



GE556Y401 / GE556Y402

Description

The user Heat Interface Unit (HIU) GE556Y401 and GE556Y402 allows the metering of heat energy consumption for heating and the production of DHW (Domestic Hot Water) in modern autonomous systems with centralised heat production (e.g. district heating).

The management of the HIU parameters is completely electronic.

The various parameters can be set via remote control which also performs the function of programmable chronothermostat.

The HIU allows significant energy savings, minimizing the flow demand from the primary side and reducing the return temperature.

Main features

- Electronic thermoregulation with SET POINT, to manage the DHW temperature and heating temperature.
- Remote control with chronothermostat function to manage the parameter, with display.
- Multizone additional control by the free contact on the electronic board (additional thermostats to be ordered separately).
- External temperature sensor for climatic compensation.
- Heat exchanger for instantaneous DHW production.
- Flow control switch for priority DHW production.
- Motorized three-way priority valve on the delivery of the primary side.
- Motorized two-way modulating valve on the return of the primary side.
- Manual air vent filter and valve on the primary side.
- Safety pressure switch for low pressure on the primary side.
- Electrical and thermal safety valve on the heating side.
- Connections 3/4".
- Self-modulating circulator 15/6, centre distance 130 mm, complying with ErP directive (2009/125/CE).
- Heat exchanger and fully insulated piping.
- WRAS-certified components for the domestic circuit.
- Spacers for inserting the meters.
- Painted sheet metal cabinet (RAL9010), with key locking.

Versions and product codes

Product code	Type	Heating side power	DHW heat exchanger rated power	Template with valves
GE556Y401	Heating and DHW production	26 kW	58 kW	GE551Y074
GE556Y402	Heating and DHW production	26 kW	67 kW	GE551Y074

Completion codes

The following components can be installed on each HIU:

- Heat energy meter of the GE552 series.
- Domestic hot water meter, GE552-2 series.
- Template with 6 shut-off valves and 3/4" connections: code GE551Y074
- Optional domestic cold water unit outlet: code GE550Y001

Note.
 Use energy meters approved in accordance with the standardized "flow disturbance elements" and provided for by the EN 1434 for null rectilinear section upstream and downstream of the meter, such as the GE552Y122.

Technical data

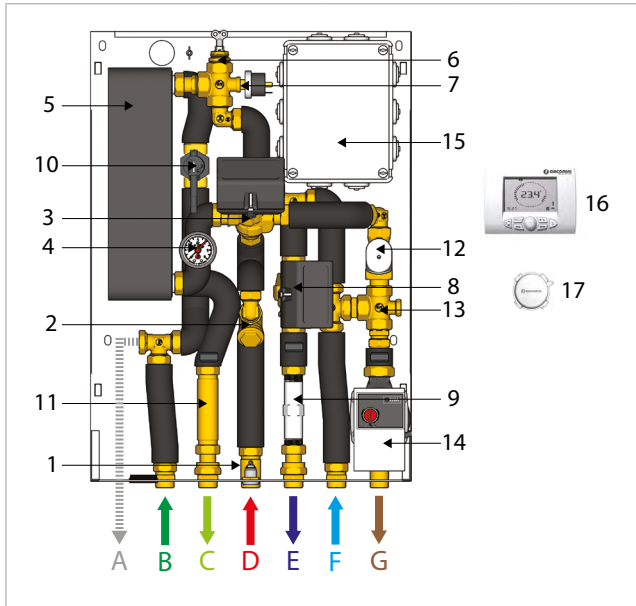
- Max. working temperature: 90 °C
- Max. working pressure: 10 bar

Warning.
 Maximum operating differential pressure for the primary side = 4 bar (priority valve)

- Temperature range of the secondary heating circuit:
 low temperature 25÷45 °C
 high temperature 25÷85 °C
- Temperature range of the secondary DHW circuit: 30÷60 °C (SET POINT 50 °C)
- Nominal flow rate on primary circuit: 1070 l/h @ 75 °C for 58 kW
 1150 l/h @ 75 °C for 67 kW

Warning.
 The HIU can be used in closed boiler rooms for operation with non-aggressive fluids (water, glycol-based water in compliance with VDI 2035/ÖNORM 5195).

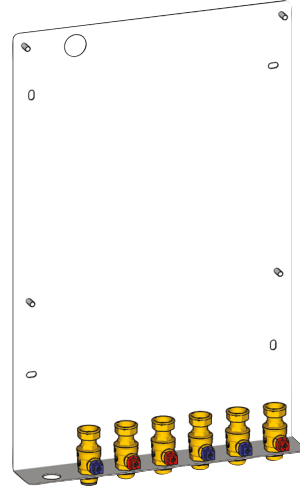
Components



Completion codes

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- Heat energy meter of the GE552 series.
- Domestic hot water meter, GE552-2 series.
- Optional domestic cold water unit outlet: code GE550Y001
- Template with 6 shut-off valves and 3/4" connections: code GE551Y074

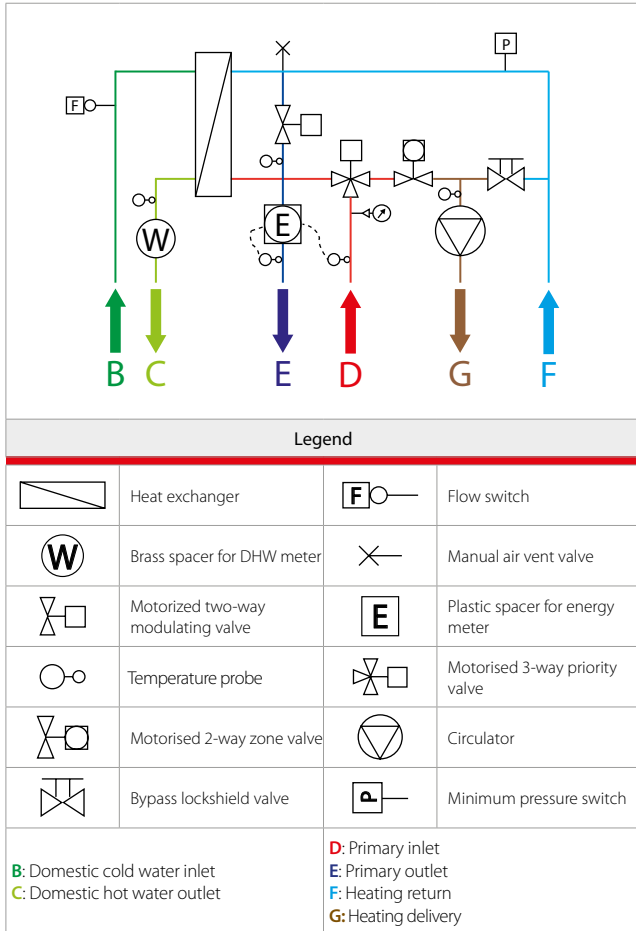


Legend

1	Housing for energy meter temperature probe	PRIMARY
2	Filter	
3	Motorized three-way priority valve for DHW	
4	Manometer	
5	Heat exchanger for the domestic hot water function	
6	Manual air vent valve	
7	Minimum pressure switch	
8	Motorized two-way modulating valve	
9	Plastic spacer for heat energy meter	
10	Flow switch	DHW PRODUCTION
11	Brass spacer for DHW meter	HEATING
12	Motorised 2-way zone valve for heating and electric safety	
13	Bypass lockshield valve	
14	Circulator	CHECKS
15	Cabinet with electronic regulation unit	
16	Remote control / chronothermostat with display	
17	External temperature probe	
A: Domestic cold water outlet (optional) B: Domestic cold water inlet C: Domestic hot water outlet		D: Primary inlet E: Primary outlet F: Heating return G: Heating delivery



Operation

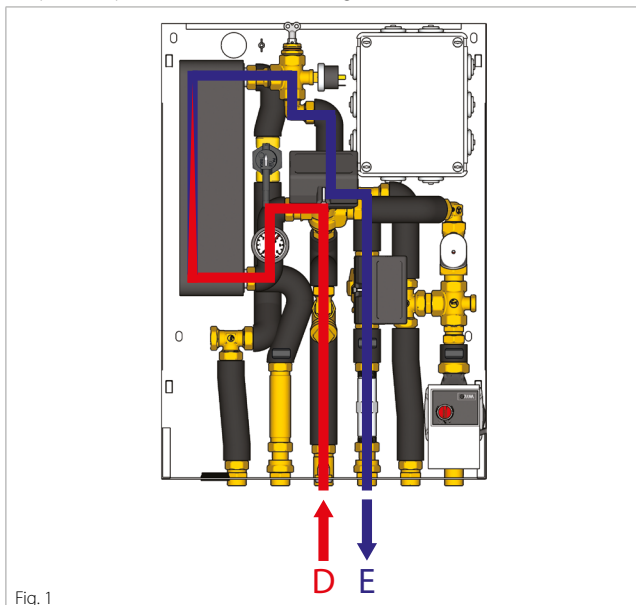


Primary

Inlet (D) and return (E). The primary circuit is composed of a Y-filter, a motorized three-way priority valve, a manual air vent valve, a heat exchanger, a manometer, a minimum pressure switch and a motorized two-way modulating valve.

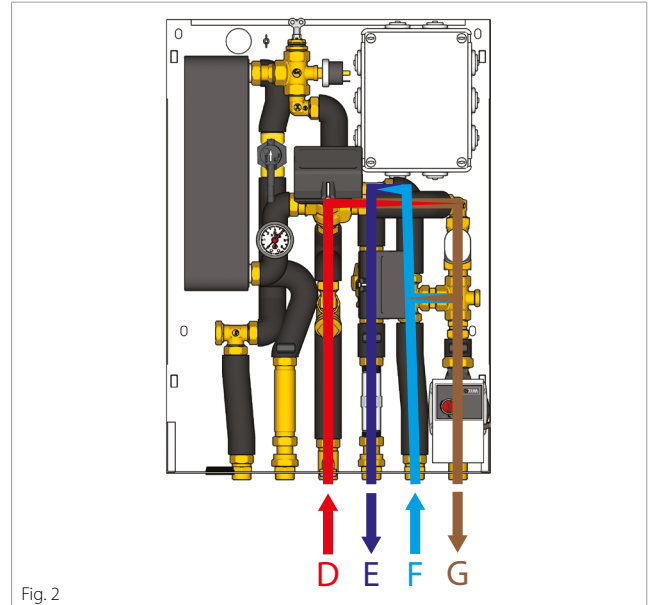
Energy Saving function: the two-way modulating valve controlled by the electronic management of the HIU, restricts the flow demand from the primary to the minimum necessary to obtain the pre-set SET POINT temperature. The priority valve diverts the flow in the heat exchanger (if there is a request of DHW: DHW flow switch enabled) or in the heating system.

