

DHW SYSTEMS

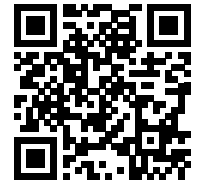
DHW INSTANTANEOUS SYSTEMS

QUICK



DHW Instantaneous systems

QUICK



PRICES

The new QUICK is an instantaneous domestic hot water production module using a brazed stainless steel plate heat exchanger.

QUICK comes complete with a control unit for regulating DHW temperature, time slots, accessory management and much more. The QUICK version shares compact components and dimensions with the T-QUICK version, but has more options and control possibilities.

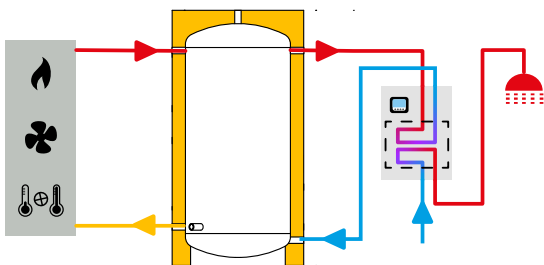
The special **electronic regulation** takes place by means of a control unit and flowmeter on the secondary circuit. The control unit with graphic display allows the user to monitor operation as well as easily set the operating parameters.

For maximum comfort of use, various accessories are available including the new domestic hot water **RECIRCULATION KIT** to be installed inside the unit. Find out more on page 263

Plus

- ✓ Compact wall unit with small footprint
- ✓ Pre-painted sheet metal casing
- ✓ Arrangement for installation of DHW recirculation kit
- ✓ Closed-cell polyethylene foam insulation insulating the entire hydraulic system
- ✓ Domestic hot water piping in STAINLESS STEEL
- ✓ Shut-off valves on each connection
- ✓ Integrated safety valve on the DHW circuit
- ✓ Easy Plug and Play installation
- ✓ Simple and economical use
- ✓ Ultrasonic flowmeter (QUICK 80 only)

 Start-up : first start-up recommended.



QUICK is available in 4 models

Model	DHW nominal flow rate	Code	Price	With packaging	
				Dimensions cm	Weight kg
QUICK 20	(20 l/minute DHW)	342030149X	2.265,00 €	63x40x21	18
QUICK 30	(30 l/minute DHW)	342030150X	2.414,00 €	63x40x21	19
QUICK 40	(40 l/minute DHW)	342030151X	2.603,00 €	63x40x21	20
QUICK 80	(80 l/minute DHW)	342030180X	3.555,00 €	63x40x21	30



TESTED

QUICK 20, 30, 40



QUICK 80



QUICK

Main features

Efficient electronic regulation of pump speed

Possibility of controlling one circulation pump per DHW loop, with setting of pump operating time slots and circulation loop temperature below which the pump is activated

Anti-legionella treatment can be managed by means of thermal shocks along the entire DHW supply line (an additional heat source can be activated when the anti-legionella treatment is active); the anti-legionella function can be activated if a heat source above 65°C is present

High-efficiency electronic pump controlled by PWM signal

Wall mounting with wall plugs and gates supplied with the unit

Graphic display with:

- 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

Solar system circulator control and command

Heat generator management (boiler, heat pump, heating elements, etc.): possibility of activating and deactivating a heat generator when the storage temperature falls below the QUICK point

Cascade kit management

Mixer kit management on primary circuit

Storage stratification kit management

Specific features of the QUICK 80

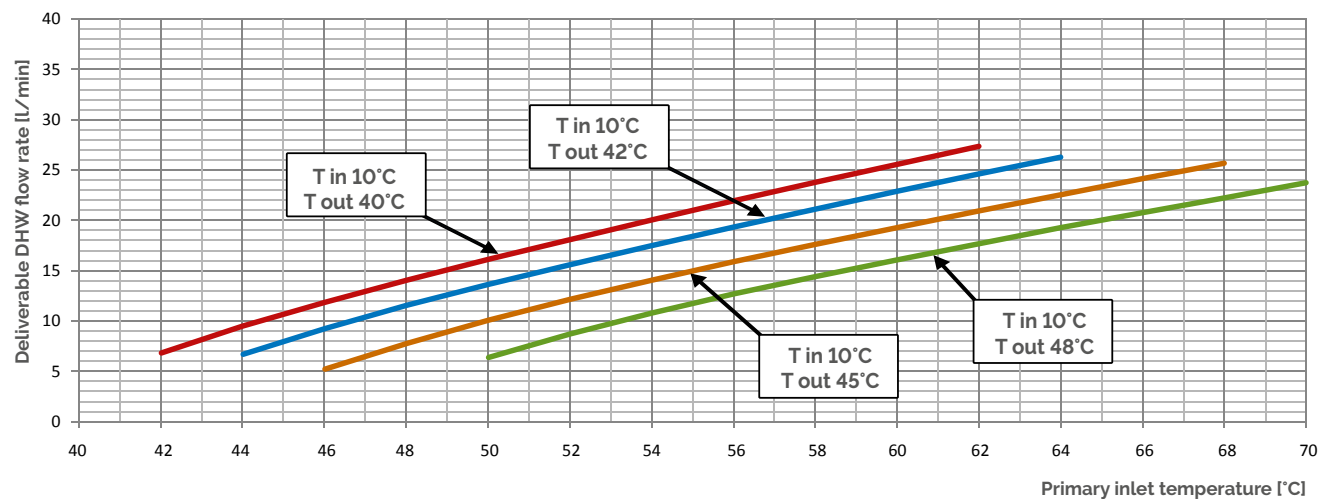
The new **ultrasonic flowmeter**, installed on the secondary circuit, has no mechanical components vulnerable to pressure fluctuations, guaranteeing longer product life and reliability. The flowmeter has an extremely high detection sensitivity: it starts at 1 L/min and goes up to 80 L/min.



