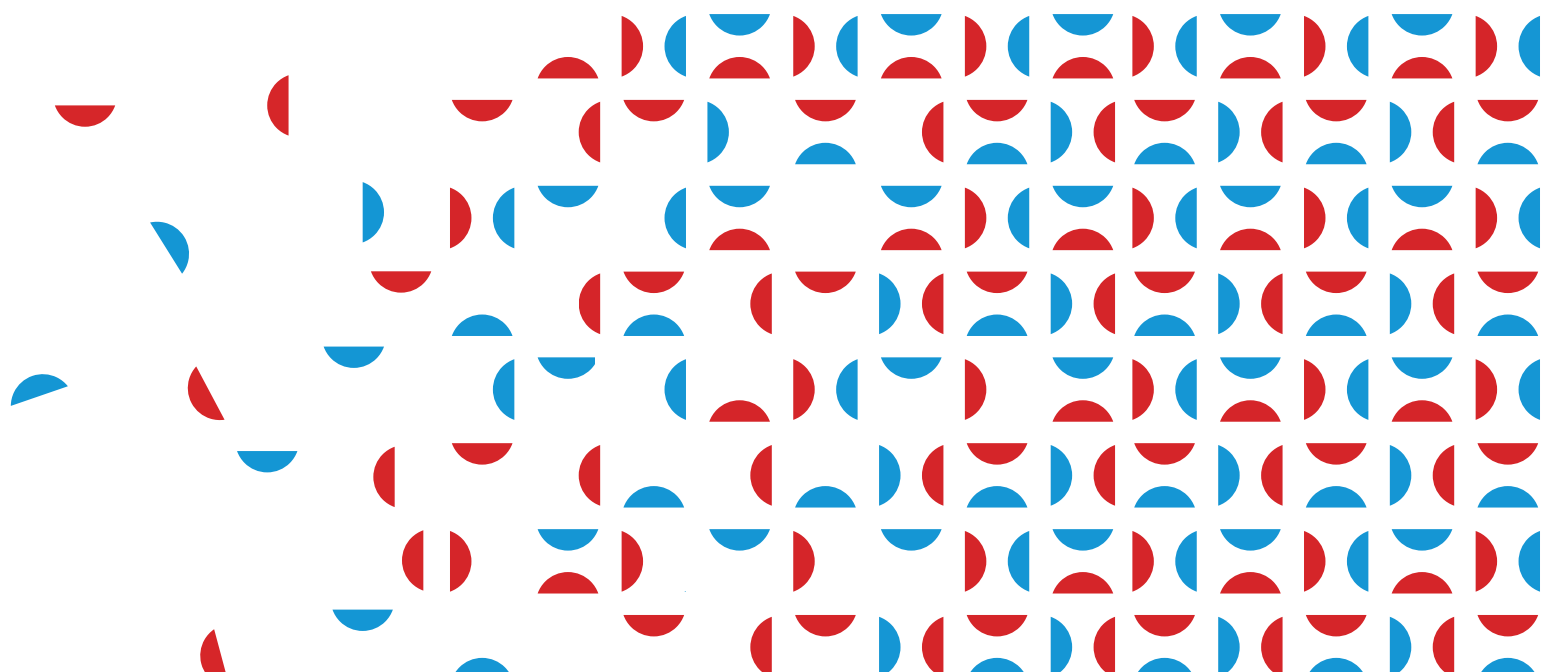


DHW SYSTEMS

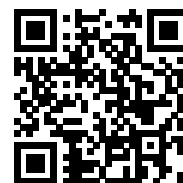
DHW INSTANTANEOUS SYSTEMS

QUICK PLUS



DHW Instantaneous systems

QUICK PLUS



PRICES

Complete 'plug and play' system for heat transfer from technical water storage tank, with programmable control unit and circulator. The QUICK module guarantees the production of domestic hot water with limited limescale formation and at the temperature set by the user. Heat exchange takes place by means of an AISI 316 stainless steel plate heat exchanger with a maximum guarantee of hygiene and high performance. The module, connected to a thermal storage tank from which it draws energy, is complete with all the components necessary for its operation and, by means of a control unit with graphic display, allows the user to keep operation monitored as well as easily set the operating parameters. The heart of the QUICK unit is the special electronic regulation that guarantees the set temperature value of the DHW by modulating the flow rate of the primary circuit.



The QUICK PLUS module, is available in six different sizes (60, 70, 80, 100, 120, 160 and 200*)
(*): DHW production from 10 to 45 °C with primary 55 °C.

The qualifying and innovative element of the QUICK unit is the special electronic regulation that guarantees the set temperature value of domestic hot water by modulating the flow rate of the primary circuit. This guarantees:

- ✓ Maximum thermal jump on the primary circuit to optimise generator efficiency (solar thermal; heat pump; biomass, etc.)
- ✓ Precise and reliable regulation. Due to the high efficiency of the heat exchanger, the module is ideally suited for use in heat pump or solar panel systems, which use low-temperature (50-55°C) storage heaters.

Plus

- ✓ Adjusting the hot water temperature;
- ✓ Easy and economical use;
- ✓ High-efficiency circulation pump (conforms to EC Directive 2005/32) with electronic speed control;
- ✓ Synoptic graphic display showing system temperatures and power output;
- ✓ Easy Plug and Play installation;
- ✓ Insulated fittings;
- ✓ Possibility of managing a DHW recirculation pump.

Accessories available from page 279

cod.	Description	price	with packaging	
			dimensions cm	weight kg
342030004X	QUICK 60 - INSTANTANEOUS DHW Heater	8.146,00 €	110x60x100	166
342030005X	QUICK 70 - INSTANTANEOUS DHW Heater	8.286,00 €	110x60x100	168
342030006X	QUICK 80 - INSTANTANEOUS DHW Heater	9.251,00 €	110x60x100	189
342030007X	QUICK 100 - INSTANTANEOUS DHW Heater	9.578,00 €	110x60x100	193
342030008X	QUICK 120 - INSTANTANEOUS DHW Heater	9.876,00 €	110x60x100	198
342030046X	QUICK 160 - INSTANTANEOUS WATER HEATER	11.461,00 €	140x60x100	198
342030016X	QUICK 200 - INSTANTANEOUS WATER HEATER	13.650,00 €	139x63x125	200