The heat energy meter can be installed in place of the plastic spacer, fitting its temperature probe in the relative housing (1).



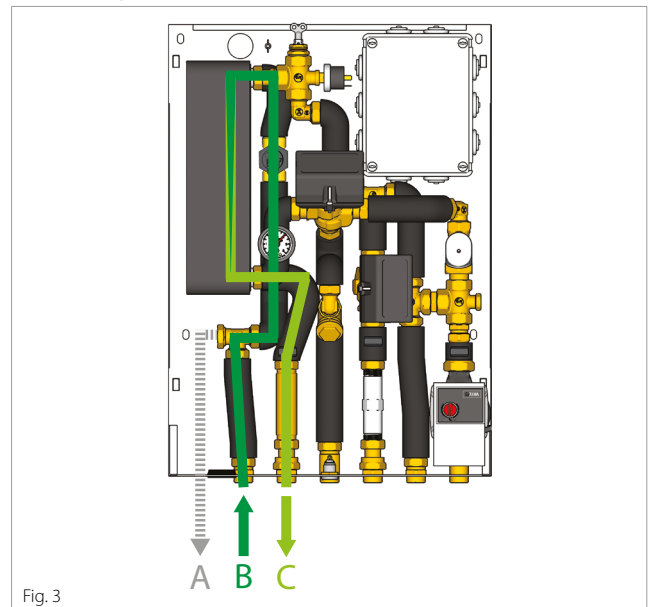
Heating

Delivery (G) and return (F). The heating circuit is composed of a motorized two-way zone valve with thermal safety function (the valve stops the flow in the system in the event the delivery temperature exceeds 5° C, the temperature set on the remote control - SET POINT), an adjustable bypass lockshield valve and a high-efficiency circulator (ErP 2009/125/EC).



Domestic hot water

Cold water inlet (B), hot water outlet (C) and cold water outlet (A - optional). The DHW circuit is comprised of a flow switch and a brass spacer for the introduction of the water meter. A hot water meter can be installed Instead of the brass spacer.



Settings of the remote control/chronothermostat

Operation in mode: OFF, SUMMER, WINTER, HEATING ONLY

The selection of the operating mode is done by repeatedly pressing the button

Off: "OFF" and the current time are shown on the display. Only the antifreeze function (if set) is enabled in this mode. Any request for the DHW or heating mode operation is ignored.

Summer: the measured room temperature, the current time and the icon are displayed . The DHW, if set, and the antifreeze function are enabled in this mode. Any request for the heating mode operation is ignored.

Winter: the display shows the measured room temperature, the time and the current day, the icons and the program set for the current day. All DHW, heating and, if set, antifreeze functions are enabled in this mode.

Heating only: the display shows the measured room temperature, the time and the current day, the icon and the program set for the current day. All heating and, if set, antifreeze functions are enabled in this mode. Any request for the DHW mode operation is ignored.

Lock and temperature setting

Depending on the operating mode selected (OFF / SUMMER / WINTER / HEATING ONLY) by pressing the button the clock and the temperature of the boiler can be set.

The value is displayed for a time equal to the display settings time delay and is identified by its flashing icon. Press key to pass to the next value and turn the knob to modify the value.

Clock: press key until the icon and the time value start to flash. Turn the knob to select the desired time. Press the knob to pass to the minutes. The minutes start flashing: turn the knob to select the desired minutes. Press the knob to pass to the day of the week. The days of the week start flashing: turn the knob to select the desired day. Press the knob to confirm the value entered.

Day Set point: press key until the icon and the day set point value start to flash. Turn the knob to select the desired value.

Night Set point: press key until the icon and the night set point value start to flash. Turn the knob to select the desired value.

Heating Set point: press key until the icon and the heating set point value start to flash. Turn the knob to select the desired value.

DHW Set point: press key until the icon and the DHW set point value start to flash. Turn the knob to select the desired value.

Kd: this setting is only available if the remote control is configured as the modulator with the use of the external probe (P04 = 2 or 3). press key until the icon and the relative value start to flash. Turn the knob to select the desired value.

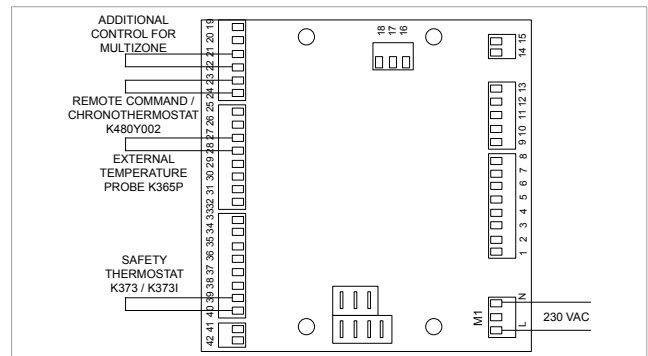
NB:
For the other operating modes of the remote control, refer to the corresponding instruction sheet.

Electric connections

Electronic board

An electrical cabinet IP55 containing the electronic control board is located at the top right of the HIU.

- The HIU is powered electrically by connecting the 230 V mains supply to the three-pin terminal board M1 of the electronic board.
- The remote control /chronothermostat (K480Y002) is connected to terminals 23-24 of the electronic board.
- The external temperature probe (K365PY002) is connected to terminals 27-28 of the electronic board.
- The optional safety thermostat (K373/K373I), is connected to terminals 39-40 of the electronic board.
- Multizone additional control to terminals 21-22 on the electronic board (additional thermostats to be ordered separately).



Technical data

- Electronic board power supply of the HIU: 230 V
- Supply voltage frequency: 50±60 Hz
- Ambient operating temperature: -20÷60 °C
- Ambient storage temperature: -20÷80 °C
- Humidity: max 90 % @ 40° C non-condensing
- Maximum absorption: 7 VA
- Maximum length of external probe cable: 30 m
- Maximum length of remote control cable: 30 m

M-Bus

To connect the M-Bus data transfer cable to the concentrator, refer to the data sheet of the heat energy meter used.

Protection and safety systems



Warning. Risk of burns and electric shock. The HIU must only be accessed by skilled personnel, authorised by the building administrator.

It is important that the HIU are accessed only by skilled personnel authorised by the building administrator: the box is locked. As optional is possible to install a K373/K373I safety thermostat to prevent the high temperature on the heating side.



Warning. Installation must be carried out by skilled personnel, authorised by the building administrator. Respect the regulations regarding the use (installation, fixing, etc.), operation, recalibration and replacement of the meters. Refer also to the assembly instructions provided with the meter.



Warning. Before connecting the template to the HIU, remove the lock nuts from the threaded connections.

Checks and Maintenance

Heating circuit pressure
Regularly check the pressure in the heating circuit by means of the manometer: the pressure value must be kept above 1 bar (values lower than this may cause cavitation, damaging the circulator). There is a pressure switch with a 0,8 bar setting to protect the circulator.



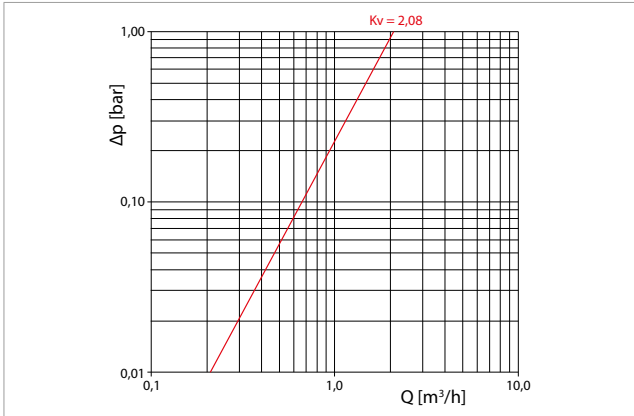
Warning. The HIU will turn off and the display on the remote control signals an error E71 if the pressure is less than 0,8 bar. Fill the system again to restart the HIU.

You must set up a filling system for heating - i.e. a connection from the domestic circuit to the heating circuit, with a suitable backflow preventer. Attention: risk of burns. Use the manual air vent to remove the air in the circuit.

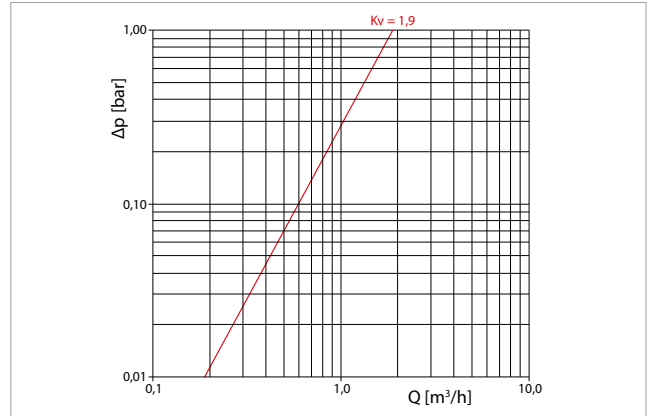


Operating data for GE556Y401

Primary circuit



Primary circuit for DHW production, modulating valve all open (see fig.1)



Primary circuit for heating, lockshield valve and modulating valve all open (see fig.2)

Heating

Low temperature heating (Δt 35-30 °C)			Primary circuit working conditions		
Circulator speed	Flow rate [l/h]	Power [kW]	Inlet T [°C]	Flow rate [l/h]	Outlet T [°C]
Max.	1500	8,8	75	170	30
			70	190	30
			65	215	30
			60	250	30

Low temperature heating (Δt 45-40 °C)			Primary circuit working conditions		
Circulator speed	Flow rate [l/h]	Power [kW]	Inlet T [°C]	Flow rate [l/h]	Outlet T [°C]
Max.	1500	8,8	75	215	40
			70	250	40
			65	300	40
			60	375	40

High temperature heating (Δt 60-45 °C)			Primary circuit working conditions		
Circulator speed	Flow rate [l/h]	Power [kW]	Inlet T [°C]	Flow rate [l/h]	Outlet T [°C]
Max.	1500	26,3	75	750	45
			70	900	45
			65	1130	45
Max.	1200	21	60	1200	45

High temperature heating (Δt 70-55 °C)			Primary circuit working conditions		
Circulator speed	Flow rate [l/h]	Power [kW]	Inlet T [°C]	Flow rate [l/h]	Outlet T [°C]
Max.	1200	21	75	900	55
			70	1200	55