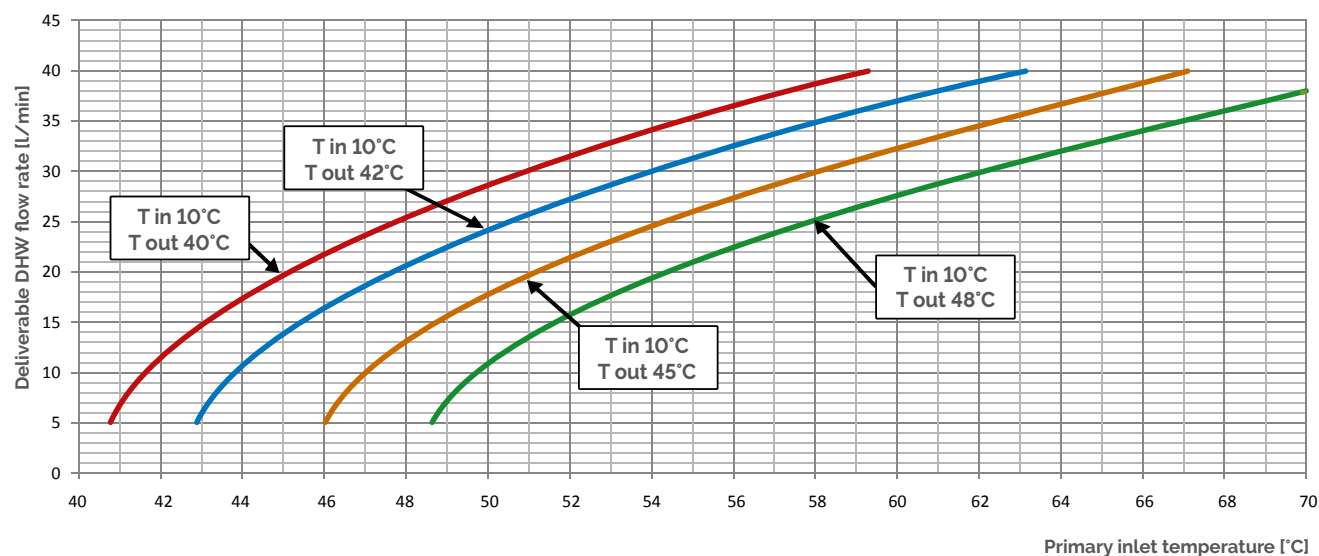
QUICK

Thermal performance

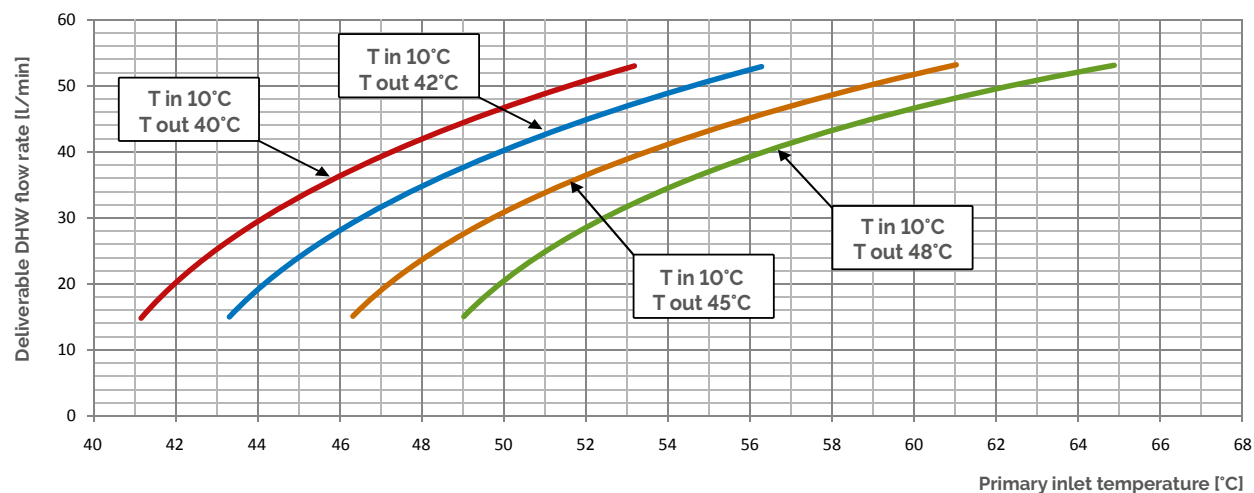
Thermal performance QUICK 20



Thermal performance QUICK 30



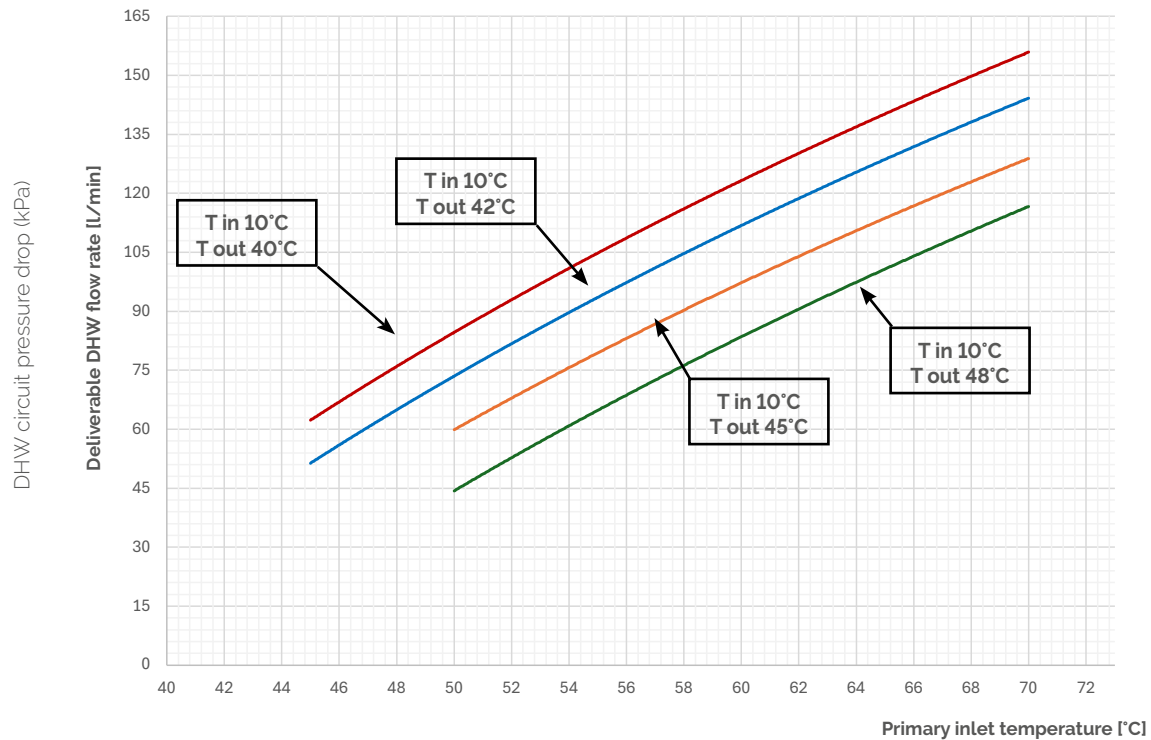
Thermal performance QUICK 40



QUICK

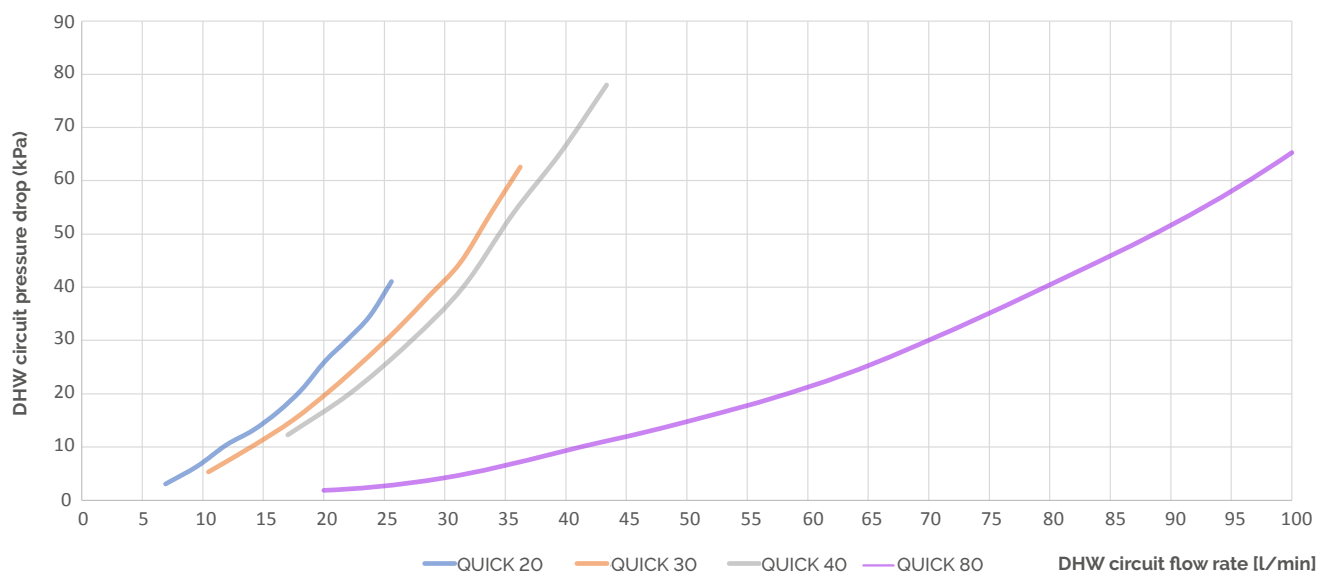
Thermal performance

Thermal performance QUICK 80



QUICK

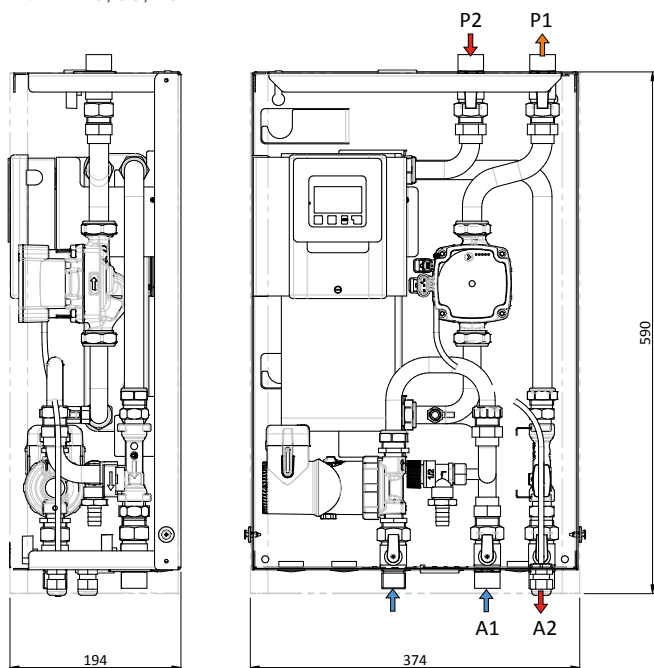
Hydraulic performance



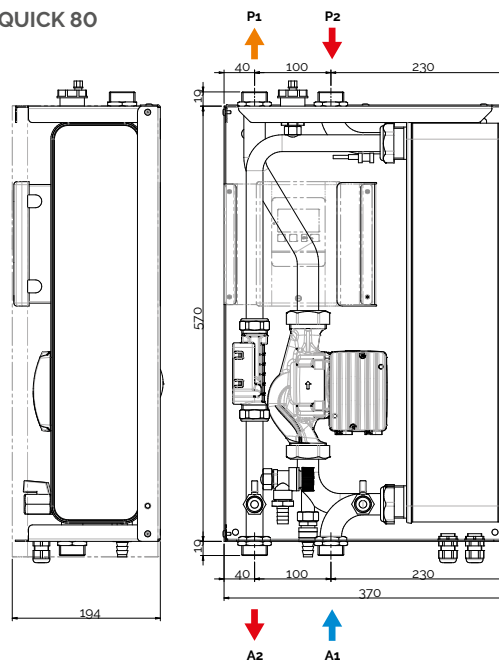
QUICK

Dimensions

QUICK 20, 30, 40



QUICK 80



Legend

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

The DHW recirculation pump shown in the drawing is optional

Technical Data Table

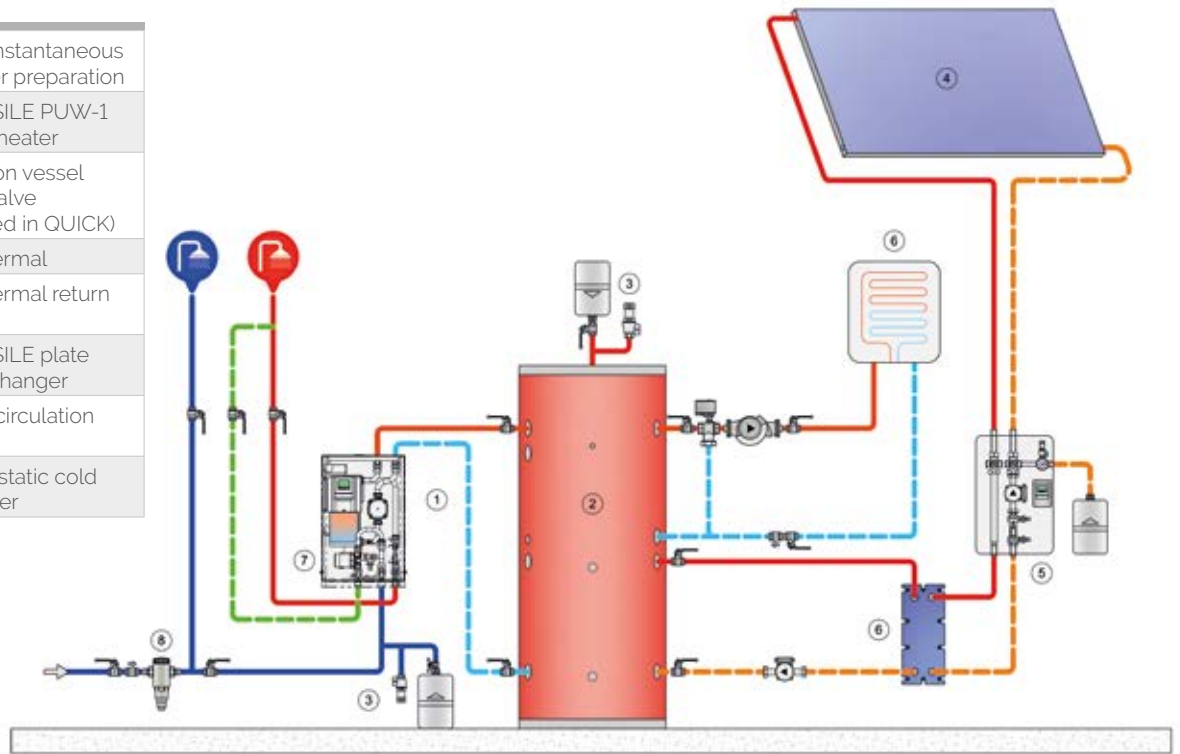
		QUICK 20	QUICK 30	QUICK 40	QUICK 80
Power supply	V/Ph/Hz	230/1/50			