Controller function

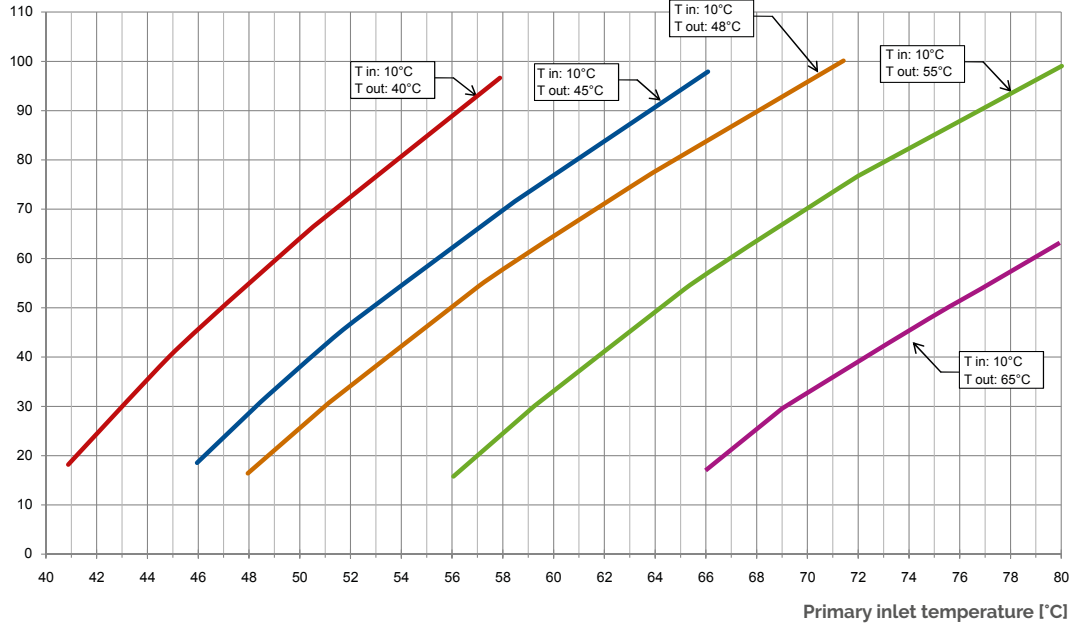
The QUICK instantaneous heater is equipped with a controller capable of handling the following functions:

Efficient electronic regulation of pump speed
Graphic display
DHW usage temperature setting
Maximum DHW temperature setting. This is a safety setting that stops the unit if the temperature reaches the set maximum value
Cascade kit management
Mixer kit management on primary circuit
Storage stratification kit management
Possibility of controlling a recirculation pump per DHW loop, being able to set the pump operating time slots and the temperature of the recirculation loop below which the pump is activated
Anti-legionella: possibility of managing anti-legionella treatments by means of thermal shocks along the entire DHW supply line
AL heating: activation of an additional heat source when anti-legionella treatment is active
Comfort function: when activated, the heat exchanger is kept warm at all times to ensure faster start-up
Limescale protection: if activated, the circulator remains in operation even when the DHW supply runs out, thus reducing limescale build-up
Solar: solar system circulator control and command
Heat generator management: possibility of activating and deactivating a heat generator when the storage temperature falls below the set point
Consumption accounting functions

QUICK PLUS thermal performance

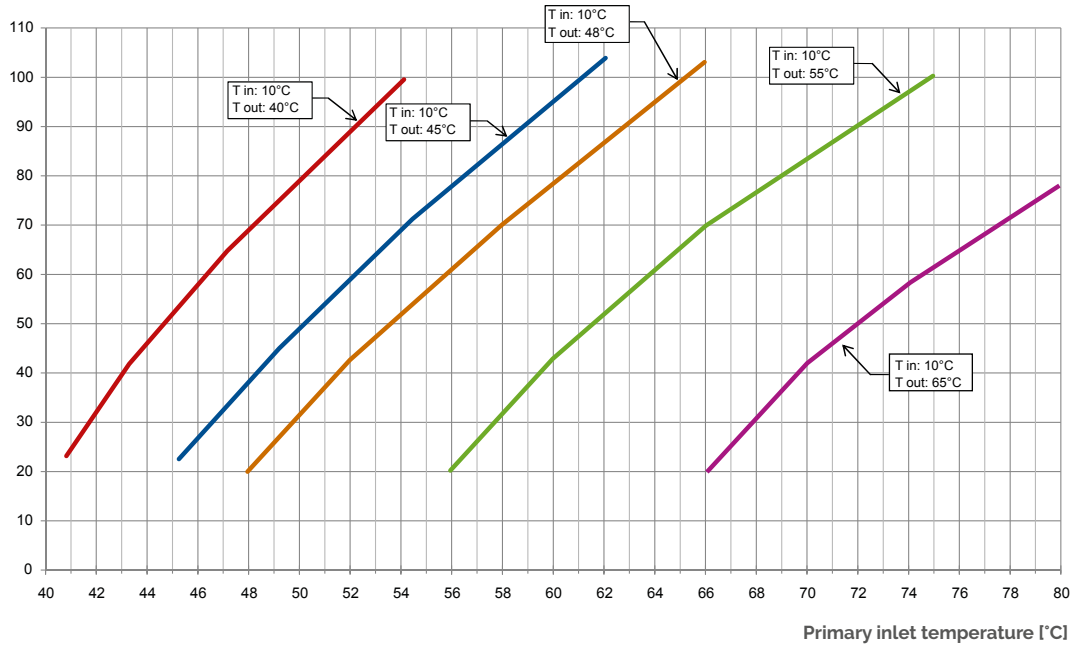
QUICK 60 performance

Deliverable DHW flow rate
[L/min]