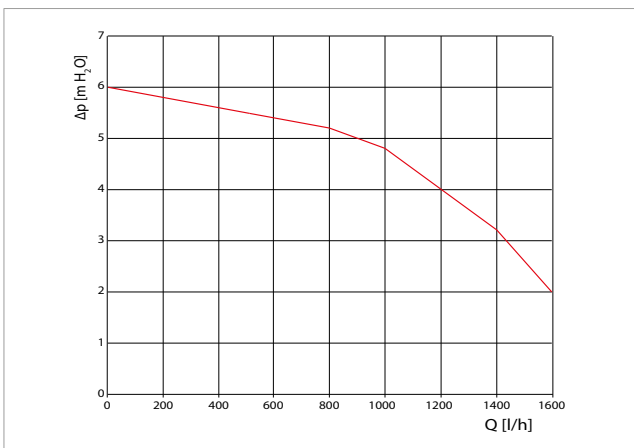
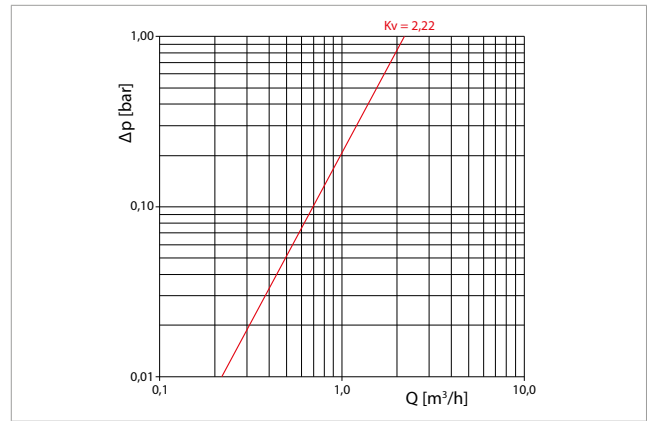


Diagram of the heating circulator - Circulator at Δp constant (see fig.2)



DHW production

Domestic hot water (Δt 15-50 °C)			Primary circuit working conditions		
Flow rate [l/min]	Flow rate [l/h]	Power [kW]	Inlet T [° C]	Flow rate [l/h]	Outlet T [° C]
12	720	33	75	495	24
			70	550	24
			65	665	27
			60	850	30
15	900	42	75	630	25
			70	720	26
			65	850	28
			60	1050	30
17	1020	47,5	75	730	26
			70	830	27
			65	1000	29
			60	1200	30
20	1200	56	75	875	27
			70	1000	28
			65	1200	30
			60	1450	31
22	1320	54	75	980	28
			70	1100	28
24	1440	58,8	75	1070	28
			70	1200	28

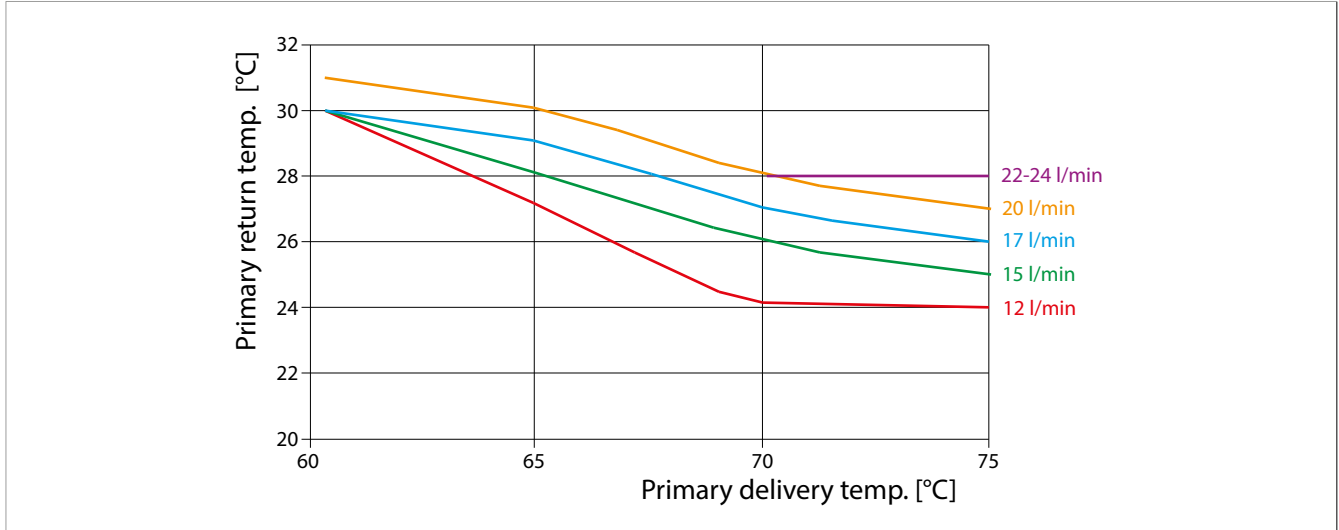


Hydraulic data for hot and cold domestic water circuits (see fig.3)



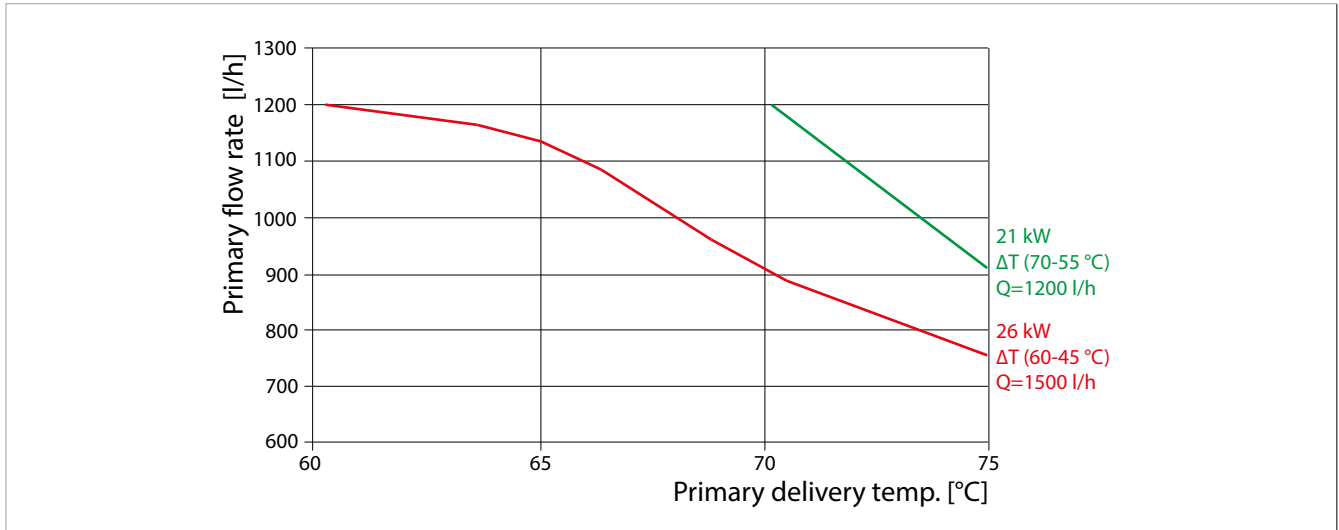
Energy saving features for GE556Y401

Low return temperatures of the primary in DHW operation

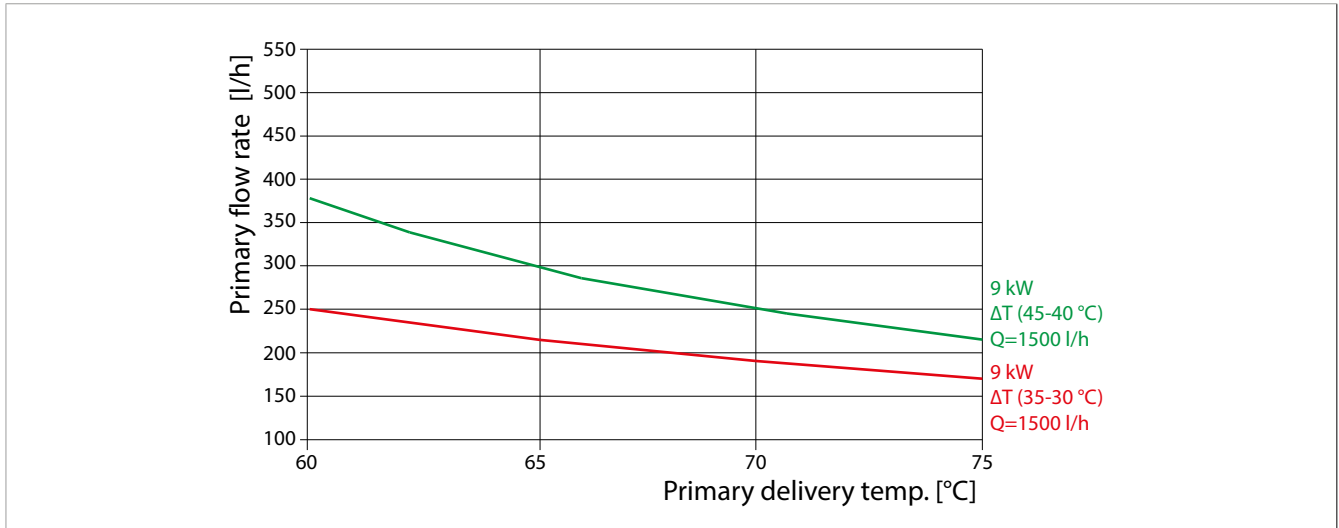


Reduced flow rates requests to the primary, in heating operation

High temperature:



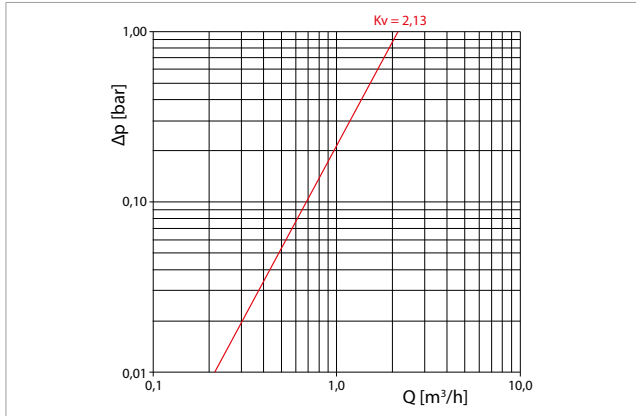
Low temperature:



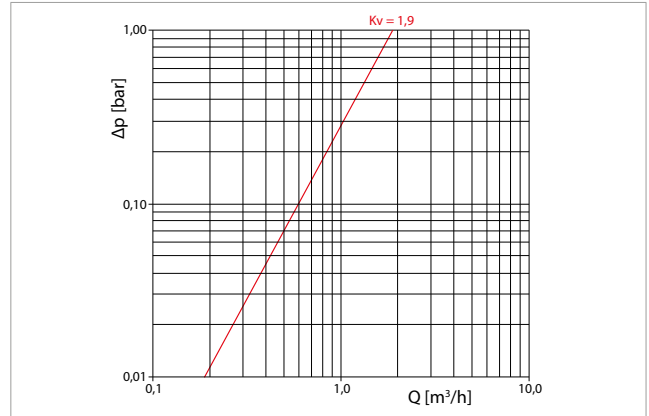


Operating data for GE556Y402

Primary circuit



Primary circuit for DHW production, modulating valve all open (see fig.1)



Primary circuit for heating, lockshield valve and modulating valve all open (see fig.2)

Heating

Low temperature heating (Δt 35-30 °C)			Primary circuit working conditions		
Circulator speed	Flow rate [l/h]	Power [kW]	Inlet T [°C]	Flow rate [l/h]	Outlet T [°C]
Max.	1500	8,8	75	170	30
			70	190	30
			65	215	30
			60	250	30

Low temperature heating (Δt 45-40 °C)			Primary circuit working conditions		
Circulator speed	Flow rate [l/h]	Power [kW]	Inlet T [°C]	Flow rate [l/h]	Outlet T [°C]
Max.	1500	8,8	75	215	40
			70	250	40
			65	300	40
			60	375	40

High temperature heating (Δt 60-45 °C)			Primary circuit working conditions		
Circulator speed	Flow rate [l/h]	Power [kW]	Inlet T [°C]	Flow rate [l/h]	Outlet T [°C]
Max.	1500	26,3	75	750	45
			70	900	45
			65	1130	45
Max.	1200	21	60	1200	45

High temperature heating (Δt 70-55 °C)			Primary circuit working conditions		
Circulator speed	Flow rate [l/h]	Power [kW]	Inlet T [°C]	Flow rate [l/h]	Outlet T [°C]
Max.	1200	21	75	900	55
			70	1200	55

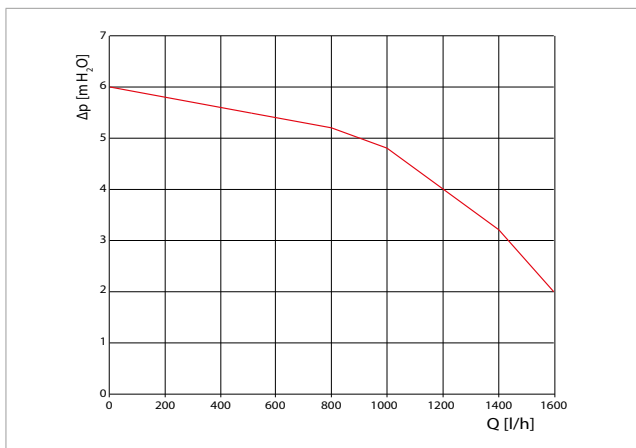
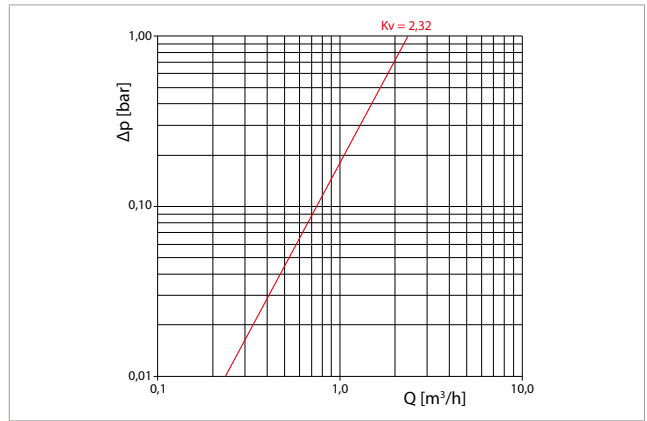


Diagram of the heating circulator - Circulator at Δp constant (see fig.2)



DHW production

Domestic hot water (Δt 15-50 °C)			Primary circuit working conditions		
Flow rate [l/min]	Flow rate [l/h]	Power [kW]	Inlet T [° C]	Flow rate [l/h]	Outlet T [° C]
12	720	33,5	75	510	18,5
			70	580	20
			65	670	22
15	900	42	75	660	20,5
			70	750	22
			65	880	24
17	1020	47,5	75	770	22
			70	880	23,5
			65	1020	25
20	1200	56	75	940	23,5
			70	1050	24,2
22	1320	61,5	75	1040	24
			70	1160	24,6
24	1440	67	75	1150	25
			70	1280	25

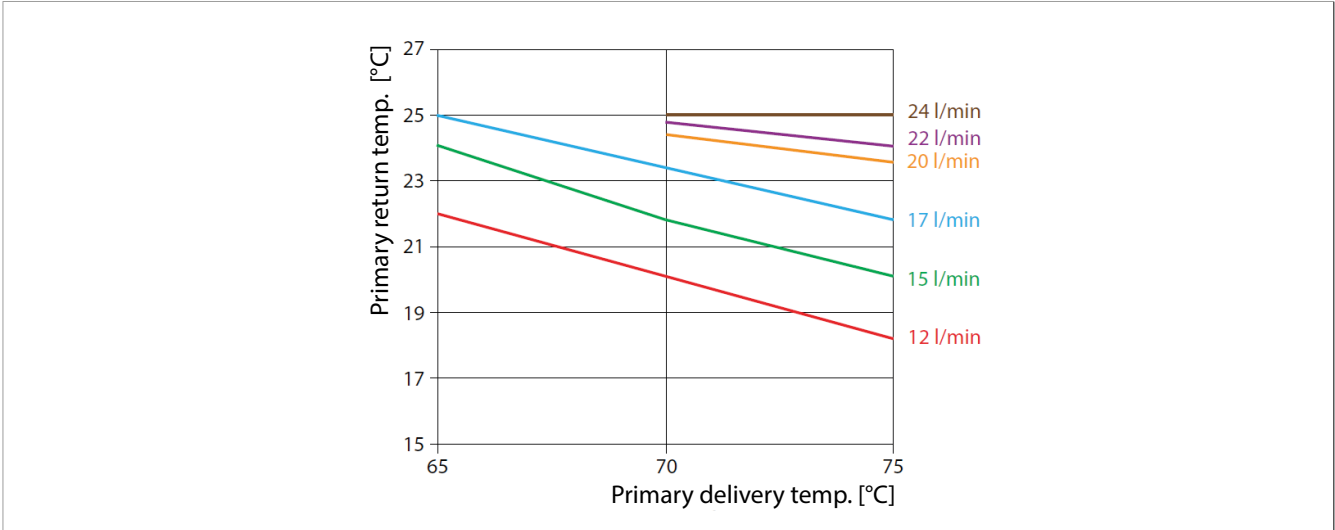


Hydraulic data for hot and cold domestic water circuits (see fig.3)