Primary pump power min/max	W	10-75			3-180
Primary pump absorption min/max	A	0,03-0,66			0,04-1,42
Max. power recirculation pump system manageable by controller	W	460			
Primary flow rate	l/h	1500	1600	2500	5400
Residual headroom primary circuit	m.c.a.	5	4	3	4
Weight without packaging/with packaging	kg	17/18	18/19	19/20	27/28
Primary circuit volume	l	0,6	0,8	1,2	2,8
DHW circuit volume	l	0,7	0,9	1,4	2,9
Maximum operating pressure primary circuit	bar	6			10
Max. operating pressure DHW circuit	bar	10			10
Primary circuit connections	inches	UNI ISO 228/1 - G 3/4			UNI ISO 228/1 - G 1
Secondary circuit connections	inches	UNI ISO 228/1 - G 3/4			UNI ISO 228/1 - G 1
Maximum operating temperature	°C	95			
Electrical protection class		IP40			
Power supply cable length	m	1,5			
Minimum ignition flow rate DHW	l/min	2			
Maximum flow rate DHW	l/min	25	35	45	80
Dimensions (HtxLtxWt)	mm	590X374X194			

QUICK

Installation diagram in combination with thermal storage

Legend

1	QUICK instantaneous hot water preparation
2	HEIZERSILE PUW-1 storage heater
3	Expansion vessel (safety valve integrated in QUICK)
4	Solar thermal
5	Solar thermal return unit
6	HEIZERSILE plate heat exchanger
7	DHW recirculation pump
8	Bacteriostatic cold water filter



Standard equipment

The QUICK Instant Heater is delivered in a cardboard box and comes complete with:

- ✓ Instantaneous heater complete with electrical cable
- ✓ Jig for easy preparation of holes in the wall in which to anchor the instant heater
- ✓ Dowels and gates for fixing the instant mixer to the wall
- ✓ Operation and Maintenance Manual

QUICK

Accessories on request

Various accessory kits are available to be combined exclusively with the QUICK heater to improve yield, optimise consumption and increase user comfort:

1. QUICK cascade connection kit
2. QUICK recirculation kit
3. Mixer kit on primary circuit
4. Storage stratification kit (with external diverter)
5. External relay

Note: The electronic control unit of the QUICK manages up to 3 digital outputs, so it is necessary to check how many outputs are committed by each accessory chosen according to their requirements. The new QUICK model can be integrated with the external relay accessory to add a digital output to the control unit.