QUICK 70 performance

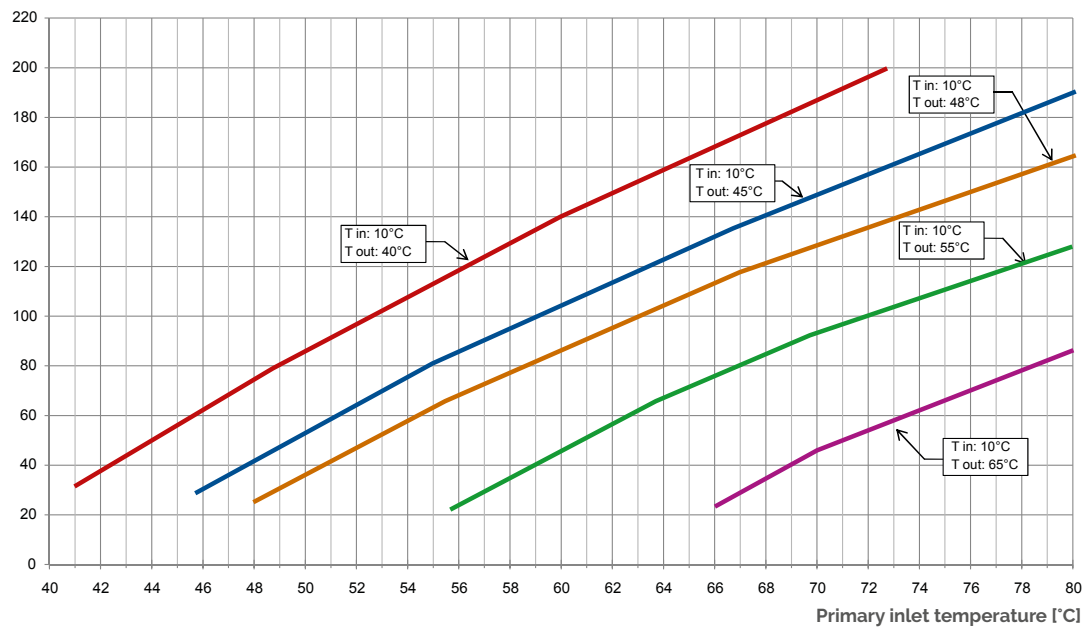
Deliverable DHW flow rate
[L/min]



QUICK PLUS thermal performance

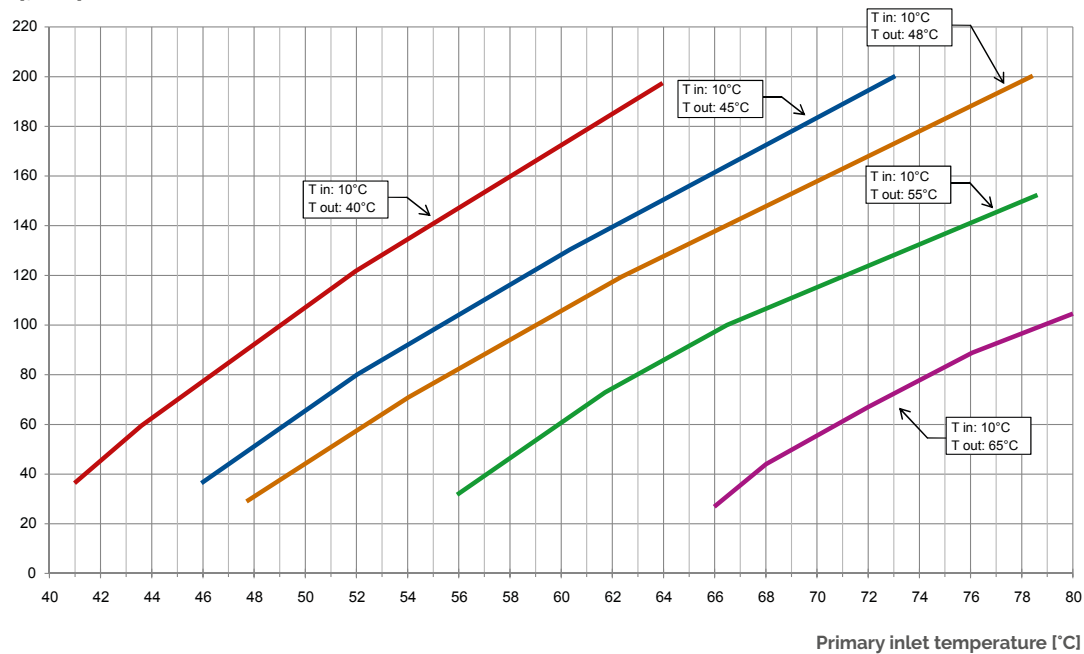
QUICK 80 performance

Deliverable DHW flow rate
[L/min]



QUICK 100 performance

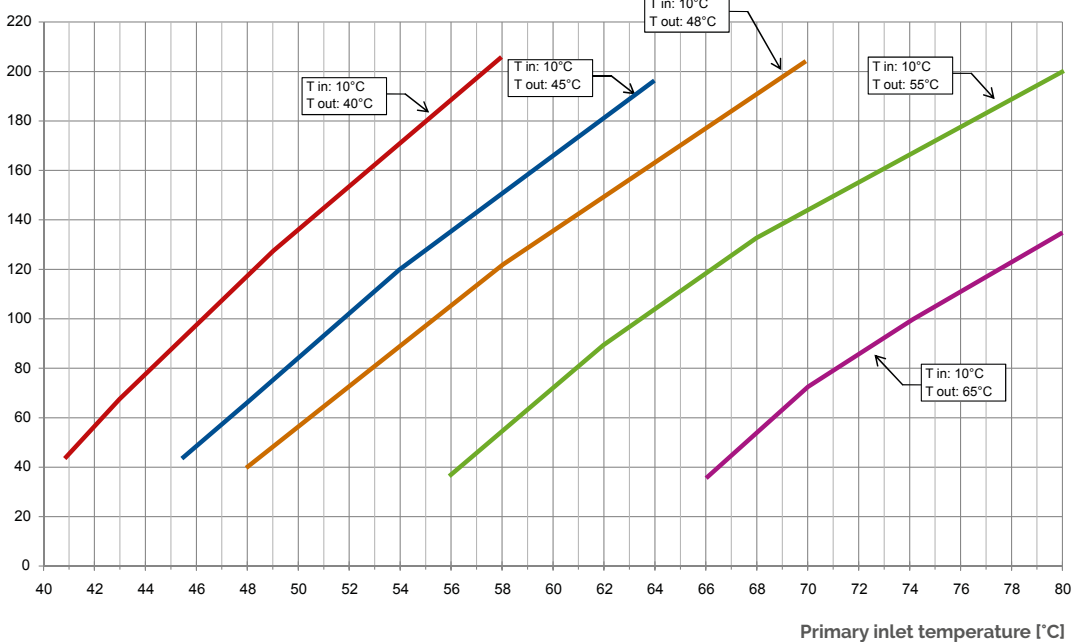
Deliverable DHW flow rate
[L/min]



