

PRODUCT DESCRIPTION:

The INstant Water system is a global solution that allows instant hot water delivery in all housing taps. The system consists of a local module installed in each compartment served by hot water and a central module installed right next to the heating or hot water storage point.

LOCAL MODULE:

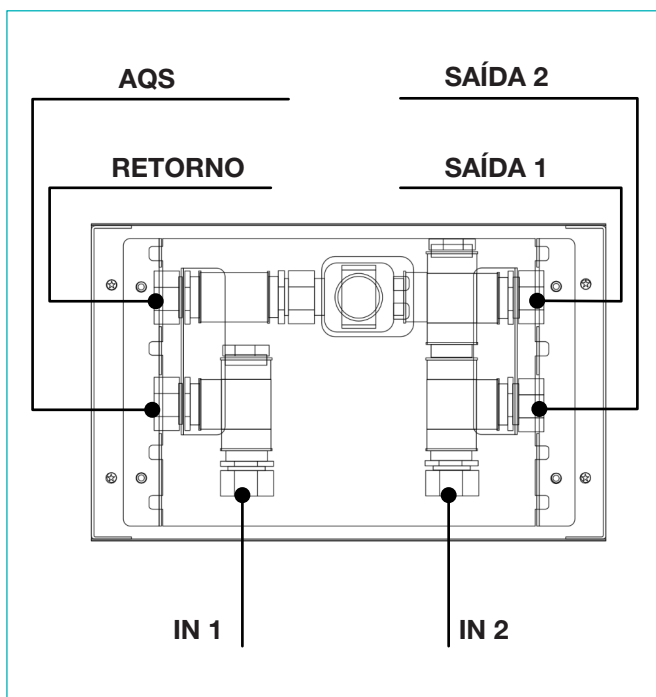
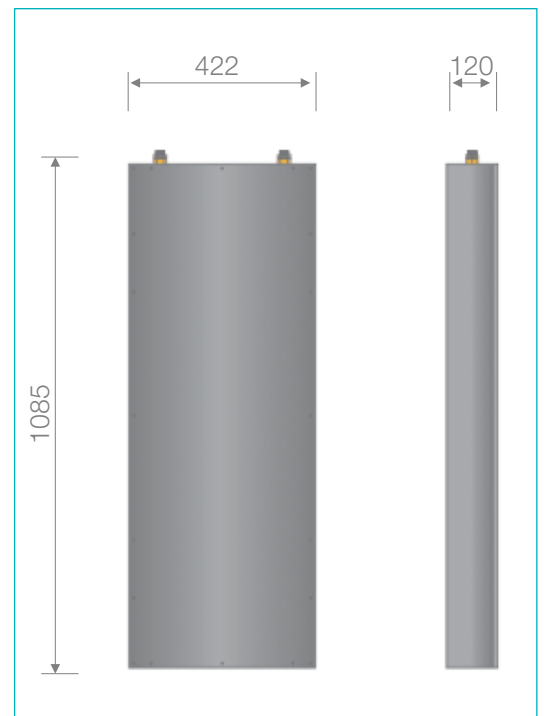
The local module consists of two main components:

1. Thermal battery

The thermal battery can be built into a wall (battery thickness: 120mm) or installed inside a technical compartment.

This component works fully passively by accumulating the heat produced during the passage of hot water through the product (stored at a constant temperature), based on the phase change (< > solid liquid) process of a specific material.

The heat preservation between usage is ensured by the high-efficiency thermal insulation made with vacuum panels of smoked silica core, that ensures a heat loss of less than 20% after 24 hours without uses.