The following pages contain detailed specifications for each accessory: codes and prices can be found on page 265

QUICK cascade connection kit

The QUICK cascade connection kit (not usable on T-QUICK units), is the solution for all applications where the demand for domestic hot water is highly variable. In this way it is possible to connect up to a maximum of 8 instantaneous heaters, guaranteeing DHW production from a minimum of 2 l/min up to 360 l/min*. The electronic control units mounted on board each instantaneous water heater are able to communicate with each other via CanBus. In this way, depending on the conditions of use, the electronics decide how many and which heaters should be in operation.

Advantages and benefits:

- ✓ Wide DHW production range: 2 to 360 l/min
- ✓ Maximum reliability. Thanks to the auto-diagnosis performed by the control unit, in the event of a heater malfunction, the heater is automatically deactivated and an alternative heater is started. This ensures continuity of DHW supply
- ✓ Even more precise temperature regulation. The regulation allows the correct number of instantaneous heaters to be activated based on the flow rate and the required DHW temperature. In this way, each heater always operates at close to nominal conditions, improving efficiency and control accuracy.
- ✓ The system designed with cascade heaters can be expanded by adding further units at a later date.
- ✓ Possibility of carrying out scheduled maintenance on heaters without interrupting the supply of DHW.
- ✓ Each heater works an equal number of hours, ensuring maximum system longevity.

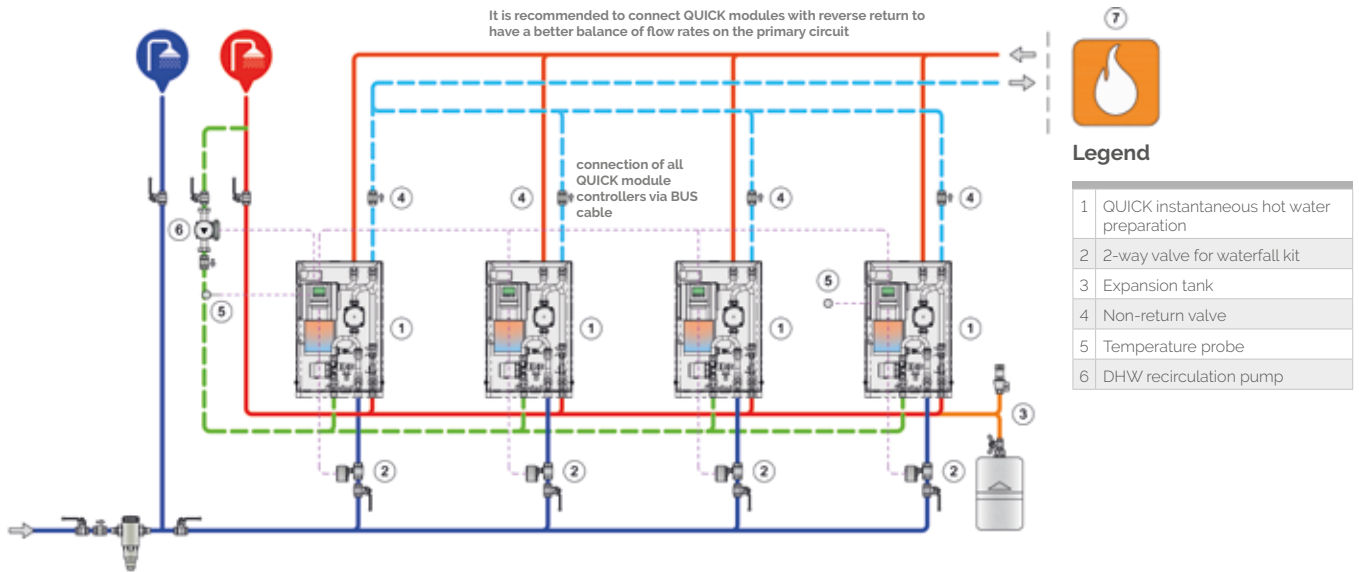
Kit equipment.

Install No. 1 kit for each instant heater. The kit is supplied separately, not assembled and includes:

- ✓ no. 1 motorised zone valve with 230 V fast motor
- ✓ no. 1 Fittings for connection
- ✓ no. 1 CanBus cable and No. 2 CanBus line terminating resistors
- ✓ Instructions

*The DHW flow rate deliverable by a cascade system is equal to the sum of the flow rates deliverable by each single active heater listed in the Thermal Performance section.

Installation diagram



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 has been 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.

- ✓ 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

Conditions of Use

- ✓ Protection class: IP 20
- ✓ Temperature: 0°C - 50°C

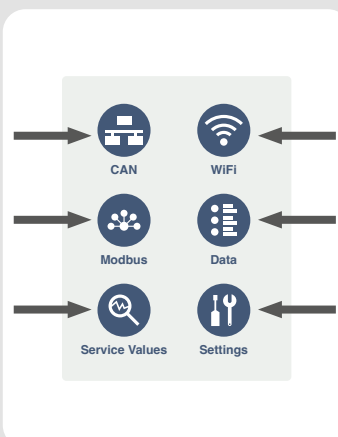


Main menu

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.

