Fresh Water Stations for DHW
T-SET



fiorini

T-SET
Instant DHW production units

The **T-SET** is an instant domestic hot water production unit that uses a brazed stainless steel plate heat exchanger.
Domestic hot water **temperature is regulated** using a **three-way, thermostatic mixing valve** installed on the primary circuit (hot water buffer tank side).
The module, connected to a hot water buffer tank from which it draws power, includes all the components required for its operation: a pump on the primary circuit operated by a flow switch positioned on the DHW circuit inlet, and a mixing valve operated by a **thermostatic actuator**, which allows the user to keep the set DHW temperature at a constant level.
For optimal ease of use, accessories are available for the management of domestic hot water **recirculation** that can be combined with each other, or used individually, according to the needs of the user.



TESTED



Plus

- ✔ Compact wall module
- ✔ Accurate regulation of domestic hot water temperature
- ✔ Pre-painted, aluminium cladding case
- ✔ Closed-cell, polyethylene foam insulation, which insulates the entire hydraulic system
- ✔ STAINLESS STEEL domestic hot water circuit
- ✔ Fitted for internal assembly of the recirculation kit
- ✔ Shut-off valves on each connection
- ✔ Integrated safety valve on DHW circuit
- ✔ Easy Plug and Play installation
- ✔ Simple and economical use

Main features

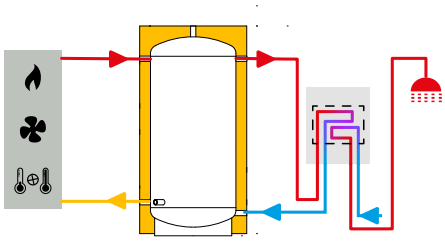
The main features are outlined below:

- ✔ Very simple factory setting: the set point is set using a knob that allows selection of the desired DHW usage temperature
- ✔ A mechanical stop positioned on the valve allows the maximum temperature of the SET POINT, which is selectable by the user, to be set

Available accessories from page 224

Start-up: the first start-up is recommended. See page 381

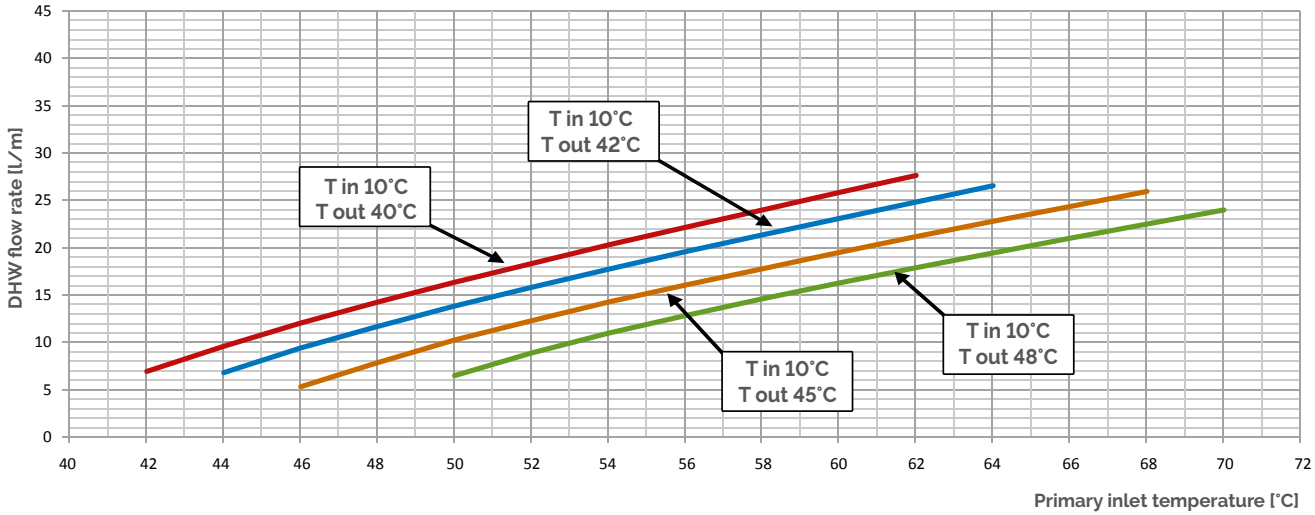
				With packaging	
Model	**DHW nominal flow**	**Code**	**Price**	**Dimensions cm**	**Weight kg**
T-SET 20	(20 l/min. DHW)	842030152X		63x40x21	19
T-SET 30	(30 l/min. DHW)	842030153X		63x40x21	20