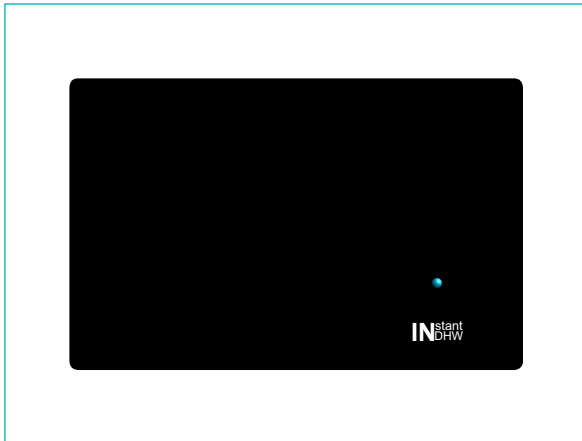


2. LFC water box

The LFC water box aims to centralize all the water and control connection at one point of the compartment. It consists of a set of brass fittings that make the connection of the DHW power supply and the return pipe, the connections to the thermal battery and the outputs to the consumption points of the compartment.

Besides the water connections, the system integrates a controller, two temperature sensors and an electrovalve. The controller analyzes in each DHW consumption of the compartment the state of the thermal battery; if the hot water usage time has not ensured the full battery recharge, the system activates the recirculation pump and opens the electrovalve to allow local hot water recirculation for as long as necessary to finish the battery recharging process.

This ensures that whenever the user opens a tap in a compartment, the battery is charged and the water will always be hot from the first second the tap is opened. The controller is connected in series through RS485 protocol to the Master central system, located next to the hot water heating/storage point.



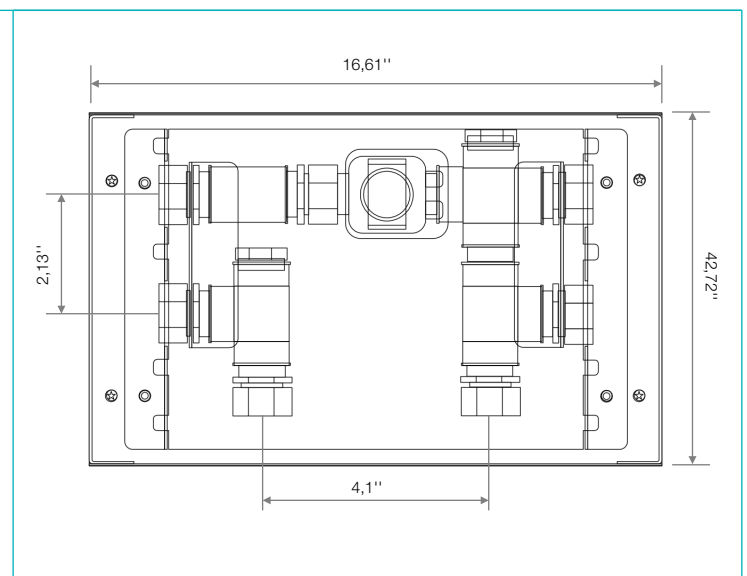
The LFC water box is also recessed into the wall. The finishings are made with a cover available in stainless steel and black tempered glass. The controller has two led lights visible on the lid that will report any error (via color code) to the user by changing the color of the LED light.

THERMAL BATTERY SPECIFICATIONS:

- Material: Aluminium case
- Dimensions: 16,61 x 42,72 x 4,72 inches
- Weight: 66,14 Lb
- Connections: 1/2 Male bushing
- Maximum supply flow: 2,72 gal
- Water supply temperature: > 33,8°F

LFC WATER BOX SPECIFICATIONS:

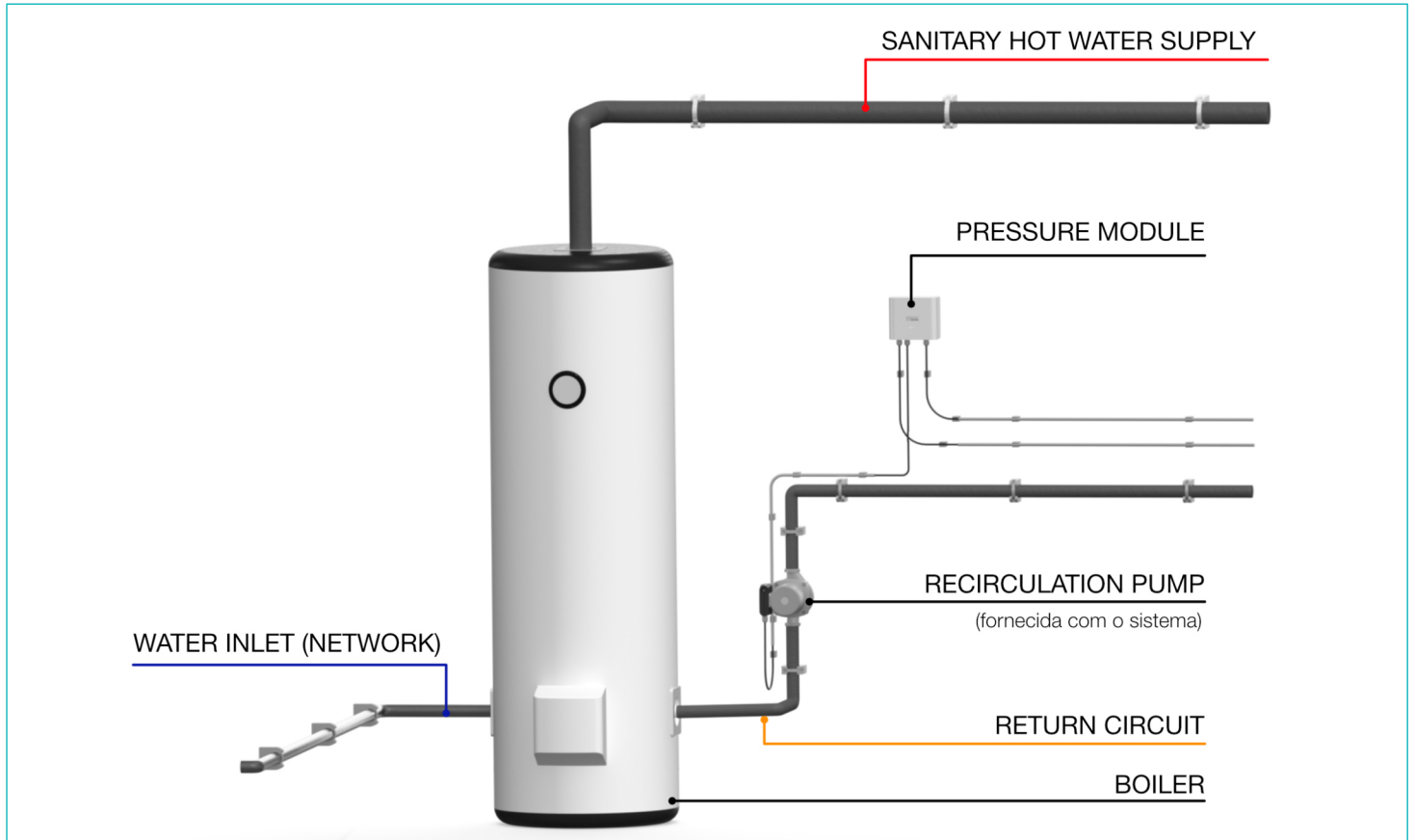
- Material: Aluminium case
- Brass accessories
- Dimensions: 10,24 x 6,26 x 3,74 mm
- Connections: 1/2 Male bushing with fitting rubber (nut-male)
- communication cable: CANBus/Modbus/RS484 - 4 conductors
- Finishing cover: Black smooth tempered glass | Brushed Stainless Steel



CENTRAL MODULE (MASTER):

The central module consists of a central controller and a recirculation pump.

The system is powered by 220VAC, being the only electrical connection point of the entire INstant Water network. In a stand-by mode, the total energy consumption of the grid is less than 6W. Pump consumption will always be associated with exceptional situations where the time of hot water consumption has not ensured the replacement of heat in the batteries.



PRESSURE MODULE SPECIFICATIONS:

- Material: Aluminium case
- Dimensions: 5,87 x 5,20 x 2,09 ''
- IN: Power supply 220VAC
- Out 1: Recirculation pump (220VAC)
- Out 2: Communication cable (12VDC)
- Water resistant: IP44
- Recirculation pump: outlets 1 1/4 F