QUICK recirculation kit

The QUICK can be integrated with either an internal or external recirculation system: the internal recirculation kit (1) is equipped with a probe and circulator, while the external recirculation kit (2) consists of a probe to control an external circulator. The two kits can be selected individually but CANNOT be coupled.

The recirculation kits make it possible to exploit the multiple possibilities offered by the electronic controller to control the DHW recirculation circuit pump.

Possible settings of the electronic controller include, among others:

- Programming 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

(1) QUICK internal recirculation kit

The recirculation kit can be integrated inside the QUICK housing thanks to the hydraulic arrangements. When installing QUICK in cascade the internal recirculation kit cannot be used, but the external kit must be used. In any case, it must be verified that the performance of the recirculation pump is sufficient to deliver a flow rate adequately higher than the flowmeter's minimum flow rate.

The kit is supplied separately, not assembled and includes:

- ✓ Circulator
- ✓ Temperature probe to be placed on the recirculation loop
- ✓ Recirculation connection pipe
- ✓ Shut-off valve
- ✓ Instructions

(2) QUICK external recirculation kit

The kit is supplied separately, not assembled and includes:

- ✓ PT1000 temperature probe to be placed on the recirculation loop
- ✓ Instructions

The recirculation pump is not supplied with the external kit.

A single-phase pump of maximum power 460W must be selected

Note: In the case of several QUICK units connected in cascade, a common recirculation pump can be installed, managed by the control unit of any of the units.



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.

Note: In the event that several QUICKs are installed in cascade if you wish to manage the primary inlet temperature, a mixer kit must be provided for each QUICK installed.

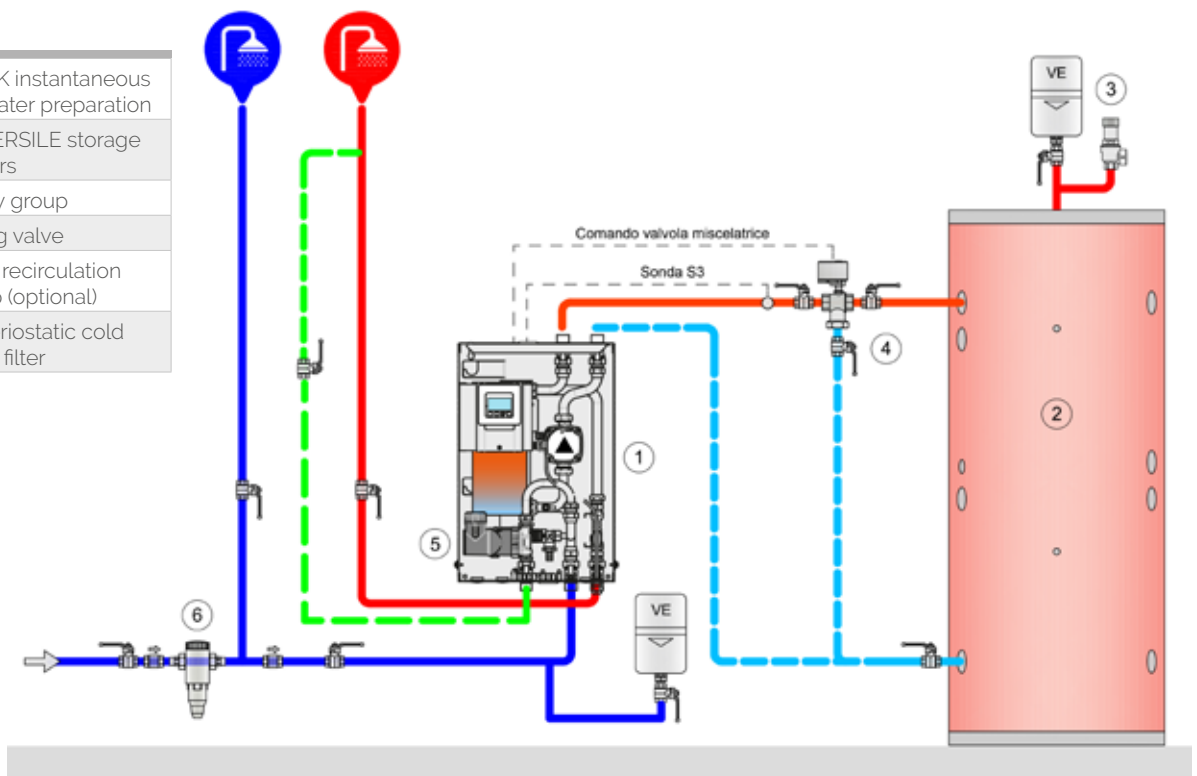
Kit equipment

The kit is supplied separately, not assembled and includes:

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

Legend

1	QUICK instantaneous hot water preparation
2	HEIZERSILE storage heaters
3	Safety group
4	Mixing valve
5	DHW recirculation pump (optional)
6	Bacteriostatic cold water filter



Storage stratification kit (with external diverter)

The stratification kit on the primary circuit (storage tank) allows the return from the instantaneous heater to be directed to 2 points at different heights of the storage tank, thus favouring the stratification phenomenon within the storage tank and maximising the efficiency of the entire heating system.