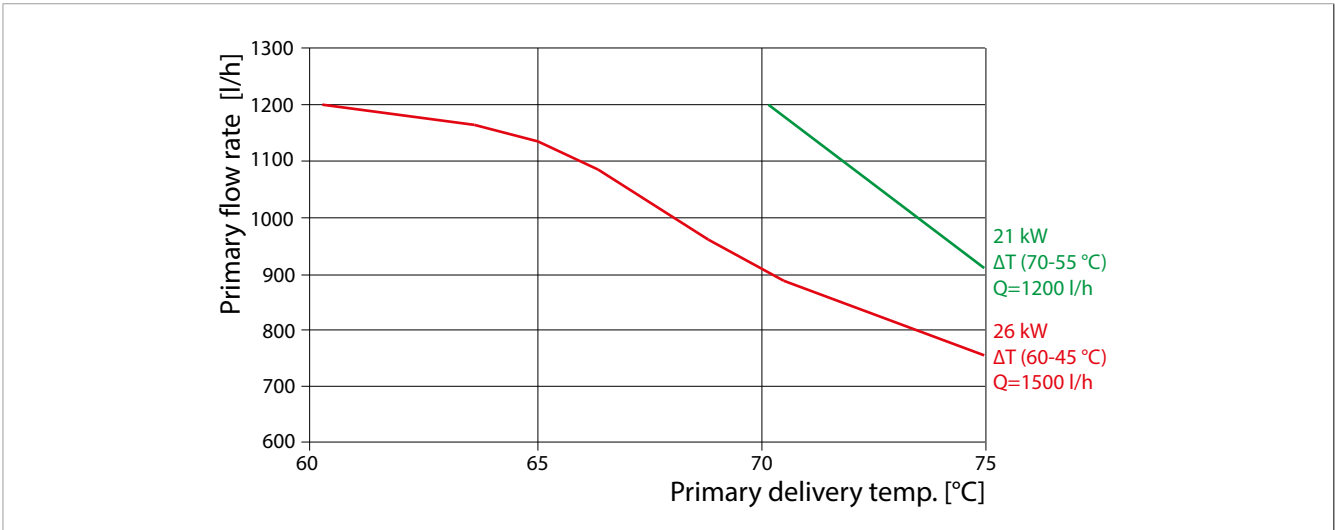
Energy saving features for GE556Y402

Low return temperatures of the primary in DHW operation

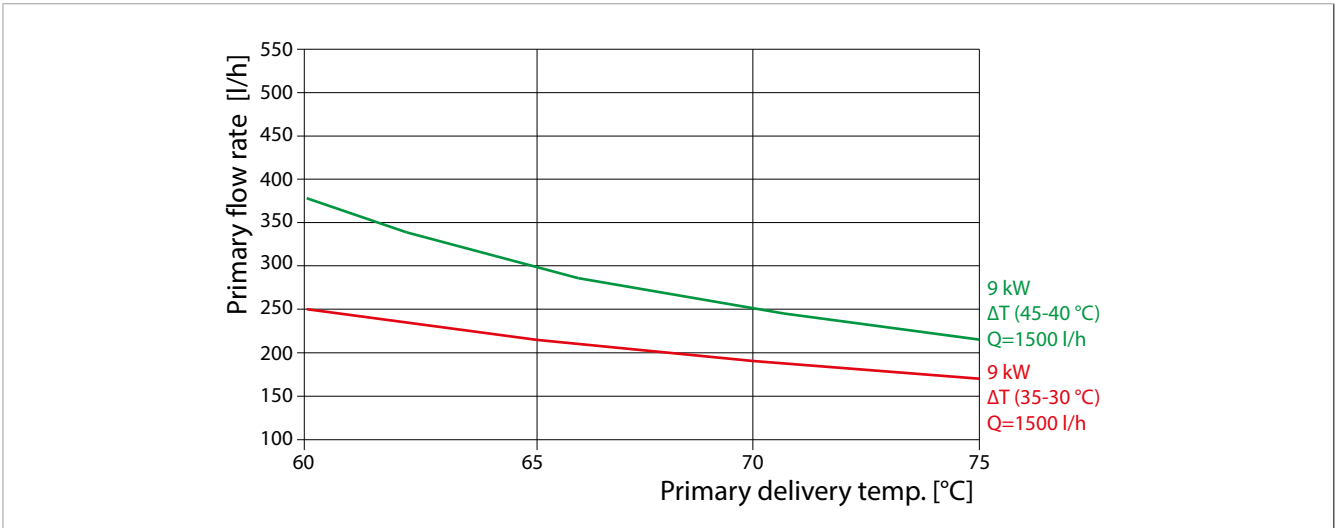


Reduced flow rates requests to the primary, in heating operation

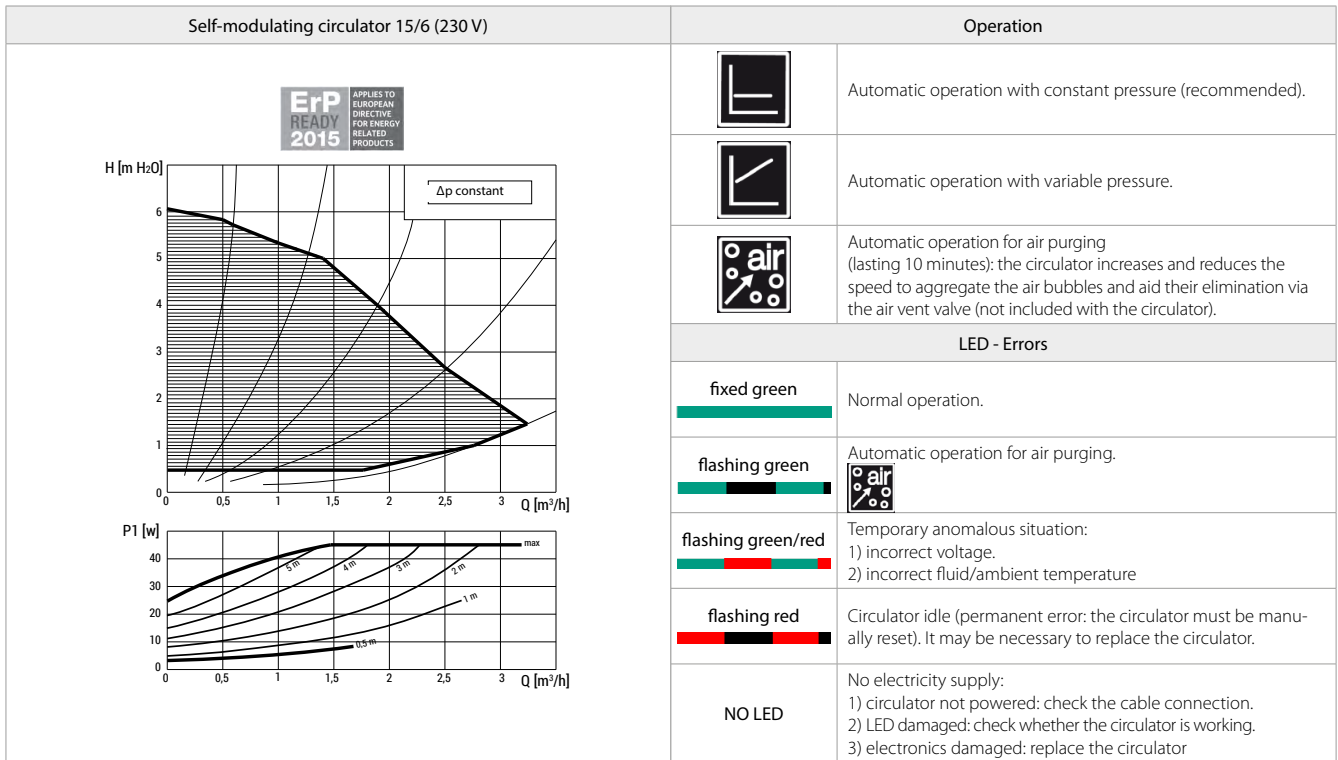
High temperature:



Low temperature:

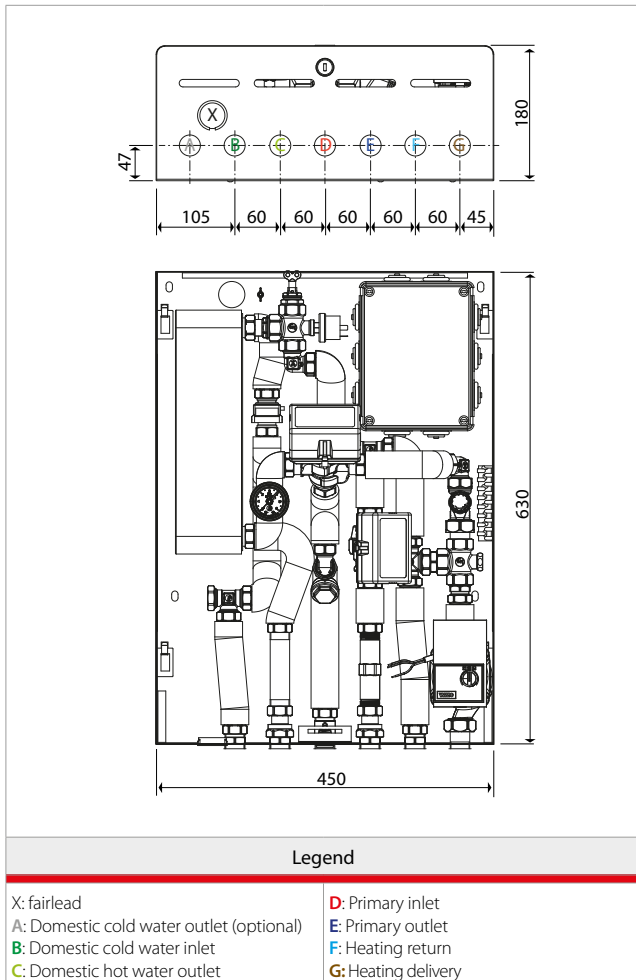


Circulator characteristics



Circulator characteristics

Dimensions



Dimensions in mm

Reference Standards

- UNI EN 1434
- EN 60751
- EN 61107
- Measuring Instruments Directive 2014/32/EU (MID)
- ErP Directive 2009/22/EC

WRAS certifications

Ref. "Components"	Components	Certificate number
-	Gaskets	1509514
10	Flow switch	2111302
5	Heat exchanger	1909083

To download the HIU "User and maintenance Manual" scan this QR Code



IT

AVVERTENZE PER IL CORRETTO SMALTIMENTO DEL PRODOTTO

Questo prodotto rientra nel campo di applicazione della Direttiva 2012/19/UE riguardante la gestione dei rifiuti di apparecchiature elettriche ed elettroniche (RAEE). L'apparecchio non deve essere eliminato con gli scarti domestici in quanto composto da diversi materiali che possono essere riciclati presso le strutture adeguate. Informarsi attraverso l'autorità comunale per quanto riguarda l'ubicazione delle piattaforme ecologiche atte a ricevere il prodotto per lo smaltimento ed il suo successivo corretto riciclaggio. Si ricorda, inoltre, che a fronte di acquisto di apparecchio equivalente, il distributore è tenuto al ritiro gratuito del prodotto da smaltire. Il prodotto non è potenzialmente pericoloso per la salute umana e l'ambiente, ma se abbandonato nell'ambiente impatta negativamente sull'ecosistema. Leggere attentamente le istruzioni prima di utilizzare l'apparecchio per la prima volta. Si raccomanda di non usare assolutamente il prodotto per un uso diverso da quello a cui è stato destinato, essendoci pericolo di shock elettrico se usato impropriamente.



Il simbolo del bidone barrato, presente sull'etichetta posta sull'apparecchio, indica la rispondenza di tale prodotto alla normativa relativa ai rifiuti di apparecchiature elettriche ed elettroniche. L'abbandono nell'ambiente dell'apparecchiatura o lo smaltimento abusivo della stessa sono puniti dalla legge.

EN

IMPORTANT INFORMATION FOR CORRECT DISPOSAL OF THE PRODUCT

This product falls into the scope of the Directive 2012/19/EU concerning the management of Waste Electrical and Electronic Equipment (WEEE). This product shall not be disposed in to the domestic waste as it is made of different materials that have to be recycled at the appropriate facilities. Inquire through the municipal authority regarding the location of the ecological platforms to receive the product for disposal and its subsequent correct recycling. Furthermore, upon purchase of an equivalent appliance, the distributor is obliged to collect the product for disposal free of charge. The product is not potentially dangerous for human health and the environment, but if abandoned in the environment can have negative impact on the environment. Read carefully the instructions before using the product for the first time. It is recommended that you do not use the product for any purpose rather than those for which it was intended, there being a danger of electric shock if used improperly.



The crossed-out wheeled dustbin symbol, on the label on the product, indicates the compliance of this product with the regulations regarding Waste Electrical and Electronic Equipment. Abandonment in the environment or illegal disposal of the product is punishable by law.

FR

AVERTISSEMENTS POUR L'ÉLIMINATION CORRECTE DU PRODUIT

Ce produit entre dans le champ d'application de la directive 2012/19 / UE relative à la gestion des déchets équipements électriques et électroniques (DEEE). L'appareil ne doit pas être jeté avec les ordures ménagères car il est fait de différents matériaux pouvant être recyclés dans des centres appropriés. Renseignez-vous auprès de l'autorité locale concernant l'emplacement des plates-formes écologiques appropriées pour recevoir le produit pour sa destruction et son recyclage correct ultérieur. Il convient également de rappeler que, en cas d'achat d'un appareil équivalent, le distributeur est tenu de collecter le produit à détruire. Le produit n'est potentiellement pas dangereux pour la santé humaine et l'environnement, mais s'il est abandonné dans l'environnement, il a un impact négatif sur l'écosystème. Lisez attentivement les instructions avant d'utiliser l'appareil pour la première fois. Il est interdit d'utiliser le produit pour un usage différent de celui auquel il était destiné, il y a risque de choc électrique si utilisé incorrectement.