QUICK PLUS thermal performance

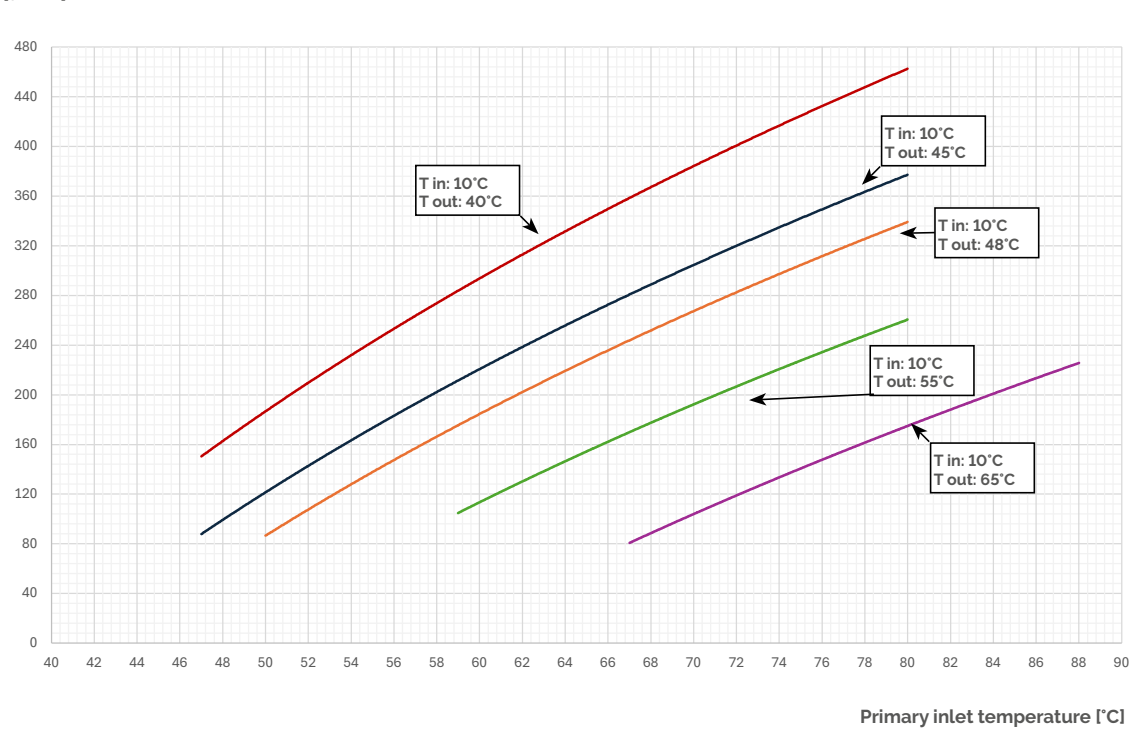
QUICK 120 performance

Deliverable DHW flow rate
[L/min]



QUICK 160 performance

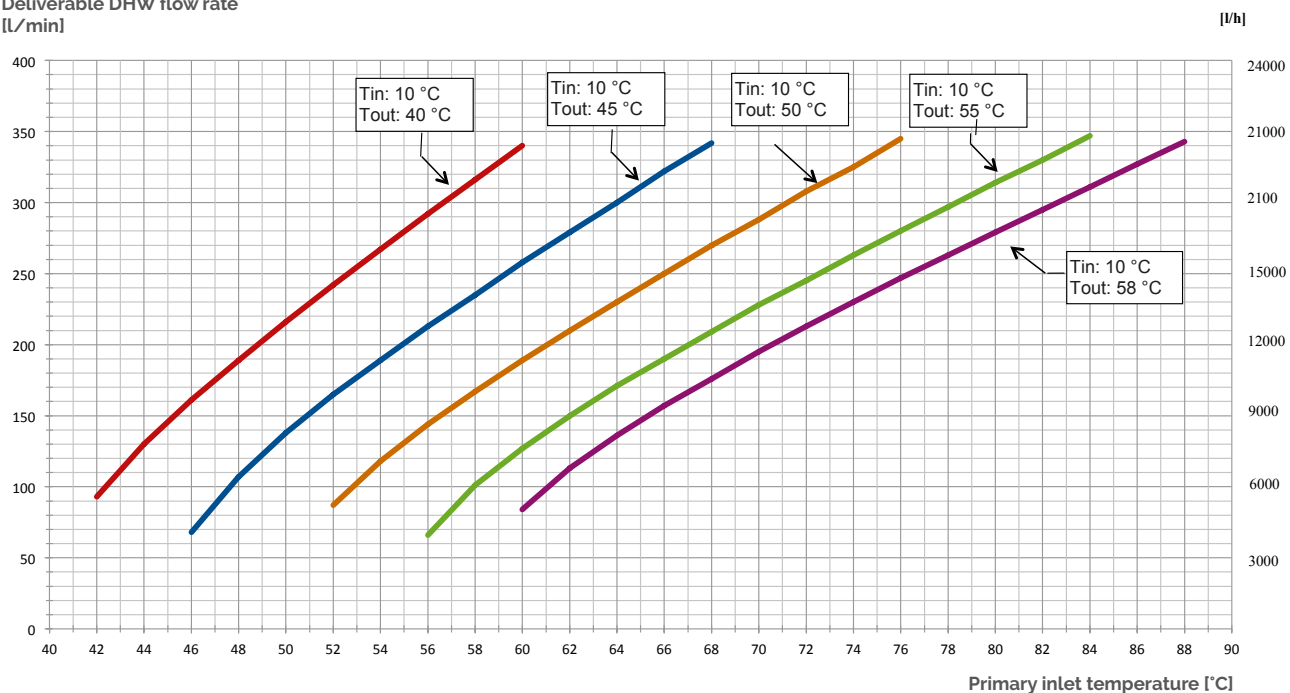
Deliverable DHW flow rate
[L/min]