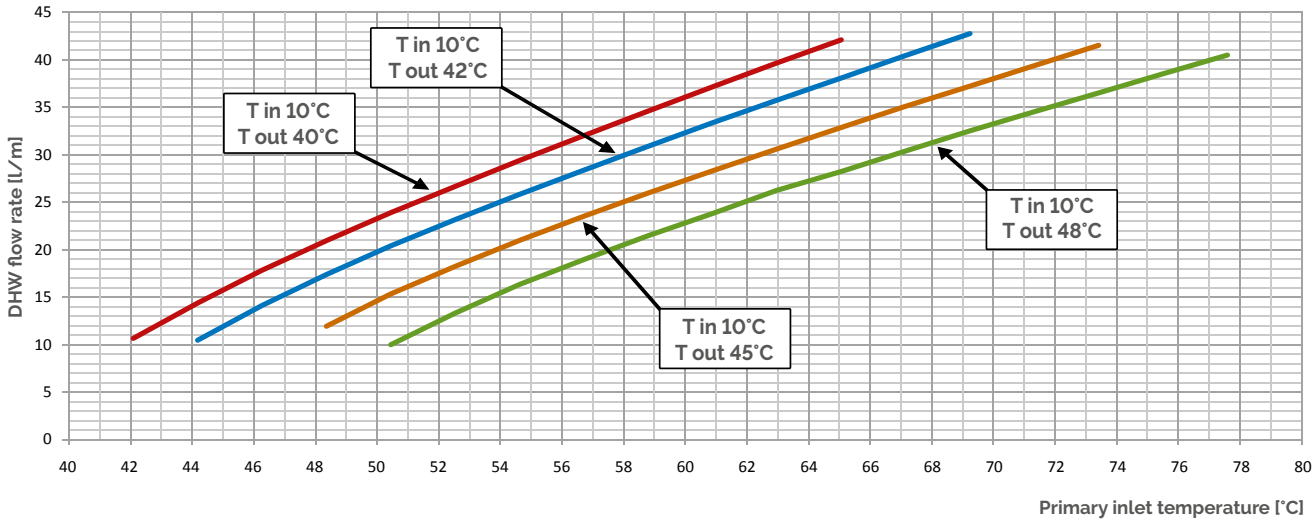
T-SET

Thermal performances

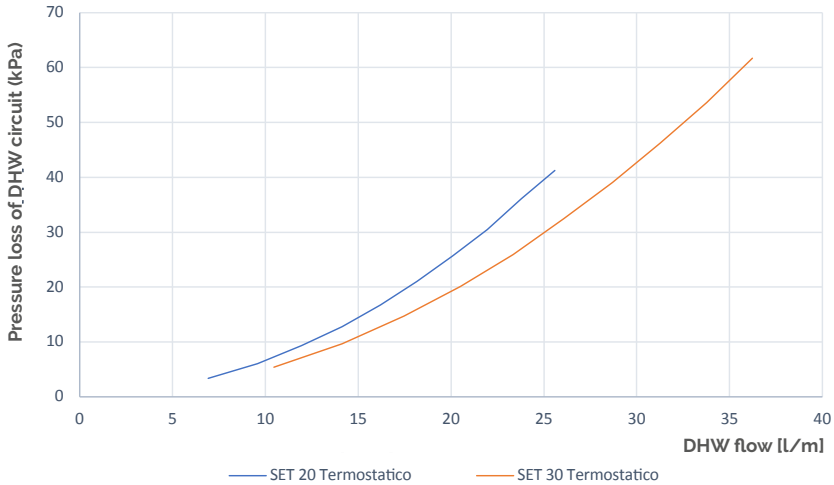
Thermal performance T-SET 20



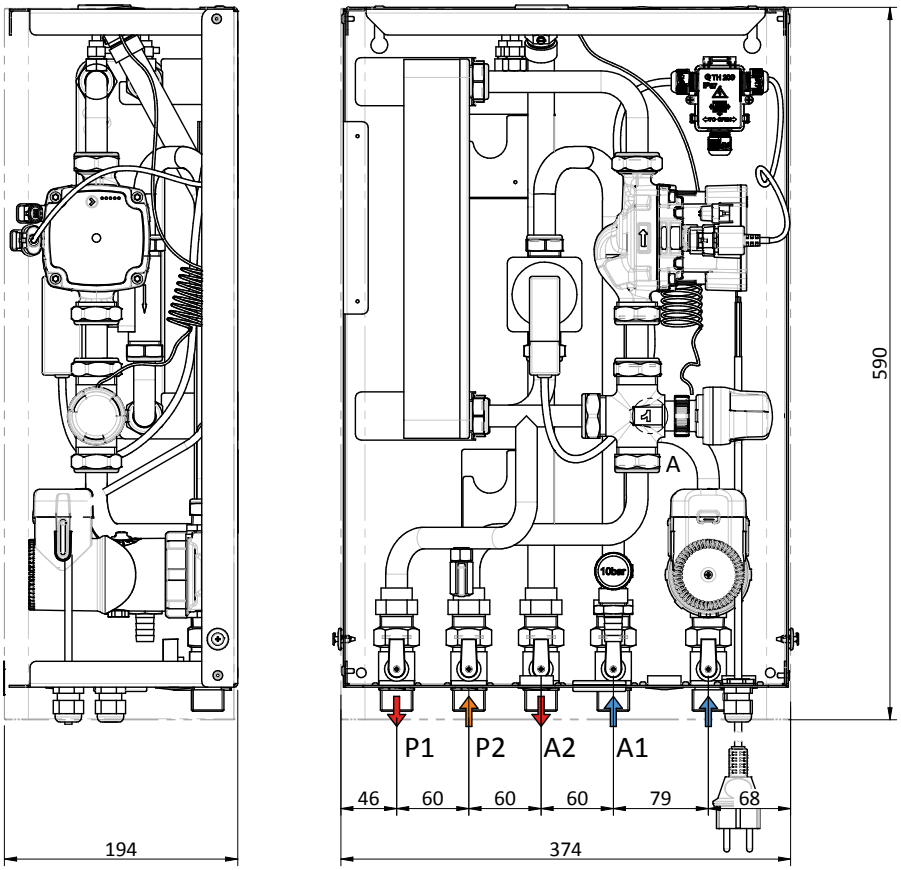
Thermal performance T-SET 30



Hydraulic performances



T-SET
Dimensions



Key

A1	DHW inlet
A2	DHW outlet
P1	To energy source
P2	From energy source

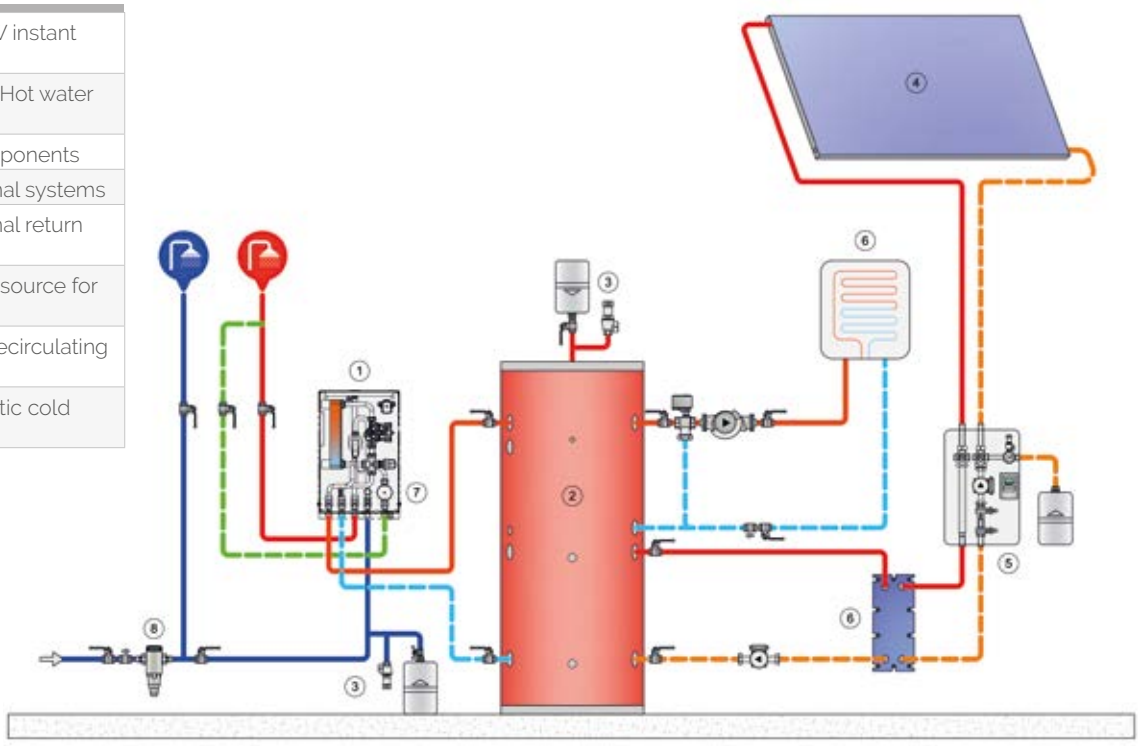
Technical Data Table

		T-SET 20	T-SET 30
Power supply	V/Ph/Hz	230/1/50	
Primary pump power min/max	W	10-75	
Primary pump consumption min/max	A	0.03-0.66	
Maximum system recirculating pump power managed by the control unit	W	460	
Primary flow rate	l/h	1500	1600
Primary circuit residual head	mH_2O	1.5	
Weight without packaging/with packaging	kg	18/19	19/20
Primary circuit volume	l	0.7	1
Domestic circuit volume	l	0.6	0.9
Maximum operating pressure primary circuit	bar	5	
Maximum operating pressure domestic circuit		10	
Primary circuit connections	inches	UNI ISO 228/1 – G 3/4	
Secondary circuit connections	inches	UNI ISO 228/1 – G 3/4	
Maximum operating temperature	°C	95	
Electrical protection rating		IP40	
Type of electric plug		SCHUKO 10-16A/250V	
Electrical cable length	m	1.5	
Min DHW ignition flow	l/min	2	
Dimensions (HxLxW)	mm	590X374X194	

T-SET
Installation diagram
in combination with hot water buffer tank

Key

1	T-SET DHW instant heaters
2	Fiorini PFB Hot water buffer tank
3	Safety components
4	Solar thermal systems
5	Solar thermal return unit
6	Alternative source for heating
7	Domestic recirculating pumps
8	Bacteriostatic cold water filter



N.B.: Installation of an expansion vessel on the cold water line is mandatory