Le symbole de la poubelle barrée sur l'étiquette de l'appareil indique sa correspondance produit à la législation relative aux déchets d'équipements électriques et électroniques. L'abandon dans l'environnement de l'équipement ou l'élimination illégale de l'équipement est punissable par la loi.

DE

WICHTIGE HINWEISE ZUR KORREKTEN ENTSORGUNG DES PRODUKTS

Dieses Produkt fällt in den Anwendungsbereich der Richtlinie 2012/19/EU über die Entsorgung von Elektro- und Elektronik - Altgeräten (WEEE). Dieses Produkt darf nicht in den Hausmüll entsorgt werden, da es aus verschiedenen Materialien besteht, die in entsprechenden Einrichtungen recycelt werden müssen. Erkundigen sie sich bei ihrer Gemeinde nach dem Standort des nächsten Recyclinghofs bzw. der nächsten Annahmestelle, um das Produkt dem Recycling zuzuführen bzw. fachgerecht zu entsorgen. Darüber hinaus ist der Händler verpflichtet, das Produkt beim Kauf eines gleichwertigen Geräts kostenlos zu entsorgen. Das Produkt ist für die menschliche Gesundheit und die Umwelt potenziell nicht gefährlich. Diese können sich aber, falls sie in der Umwelt gelangen, negativ auf diese auswirken. Lesen Sie daher vor dem ersten Gebrauch des Produkts die Inbetriebnahme-, Bedienungs- und Entsorgungsanweisungen sorgfältig durch. Es wird empfohlen, dass Sie das Produkt nur für den vorgesehenen Zweck verwenden. Bei unsachgemäßer Verwendung bzw. Fehlgebrauch besteht die Gefahr eines elektrischen Schlags.



Das Symbol der durchgestrichenen Mülltonne auf dem Etikett des Produkts weist auf die Konformität dieses Produkts zu den Vorschriften für Elektro- und Elektronik-Altgeräte hin. Das Ablagern in der Umwelt oder die illegale Entsorgung des Produkts ist strafbar.



Safety Warning

Installation, commissioning and periodical maintenance of the product must be carried out by qualified operators in compliance with national regulations and/or local standards. A qualified installer must take all required measures, including use of Individual Protection Devices, for his and others' safety.

An improper installation may damage people, animals or objects towards which Giacomini S.p.A. may not be held liable.



Package Disposal

Carton boxes: paper recycling.
Plastic bags and bubble wrap: plastic recycling.



Product Disposal

Do not dispose of product as municipal waste at the end of its life cycle.

Dispose of product at a special recycling platform managed by local authorities or at retailers providing this type of service.

Additional information

For more information, go to www.giacomini.com or contact our technical assistance service: ☎ +39 0322 923372 📠 +39 0322 923255 ✉ consulenza.prodotti@giacomini.com

This document provides only general indications. Giacomini S.p.A. may change at any time, without notice and for technical or commercial reasons, the items included herewith.

The information included in this technical sheet do not exempt the user from strictly complying with the rules and good practice standards in force.

Giacomini S.p.A. Via per Alzo, 39 - 28017 San Maurizio d'Opaglio (NO) Italy

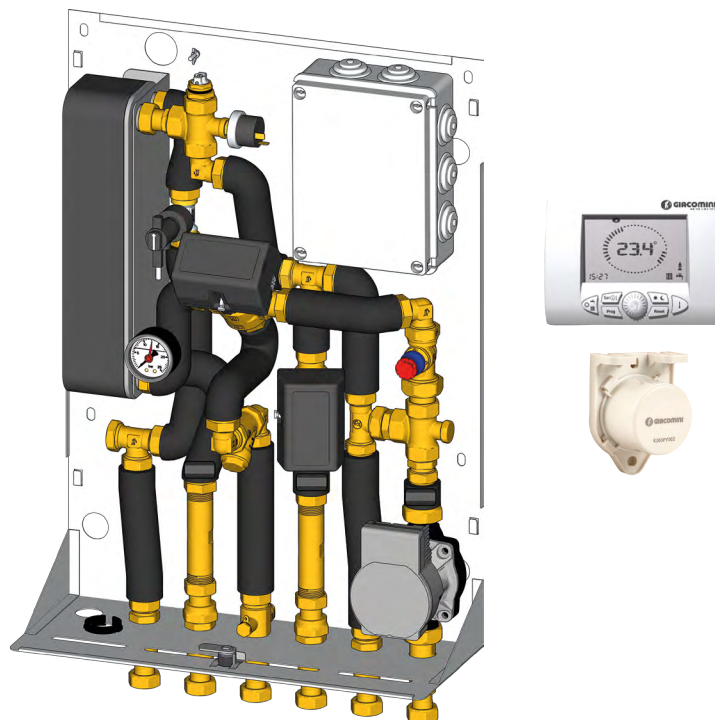
GE556-2



Energy
Management

GE556Y403/406 heat interface units with electronic regulation and adjustable tail pieces

Datasheet/Instruction
1071EN 05/2022
047U59108



The GE556Y403 and GE556Y406 heat interface units (HIU) allow the metering of heat energy consumption for heating and the production of DHW (Domestic Hot Water) in modern autonomous systems with centralised heat production (e.g. district heating).

The management of the HIUs parameters is completely electronic.

This allows significant energy savings, minimizing the flow demand from the primary circuit and reducing the return temperature. The various parameters can be set via remote control which also performs the function of programmable chronothermostat.

➤ Versions and product codes

PRODUCT CODE	HIU TYPE	HEATING CIRCUIT POWER	DHW HEAT EXCHANGER NOMINAL POWER	TEMPLATE WITH VALVES
GE556Y403	Heating and DHW production	26 kW	58 kW	GE551Y133/GE551Y134
GE556Y406	Heating and DHW production	26 kW	67 kW	GE551Y133/GE551Y134

🔗 **NOTE.** Remote control and external temperature probe included with HIU

Completion codes

- **GE552:** thermal energy meter
- **GE552-2:** domestic water meters
- **GE550Y010:** optional additional unit output for domestic cold water outlet
- **GE551Y133:** template with shut-off valves and 3/4" M system connections
- **GE551Y134:** raised template with shut-off valves and 3/4" M system connections
- **GE500Y258:** additional shut-off valve to be installed on the template when present the GE550Y010 unit output
- **R473M:** thermo-electro actuator for 2-way zone valve for thermal safety on the heating circuit
- Data centralization components via M-Bus, **GE552-4 series**, or via Wireless M-Bus, **GE552-W series**

🔗 **NOTE.** Use energy meters approved in accordance with the standardized "flow disturbance elements" and provided for by the EN 1434 for null rectilinear section upstream and downstream of the meter, such as the GE552Y122.

➤ Technical data

- Max. working temperature: 90 °C
- Max. working pressure: 10 bar
- Temperature range of the secondary heating circuit:
 - low temperature: 25÷45 °C
 - high temperature: 25÷85 °C
- Temperature range of the secondary DHW circuit: 30÷60 °C (Set-Point 50 °C)
- Nominal flow rate on primary circuit:
 - 1070 L/h @ 75 °C for 58 kW
 - 1150 L/h @ 75 °C for 67 kW

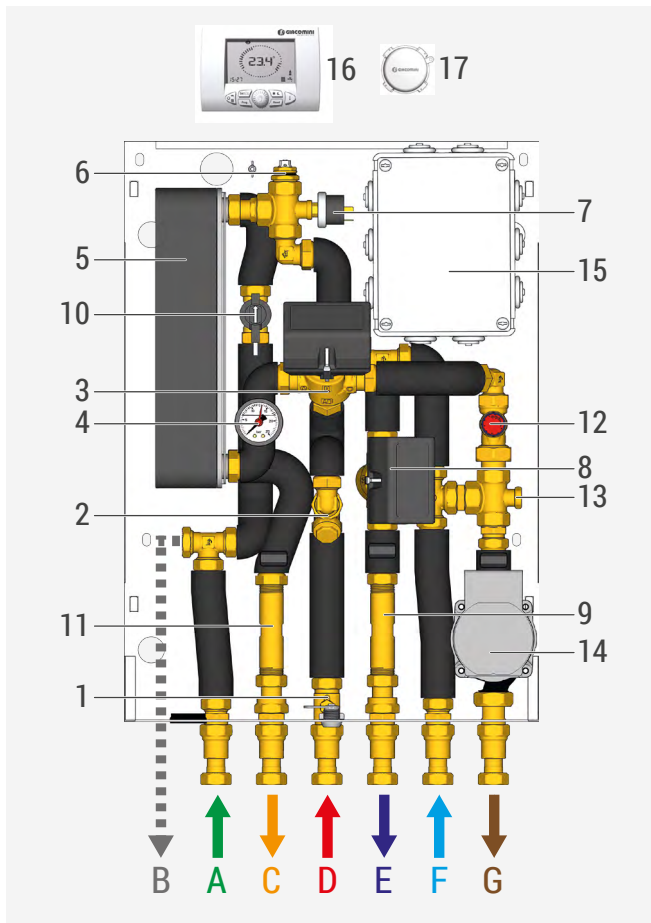
⚠ **WARNING.** Max. working differential pressure for the primary circuit = 4 bar (priority valve)

⚠ **WARNING.** The satellite can be used in closed boiler rooms for operation with non-aggressive fluids (water, glycol-based water in compliance with VDI 2035/ÖNORM 5195).

➤ Caratteristiche principali

- G 3/4" F connections with adjustable tail pieces.
- Electronic thermoregulation with Set-point, to manage the DHW temperature and heating temperature.
- Remote control with chronothermostat function to manage the parameter (for single zone), with display.
- Multizone additional control by the free contact on the electronic board (additional thermostats to be ordered separately).
- External temperature probe for climatic compensation.
- Heat exchanger for instantaneous production of domestic hot water.
- Flow switch for priority of domestic hot water production.
- Motorizable 2-way zone valve, for thermal and electrical safety on the heating circuit.
- Motorized 3-way priority valve on the delivery of the primary circuit.
- Motorized 2-way modulating valve on the return of the primary circuit.
- Filter and manual air vent valve on the primary circuit.
- Safety pressure switch for low pressure on the primary circuit.
- Self-modulating circulator 15/6, centre distance 130 mm, complying with ErP directive (2009/125/CE).
- Heat exchanger and fully insulated piping.
- WRAS certified components for the domestic water circuit.
- Painted sheet metal cabinet (RAL9010), with key locking.