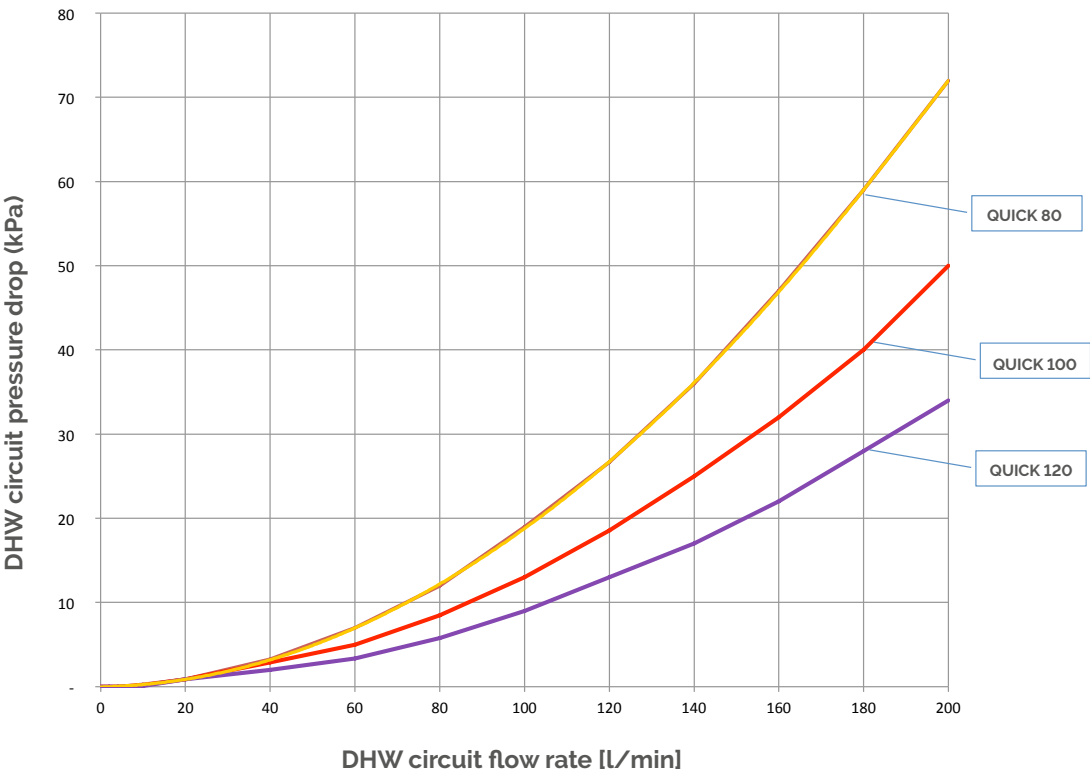
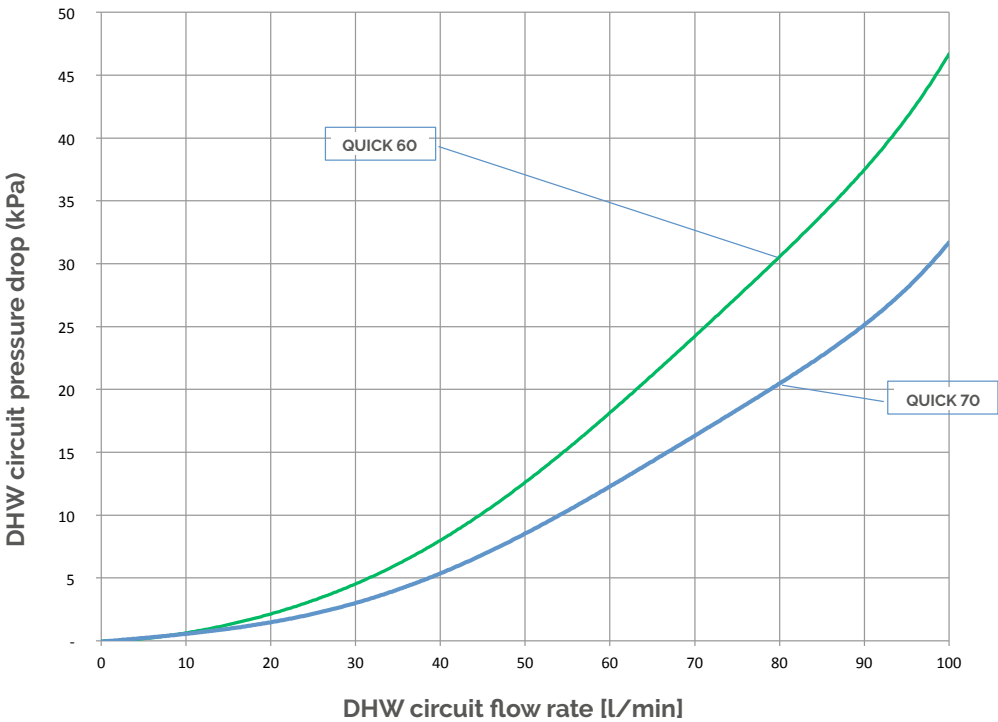
QUICK PLUS thermal performance

