features

✔ Highly efficient heat exchange system with discontinuous or low temperature generator
✔ Cheap and user-friendly
✔ Efficient even with a low flow rate (min 2 l/min)
✔ Highly hygienic with antilegionella function
✔ Very precise temperature control
✔ Highly efficient circulation pump (in accordance with the 2005/32 CE directive) and electronic management of the number of runs.
✔ Graphic display which indicated the temperature in the device and the power
✔ Saves space compared to the solution with heat exchanger + storage tank
✔ Easy installation, Plug and Play system
✔ High density rigid polyurethane insulation. Low thermal loss, **energy class B**

✔ Monobloc structure with original, captivating and esthetical design, which make the device like a piece of furniture.
✔ All-in integration with other generators (for the version that have one)
✔ Possibility to integrate and manage accessories in kit:
Integrative electrical resistor
Domestic recirculation pump
Installation "in series"
Mixing valve for temperature control on the primary circuit.
Deviation valve for stratification
✔ Additional inertial tank for installation;
✔ integrated solar unit
✔ Connectivity (accessory in kit):
Possibility to check and monitor the system via internet
✔ Possibility to communicate with monitoring systems with the Modbus protocol





1	Storage tank
2	Coil (SOLAR and PLUS versions)
3	DHW exchanger
4	flow/temp gauge
5	electric board
6	electronic regulator
7	circulation pump

Available versions

The AQUAMATIC system is available with three different storage capacities and in three different versions. The versions differ in the presence of a second heat exchanger for additional sources and in the possibility of managing the additional heat source through an electronic pump and the specially programmed software.

Aquamatic:
tank supplied with a single energy source.
Equipped with plate heat exchanger for instantaneous DHW production, high-efficiency circulator and electronic board

Aquamatic Plus:
tank with additional coil for adding an integrative heat source

Aquamatic Solar:
Tank for use and management of an integrative heat source (solar thermal, water heater, etc.); next to an additional coil, there is also a circulator and control software for managing the integrative source.

Next to those three devices, an integrative resistor is also available, which can meet the highest heat requirements.

code	description	pump primary	exchanger primary	electronic control	exchanger integrative	recirculation pump integr.
842030104X	**AQUAMATIC 200**	✔	✔	✔		
842030105X	**AQUAMATIC 300**	✔	✔	✔		
842030106X	**AQUAMATIC 500**	✔	✔	✔		
842030107X	**AQUAMATIC "Plus" 300**	✔	✔	✔	✔	
842030108X	**AQUAMATIC "Plus" 500**	✔	✔	✔	✔	
842030109X	**AQUAMATIC "Solar" 300**	✔	✔	✔	✔	✔
842030110X	**AQUAMATIC "Solar" 500**	✔	✔	✔	✔	✔

The AQUAMATIC is delivered packed in a cardboard box on a pallet.
It has an electric cable with SHUCO plug, length 1.5 m.

Technical information

		AQUAMATIC		
		200	300	500
Electrical supply	V/Ph/Hz	230/1/50		
Absorbed power min/max	W	25/75		
Absorbed current min/max	A	0,14/0,53		
Absorbed power min/max Solar version	W	27/127		
Absorbed current min/max Solar version	A	0,18/1,05		
Min DHW flow rate at start-up	l/min	2		
Max DHW flow rate	l/min	35		
Max operating pressure	bar	6		
Max operating temperature	°C	95		
Capacity of the tank	l	199	290	480
Deliverable flow rate*	l/m	18,5	18,5	18,5
Deliverable liters*	l	153	214	337
Empty weight	kg	75	89	116
Empty weight Plus version	kg	-	96	131
Empty weight Solar version	kg	-	101	136
Surface area Integr Heat exchanger (Plus and Solar versions)	m2	-	1,4	1,9
Sound pressure at 1 m	dB(A)	25		
Heat loss **	W	59	68	80
Energy class		B	B	B
Electronic regulation of the pump velocity			●	
Graphic display			●	
Settings for DHW temperature			●	
Possibility to set antilegionella treatments			●	

*Working conditions in accordance with EN 16417 (DHW 42°C, tank 50°C)
**Working conditions in accordance with UE N. 812/2013 and N.814/2013 (ambient air 20°C, tank 65°C)