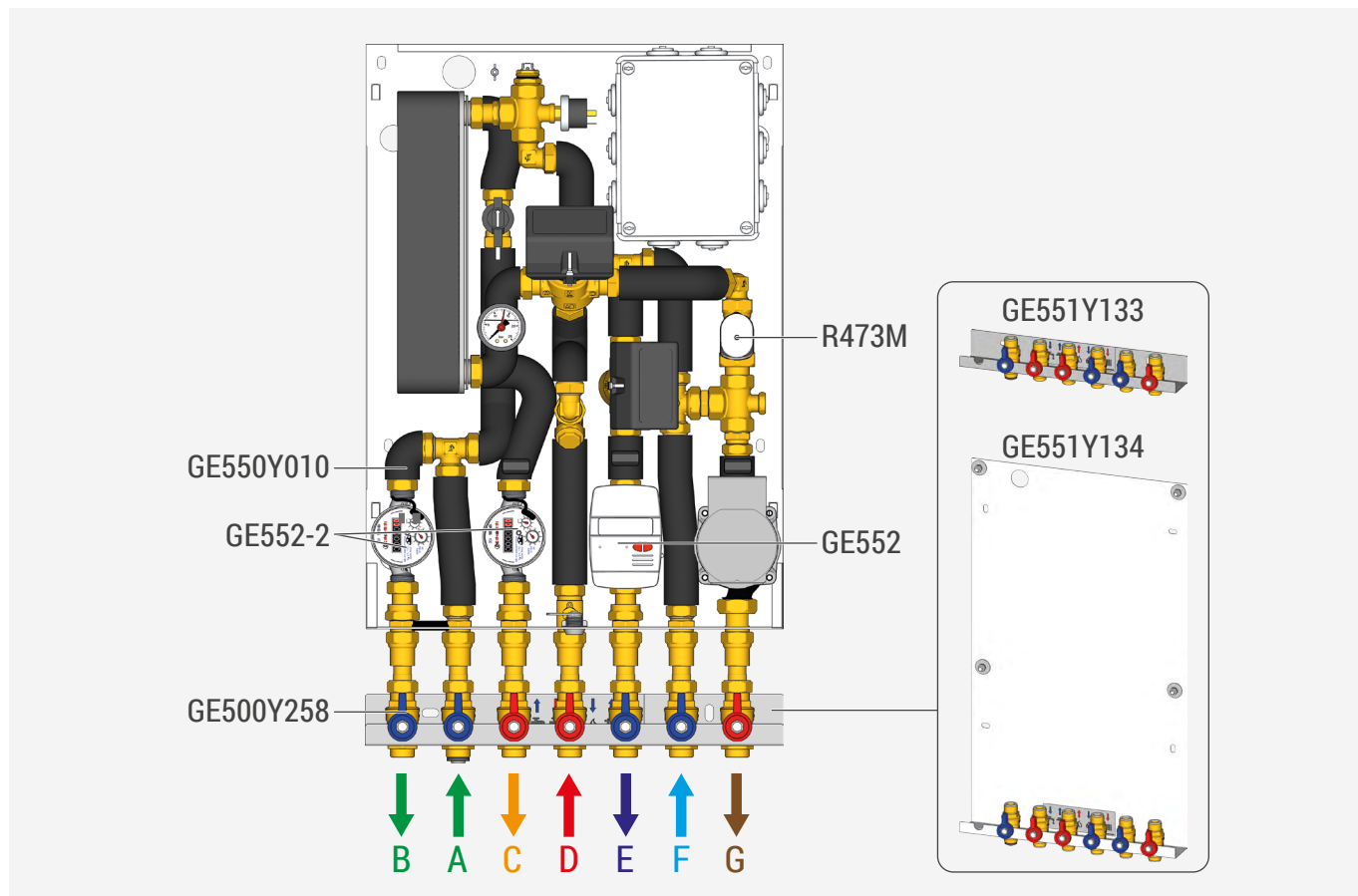
Components



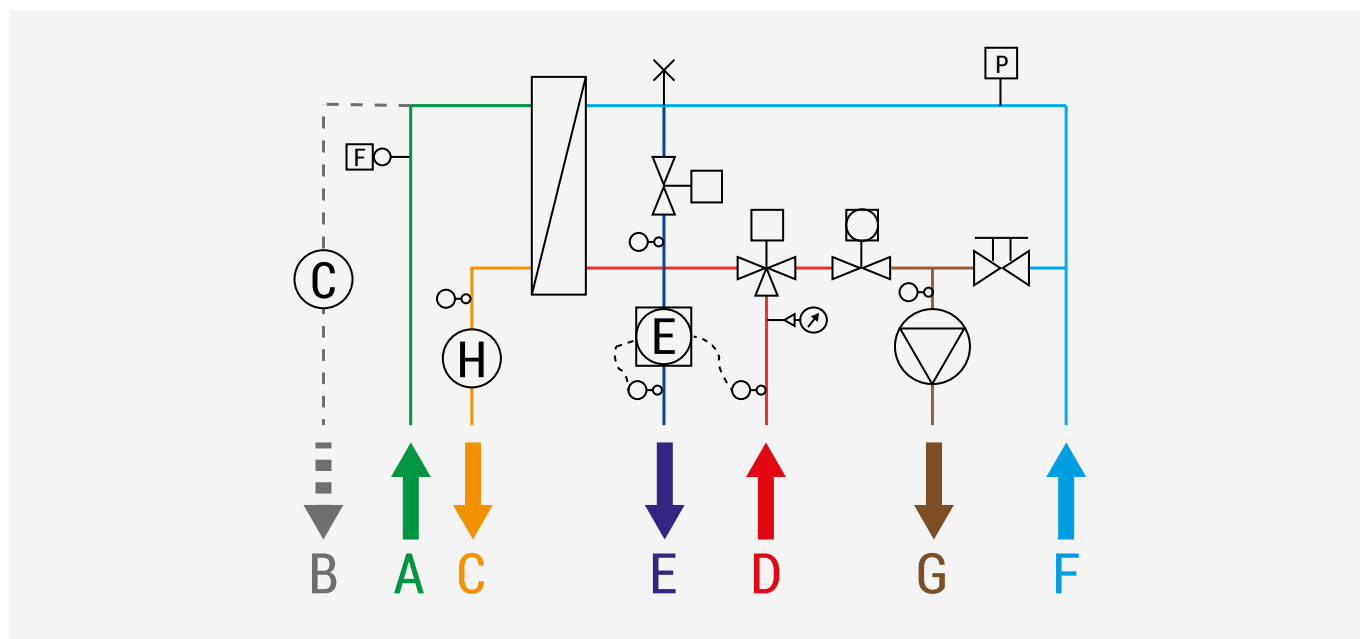
PRIMARY CIRCUIT	1	Housing for energy meter temperature probe
	2	Filter
	3	Motorized 3-way priority valve, for DHW function
	4	Pressure gauge 25 bar
	5	Heat exchanger for the domestic hot water function
	6	Manual air vent valve
	7	Minimum pressure switch
	8	Motorized two-way modulating valve
	9	Brass spacer for thermal energy meters
DHW PRODUCTION	10	Flow switch
	11	Brass spacer for water meters
HEATING	12	2-way zone valve for thermal and electrical safety (motorizable with optional R473M thermo-electric actuator)
	13	By-pass lockshield
	14	Circulator
OTHER COMPONENTS	15	Cabinet with electronic regulation unit
	16	Remote control / chronothermostat with display
	17	External temperature probe
HYDRAULIC CONNECTIONS	A	Domestic cold water inlet
	B	Domestic cold water outlet (optional)
	C	Domestic hot water outlet
	D	Primary inlet
	E	Primary outlet
	F	Heating return
	G	Heating delivery

Completion codes

- GE552: thermal energy meter. The meter temperature probe must be installed in the special housing (Components - Ref. 1).
- GE552-2: domestic water meters
- GE550Y010: optional additional unit output for domestic cold water outlet
- GE551Y133: template with shut-off valves and 3/4" M system connections
- GE551Y134: raised template with shut-off valves and 3/4" M system connections
- GE500Y258: additional shut-off valve to be installed on the template when present the GE550Y010 unit output
- R473M: thermo-electro actuator for 2-way zone valve for thermal safety on the heating circuit



Operation



Motorized 3-way priority valve



Motorized 2-way modulating valve



Motorizable 2-way zone valve



By-pass lockshield



Manual air vent valve



Circulator



Heat exchanger



Pressure gauge



Minimum pressure switch



Temperature probe



Flow switch



Brass spacer for thermal energy meter



Brass spacer for domestic hot water



Brass spacer for domestic cold water

A Domestic cold water inlet

B Domestic cold water outlet (optional)

C Domestic hot water outlet

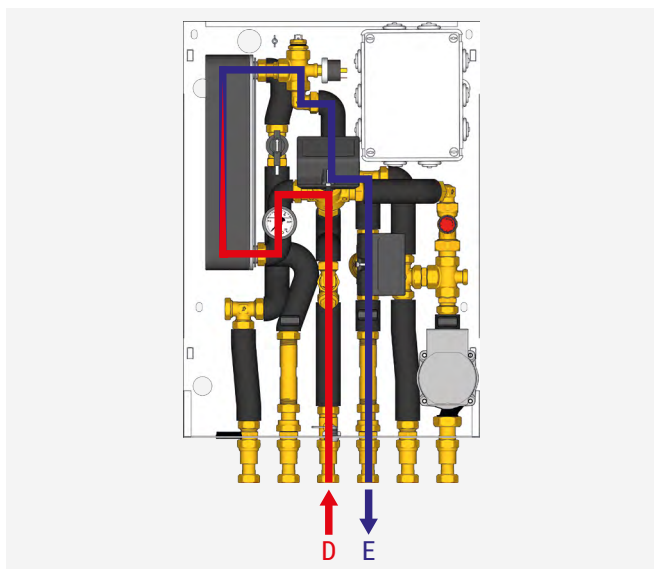
D Primary inlet

E Primary outlet

F Heating return

G Heating delivery

Primary circuit



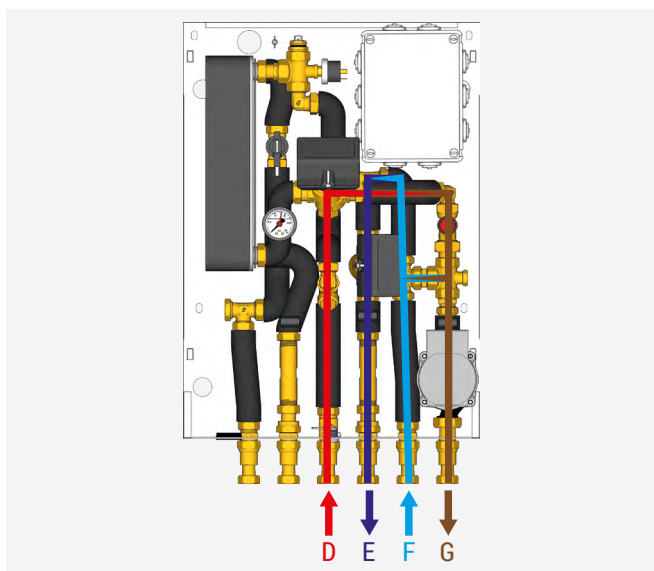
Inlet (D) and return (E). The primary circuit is composed of a Y-filter, a motorized 3-way priority valve, a manual air vent valve, a heat exchanger, a manometer, a minimum pressure switch and a motorized 2-way modulating valve.