QUICK 200 performance

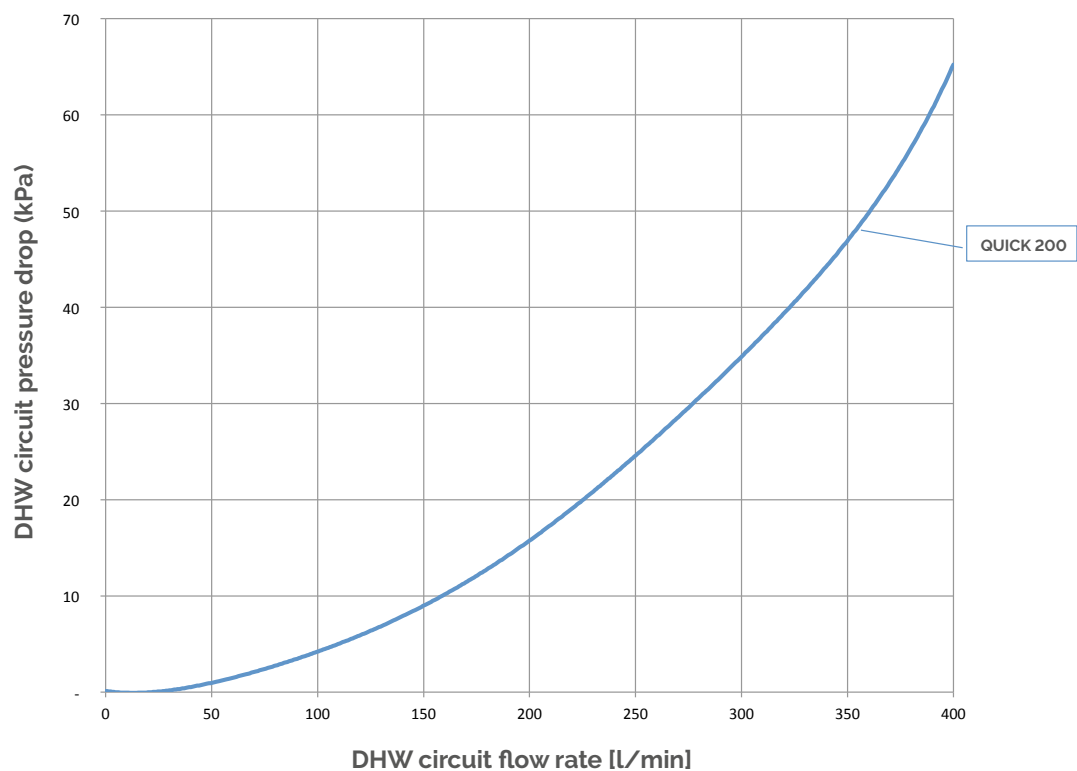
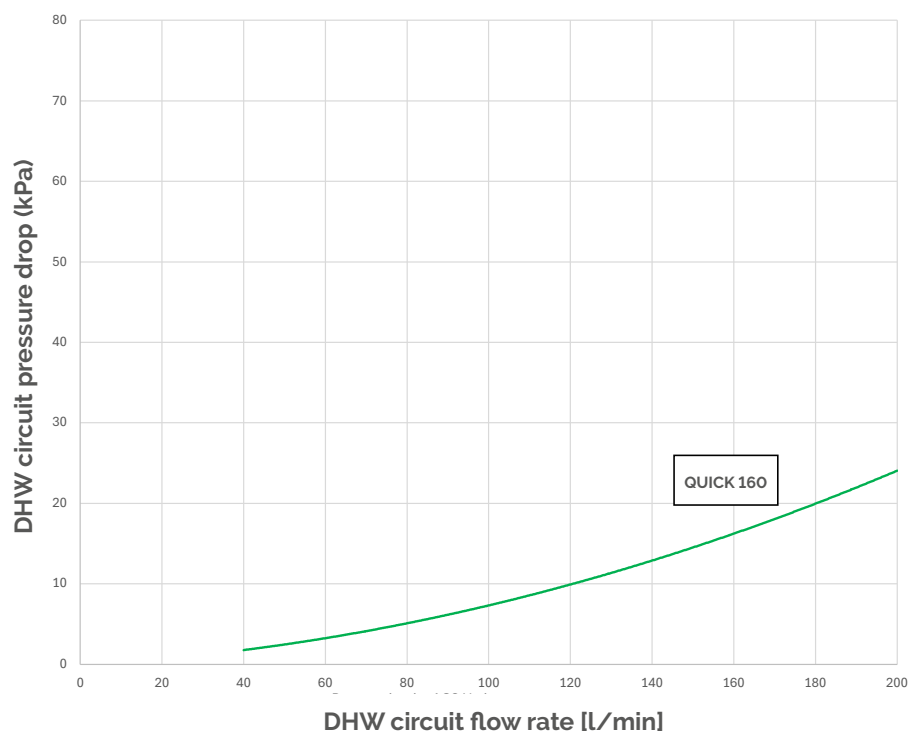
Deliverable DHW flow rate
[l/min]



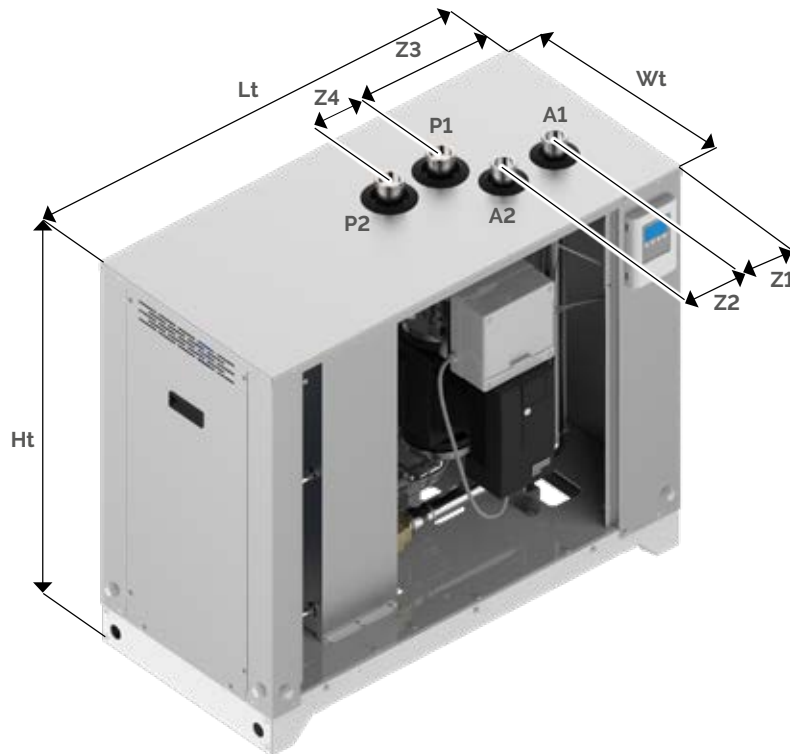
QUICK hydraulic performance



QUICK hydraulic performance



Dimensions and Specifications



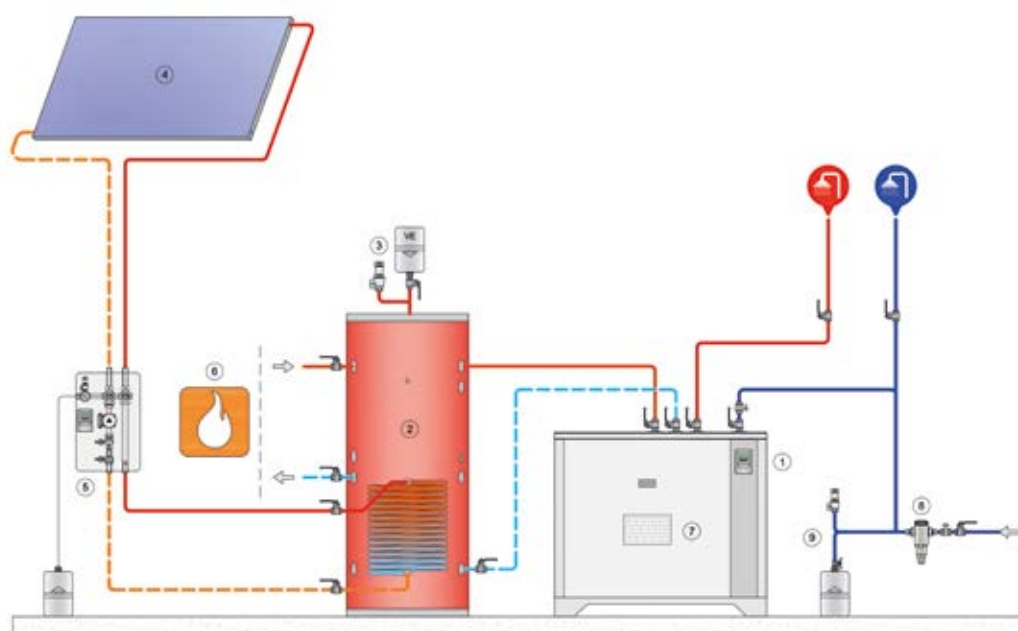
Legend

A1	DHW input
A2	DHW output
P1	Output to energy source
P2	Input from energy source