Standard supply

The T- SET instant water heater is shipped in a cardboard box and includes:
- ✔ Complete instant water heater with power cord and Schuko plug
- ✔ Template for easy layout of wall holes to mount the instant DHW heater
- ✔ Rawlplugs and L-hooks to mount the instant DHW heater to the wall
- ✔ Use and maintenance manual

T-SET
Accessories on request

The T-SET may be integrated with three accessories to manage recirculation. Recirculation increases comfort for the end user by the immediate supply of hot water when a tap is opened with no cold water being wasted. Three accessory codes are available:

1. recirculation kit consisting of circulator, valves and instructions (can be integrated internal to the T-SET),
2. recirculation control unit consisting of an electronic board and 2 PT 1000 probes, one contact and one immersion probe
3. PT 1000 contact probe for the recirculation loop

These three accessories provide the installer with a great degree of freedom of choice. They may, for example, purchase a recirculation kit coupled to the control unit, or a recirculation kit coupled to the probe, to decide freely how to best manage the kit. The T-SET recirculation kit (1) is not supplied with a probe as the installer is left free to manage the pump: if the circulator needs to be controlled electronically, a recirculation control unit may be purchased (equipped with probes) (2) or possibly only a recirculation probe (3).

(1) T-SET recirculation kit

The recirculation kit can be integrated internal to the T-SET body using the supplied hydraulic fittings. The kit is supplied separately, unassembled and includes:

- ✔ Recirculating pump
- ✔ Shut-off valve
- ✔ Non-return valve
- ✔ Instructions

NB: A temperature probe is not supplied with this Kit. The Kit is designed to be easily installed inside the unit. To obtain the Complete Recirculation Kit and optimise consumption, it is advisable to combine the **Recirculation kit with the Probe accessory for the recirculation kit** and set up a panel with thermostat (and/or timer).



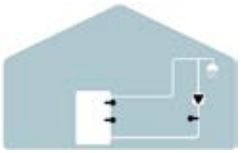
(2) Control unit for recirculation kit

The kit is supplied separately, unassembled and includes:

- ✔ CC Control unit
- ✔ 1 PT1000 immersion temperature probe to be installed on the upper part of the tank
- ✔ 1 PT1000 contact temperature probe to be positioned on the recirculation loop
- ✔ Instructions

NB: When purchasing the control unit kit, purchasing probes separately is not required.





(3) Probe for recirculation kit

The kit is supplied separately, unassembled and includes:

- ✔ PT1000 temperature probe to be positioned on the recirculation loop
- ✔ Instructions

NB: The recirculating pump is not supplied with this Kit.
Fittings for assembly are, however, provided inside the T-SET heater.
When purchasing the control unit kit, purchasing probes separately is not required.

Accessory codes and prices

Description	Code	Price
T-SET RECIRCULATION KIT	842040003X	
PROBE FOR RECIRCULATION KIT – T-SET /SET	842040009X	
CC CONTROL UNIT - FOR DHW RECIRCULATION	C22120034	



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