Note: If several QUICKs are installed in cascade, it is possible to install a single stratification kit managed by the control unit of any QUICK.



ACCESSORIES
PRICES

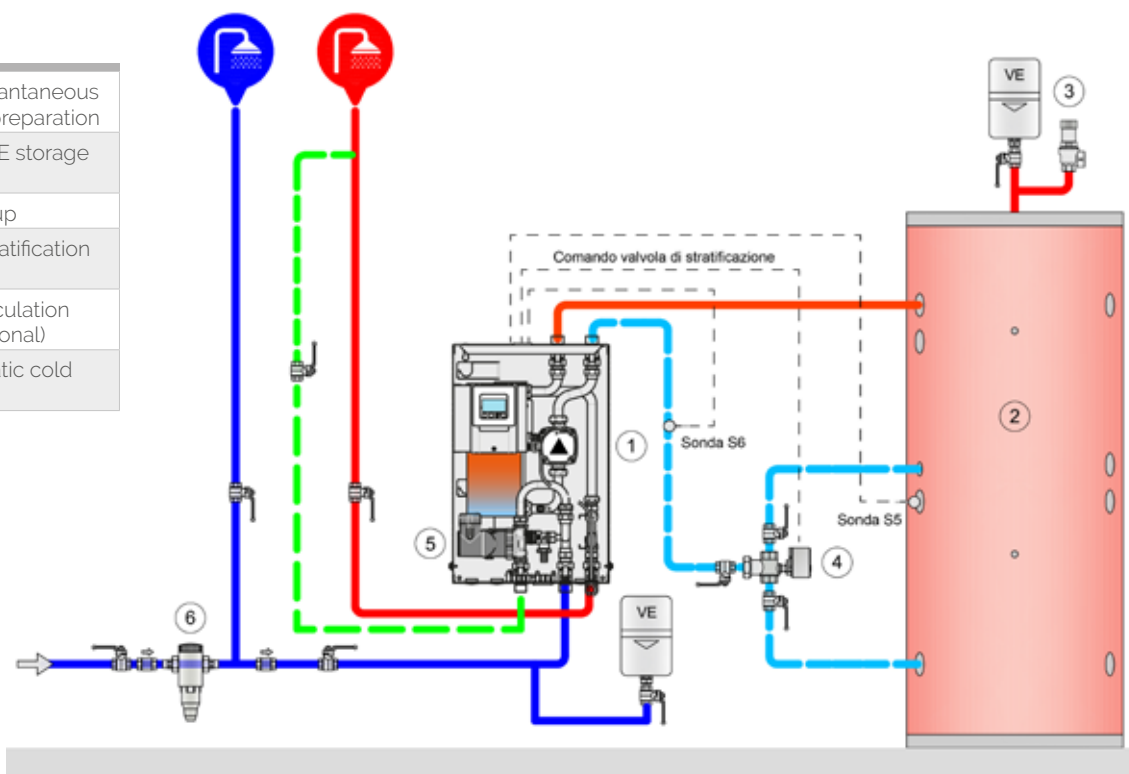
Kit equipment

The kit is supplied separately, not assembled and includes:

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

Legend

1	QUICK instantaneous hot water preparation
2	HEIZERSILE storage heaters
3	Safety group
4	Storage stratification valve
5	DHW recirculation pump (optional)
6	Bacteriostatic cold water filter



QUICK - Accessory codes and prices

Description	Digital outputs	Code	Price
EXTERNAL WATERFALL KIT QUICK 20, 30, 40	-1	342040006X	530,00 €
QUICK 80 EXTERNAL WATERFALL KIT	-1	342030092X	705,00 €
QUICK RECIRCULATION INTERNAL KIT	-1	342040004X	643,00 €
T-QUICK/QUICK EXTERNAL RECIRCULATION KIT (NO PUMP)	-1	342040009X	65,00 €
QUICK MIXER EXTERNAL KIT	-2	342040007X	455,00 €
QUICK STORAGE EXTERNAL STRATIFICATION KIT	-1	342040008X	263,00 €
MULTIGATEWAY	0	C22120078	498,00 €
EXTERNAL RELAY 1W 6A OUTPUT 0-10V IP55	+1	C24090225	89,00 €

Note: The controller manages up to 3 digital outputs: check the availability of free outputs and the requirements of the various accessories, the accessory is available: **External Relay 1W 6A OUTPUT 0-10V IP55** which converts one of the unused analogue outputs (V2) from 0-10V / PWM into a changeover contact (allows you to increase the controller's digital outputs by n°1)

Wenkel S.r.l

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