Model	Lt mm	Ht mm	Wt mm	Z1 mm	Z2 mm	Z3 mm	Z4 mm
QUICK 60	1004	871	484	153	125	346	125
QUICK 70	1004	871	484	153	125	346	125
QUICK 80	1004	871	484	153	125	346	125
QUICK 100	1004	871	484	153	125	346	125
QUICK 120	1004	871	484	153	125	346	125
QUICK 160	1254	871	484	153	172	345	125
QUICK 200	1220	1100	550	90	125	389	125

Technical Data	QUICK PLUS						
	60	70	80	100	120	160	200
Power supply (V/Ph/Hz)	230/1/50						
Max. primary pump power (W)	310			450		480	600
Max. primary pump absorption (A)	1,37			2,01		2,2	2,7
Maximum power recirculation pump system manageable by the control unit (W) (pump not supplied)	460						
Primary flow rate (litres/h)	6700	8200	9000	11000	14000	14000	22000
Primary circuit residual head (m.c.a.)	2,0	4,0	2,0	2,0	4,0	4,0	2,0
Primary circuit volume (l)	2,66	2,90	3,15	3,87	4,84	6,1	6,55
DHW circuit volume (l)	2,54	2,14	3,06	3,77	4,71	6,3	6,37
Maximum primary and DHW working pressure (bar)	10						
Primary circuit connections (inch)	1" 1/2 GAS M					2" 1/2 GAS M	
Secondary circuit connections (inch)	1" 1/4 GAS M					2" GAS M	
Maximum operating temperature (°C)	95						
Electrical protection class	IP40						
Minimum ignition flow DHW (L/min)	5	5	10	10	10	10	20
Maximum DHW flow rate (L/min)	100	100	200	200	200	200	400

Installation diagram in combination with thermal storage



Legend

1	QUICK instantaneous hot water preparation
2	HEIZERSILE PUW-1 storage heater
3	Heating-side safety devices: expansion vessel and safety valve
4	Solar thermal collector
5	Solar thermal return unit
6	Heating from primary or alternative source
7	DHW recirculation pumps integrated in QUICK module
8	Bacteriostatic cold water filter
9	Safety devices on the DHW side: expansion vessel and safety valve

Note: An expansion tank must be installed on the cold water line

Standard equipment

The QUICK PLUS instant heater is delivered on a pallet and comes complete with:

- ✓ Instantaneous preparation unit complete with electrical panel for mains connection;
- ★ wner's manual.

Standard Accessories

Various accessory kits are available to match the QUICK heater.

Description	Digital outputs
QUICK cascade connection kit	1
Recirculation Kit	1
Mixer kit on primary circuit	2
Storage stratification kit (with external diverter)	1
Multigateway	1

*The control unit manages up to 3 digital outputs: check the availability of free outputs and the requirements of the various accessories.



MULTIGATEWAY - Remote control for QUICK instantaneous system



The Multigateway is a device with a touchscreen display for the remote management of devices that dialogue with the CAN protocol. Once the Multigateway is installed, it is possible to manage the system directly via the App or with the integration of a BMS (Building Management System) that communicates using the Modbus protocol.

In the case of a QUICK cascade, it is sufficient to use 1 Multigateway.

Conditions of Use

- ✓ Protection class: IP 20
- ✓ Temperature: 0°C - 50°C
- ✓ CAN cable length < 3 m, or shielded cable must be used

Main features

- ✓ Data Logger
- ✓ CAN Fieldbus
- ✓ Modbus RTU RS 485
- ✓ WiFi module
- ✓ Touchscreen display
- ✓ Power supply 12/24 V
- ✓ App available for Android & iOS
- ✓ Dimensions: 75 x 95 x 19 mm
- ✓ ABS shell and glass front

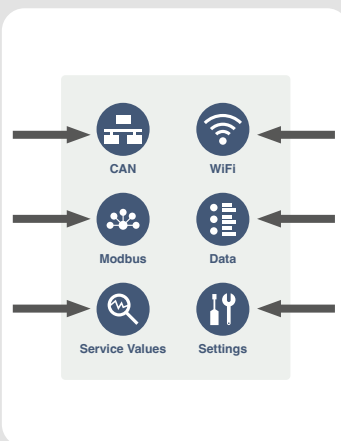


Main menu

CAN
Adding Devices to the Network

Modbus
Protocol-specific settings

Service values
Messages and system data



WiFi
WiFi Settings

Date
Settings for data storage

Settings
Device parameters such as language, brightness, etc.

Recirculation kit

The recirculation kit allows you to exploit the multiple possibilities offered by the electronic controller to control the DHW recirculation circuit pump (circulator not supplied).

Possible settings:

- ✓ Programming of recirculation in time slots. The recirculation pump is only activated at enabled times and when the recirculation temperature is below the set temperature.
- ✓ Recirculation pump always on.
- ✓ Activation of the circulation pump after a short withdrawal. This system allows the recirculation pump to be activated only when strictly necessary, allowing the DHW circuit to be heated without the unnecessary loss of drinking water.

Kit equipment

The kit is supplied separately, not assembled and includes:

- ✓ Temperature probe to be placed on the circulation loop
- ✓ Instructions

Recirculation pump

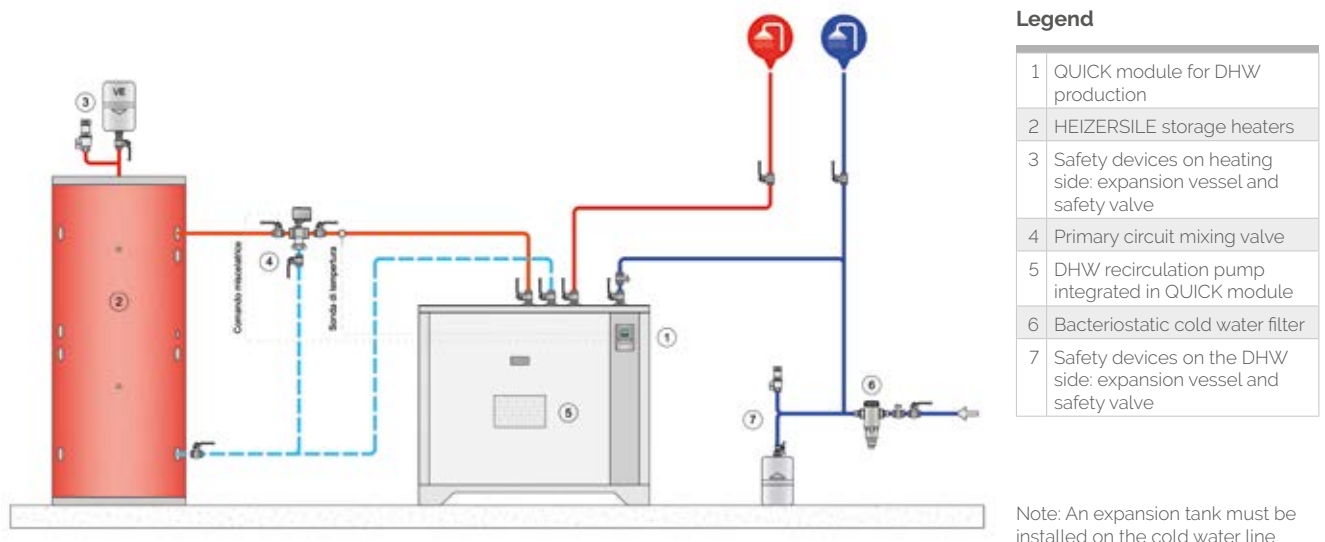
The recirculation pump is not supplied with the kit because it must be chosen according to the system specifications.

However, since it is controlled by the QUICK group controller, it must have the following characteristics.

- ✓ Power supply 230V/50hz/1ph
- ✓ Maximum power 460 W

Alternatively, the output of the control unit can be used to activate the coil of a contactor.

Mixer kit on primary circuit



The mixer kit makes it possible to adjust the inlet temperature to the instantaneous heater. In this way, especially in systems that can reach high temperatures in the primary circuit, the control precision of the heater is improved, thus ensuring greater comfort. In the case of cascade configuration, the recirculation and diverter valve can be connected to any controller. The mixer in the cascade must be the one in operation: for this and to achieve correct valve sizing, a mixer should be installed on each appliance.

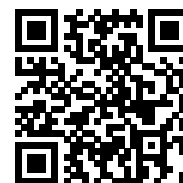
Kit equipment.

The kit is supplied separately, not assembled and includes:

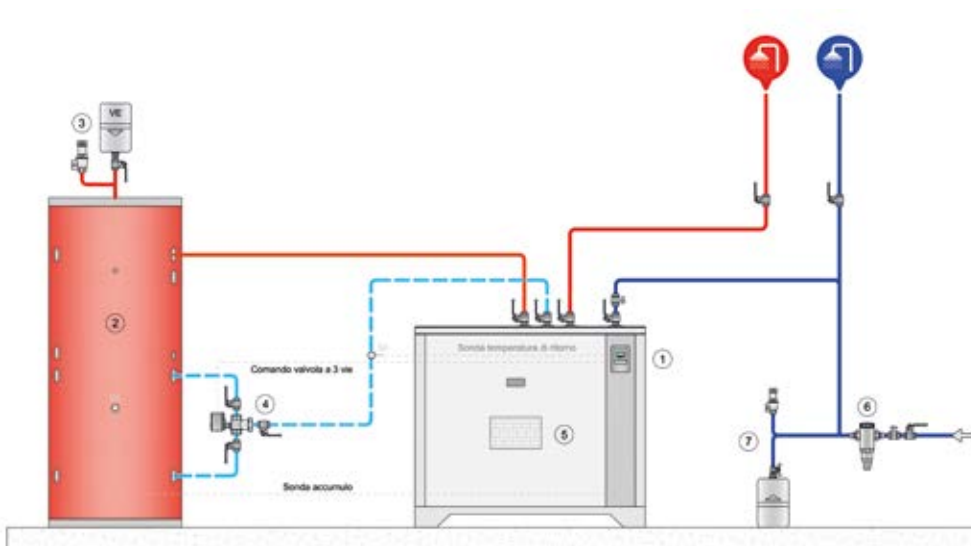
- ✓ Temperature probe S3 to be positioned at the heat exchanger inlet on the primary circuit
- ✓ Instructions
- ✓ Mixing valve

Storage stratification valve kit

The accumulation stratification kit allows the return from the instantaneous water heater to be directed to the lower part or mid-accumulation by comparing the various temperatures, favouring the phenomenon of stratification within the thermal storage tank and maximising the efficiency of the entire heating system.



ACCESSORIES
PRICES



Legend

1	QUICK module for DHW production
2	HEIZERSILE storage heaters
3	Safety devices on heating side: expansion vessel and safety valve
4	Three-way valve for storage stratification
5	DHW recirculation pump integrated in QUICK module
6	Bacteriostatic cold water filter
7	Safety devices on the DHW side: expansion vessel and safety valve

Note: An expansion tank must be installed on the cold water line

Kit equipment.

The kit, supplied separately and not assembled, comprises:

- ✓ Temperature probe S5 to be positioned in the middle of the storage tank
- ✓ Temperature sensor S6 on the return of the primary circuit
- ✓ Instructions
- ✓ Stratification valve

QUICK PLUS accessory codes and prices

External accessories kit		Digital outputs*	price
342030092X	QUICK QUICK OUTSIDE KIT DN32 - models 60 - 70 - 80 - 100 - 120 - 160	-1	705,00 €
342030140X	QUICK QUICK OUTSIDE KIT DN50 - model 200	-1	733,00 €
342040009X	QUICK PLUS EXTERNAL RECIRCULATION KIT (NO PUMP)	-1	65,00 €
342030096X	QUICK DN 40 STORAGE TANK STRATIFICATION KIT (WITH EXTERNAL DIVERTER)	-1	943,00 €
342030098X	EXTERNAL MIXER KIT QUICK DN40	-2	1.397,00 €
C24090225	EXTERNAL RELAY 1W 6A OUTPUT 0-10V IP55	+1	89,00 €
C22120078	MULTIGATEWAY	0	498,00 €

*The L-model control unit manages up to 3 digital outputs: check the availability of free outputs and the requirements of the various accessories.

Wenkel S.r.l

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