Energy Saving function: the 2-way modulating valve controlled by the electronic management of the HIU, restricts the flow demand from the primary to the minimum necessary to obtain the preset Set-Point temperature.

The priority valve diverts the flow in the heat exchanger (if there is a request of DHW: DHW flow switch enabled) or in the heating system.

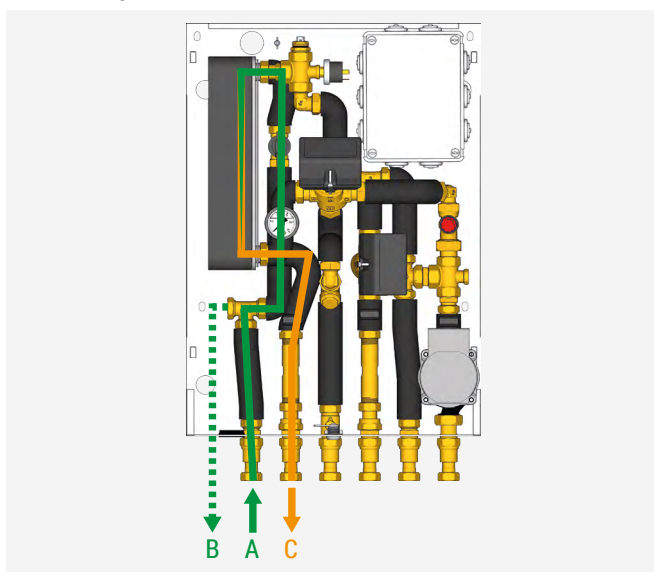
The thermal energy meter can be installed in place of the brass spacer, fitting its temperature probe in the relative housing (Components - Ref. 1).

Secondary circuit: heating



Delivery (G) and return (F). The heating circuit is composed of a motorized 2-way zone valve with thermal safety function (the valve stops the flow in the system in the event the delivery temperature exceeds 5 °C, the temperature set on the remote control - Set Point), an adjustable bypass lockshield and a high-efficiency circulator (ErP 2009/125/EC).

Secondary circuit: DHW







Cold water inlet (A), hot water outlet (C) and cold water outlet (B - optional). The DHW circuit is comprised of a flow switch and a brass spacer for the introduction of the water meter. A hot water meter can be installed instead of the brass spacer.


➤ Settings of the remote control/chronothermostat



Operation in mode: OFF, SUMMER, WINTER, HEATING ONLY























The selection of the operating mode is done by repeatedly pressing the button .


- **Off:** "OFF" and the current time are shown on the display. Only the antifreeze function (if set) is enabled in this mode. Any request for the DHW or heating mode operation is ignored.
- **Summer:** the measured room temperature, the current time and the icon are displayed . The DHW, if set, and the antifreeze function are enabled in this mode. Any request for the heating mode operation is ignored.
- **Winter:** the display shows the measured room temperature, the time and the current day, the icons   and the program set for the current day. All DHW, heating and, if set, antifreeze functions are enabled in this mode.
- **Heating only:** the display shows the measured room temperature, the time and the current day, the icon  and the program set for the current day. All heating and, if set, antifreeze functions are enabled in this mode. Any request for the DHW mode operation is ignored.

Impostazione orologio e temperature

Depending on the operating mode selected (OFF / SUMMER / WINTER / HEATING ONLY) by pressing the button , the clock and the temperature of the boiler can be set.

The value is displayed for a time equal to the display settings time delay and is identified by its flashing icon. Press key  to pass to the next value and turn the knob  to modify the value.

- **Clock:** press key  until the icon  and the time value start to flash. Turn the knob  to select the desired time. Press the knob  to pass to the minutes. The minutes start flashing: turn the knob  to select the desired minutes. Press the knob  to pass to the day of the week. The days of the week start flashing: turn the knob  to select the desired day. Press the knob  to confirm the value entered.
- **Day Set point:** press key  until the icon  and the day set point value start to flash. Turn the knob  to select the desired value.
- **Night Set point:** press key  until the icon  and the night set point value start to flash. Turn the knob  to select the desired value.
- **Heating Set point:** press key  until the icon  and the heating set point value start to flash. Turn the knob  to select the desired value.
- **DHW Set point:** press key  until the icon  and the DHW set point value start to flash. Turn the knob  to select the desired value.
- **Kd:** this setting is only available if the remote control is configured as the modulator with the use of the external probe (P04 = 2 or 3). Press key  until the icon **kd** and the relative value start to flash. Turn the knob  to select the desired value.

 **NOTE.** For the other operating modes of the remote control, refer to the corresponding instruction sheet.

Preheating Function

The preheating function has the purpose of keeping the domestic water heat exchanger hot so as to shorten the initial adjustment time required to reach the setpoint temperature, thus providing greater comfort.

The function can be enabled/disabled by setting the t12 parameter via remote control.

When enabled, during the stand-by stage in SUMMER or WINTER mode, the function continuously monitors the domestic water probe and when the corresponding temperature falls below the DHW setpoint differential threshold of -8 °C, a domestic water cycle is forced on with power supplied at 30% until the DHW temperature reaches the adjustment value of the function corresponding to the DHW setpoint -2 °C. There is a time limit of 2 minutes for the function to reach this value.

If the DHW temperature fails to reach the setpoint threshold value after this time, the function is interrupted and inhibited for a period of 30 minutes.

▲ WARNING. When the DHW preheating function is enabled, plan to install a compensation device (e.g., expansion vessel/water hammer damper).

Screed Heating Function

The screed heating function facilitates the installation of low-temperature floor systems.

It is supported in the WINTER and HEAT ONLY operating modes.

The function is enabled/disabled by setting the t13 parameter via remote control.

Once activated, it forces a request for operation in heating mode at a setpoint established by the t14 parameter, for a fixed time interval of 72 hours.


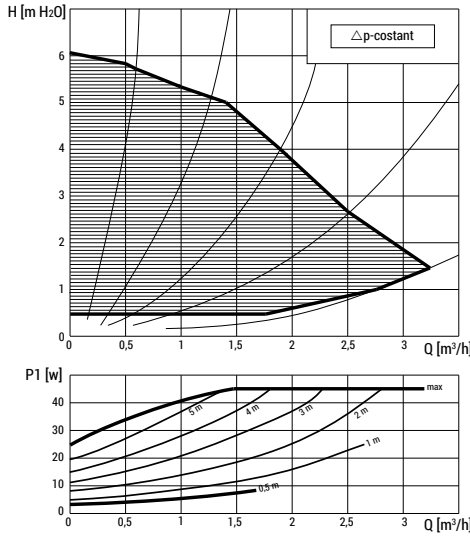



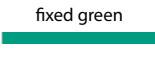

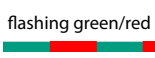
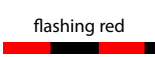

Subsequently, a new setpoint will be forcibly set with the value defined by the t15 parameter, for a time interval corresponding to the value established by the t16 parameter, expressed in days.

Remote control Function

PARAMETER	RANGE	DESCRIPTION	DEFAULT CONFIGURATION	SETTINGS
t00	0/1	Heat exchanger configuration	0	0=single, 1=double
t01	0/1	Heating range	1	0=standard, 1=reduced
t02	0/1	dr. group configuration	0	0=combined, 1=domestic water only
t03	0/120	Mixing valve time	12	seconds
t04	0/30	KD for OTC	30	
t05	0/1	Enabling of H2O pressure switch	1	0=enabled, 1=disabled
t06	0/240	CH anticycle timing	30	seconds
t07	0/1	OVT type DHW	0	0=fixed, 1=correlated to the Setpoint
t08	0/1	OVT type CH	0	0=fixed, 1=correlated to the Setpoint
t09	0/1	Enabling safety valve	1	Screed heating timing final phase
t10	0/60	DHW rq probe configuration	0	0=contact, 1=fluxmeter
t11	0/1	Disabling TA remotely	0	Screed heating timing final phase
t12	0/1	Enabling preheating	0	0=disabled, 1=enabled
t13	0/1	Enabling screed heating	0	0=disabled, 1=enabled
t14	25/34	Screed heating starting temperature 72 hours	25	°C
t15	35/45	Screed heating ending temperature	45	°C
t16	4/10	Screed heating timing final phase	4	days

NOTE. To enable parameter programming, please refer to the remote-control manual.

➤ Circulator features

Self-modulating circulator 15/6 (230 V)	Operation	
<div style="text-align: right; margin-bottom: 10px;">  <small>APPLIES TO EUROPEAN DIRECTIVE FOR ENERGY RELATED PRODUCTS</small> </div> 		Automatic operation with constant pressure (recommended).
		Automatic operation with variable pressure.
		Automatic operation for air purging (lasting 10 minutes): the circulator increases and reduces the speed to aggregate the air bubbles and aid their elimination via the air vent valve (not included with the circulator).
	LED - Errors	
		Normal operation.
	Automatic operation for air purging.	
	Temporary anomalous situation: 1) incorrect voltage. 2) incorrect fluid/ambient temperature	
	Circulator idle (permanent error: the circulator must be manually reset). It may be necessary to replace the circulator.	
	No electricity supply: 1) circulator not powered: check the cable connection. 2) LED damaged: check whether the circulator is working. 3) electronics damaged: replace the circulator	

Circulator characteristics

Electrical connections

▲ WARNING. Work on electrical components must be carried out by qualified personnel. Make sure that the power supply is disconnected when making connections.

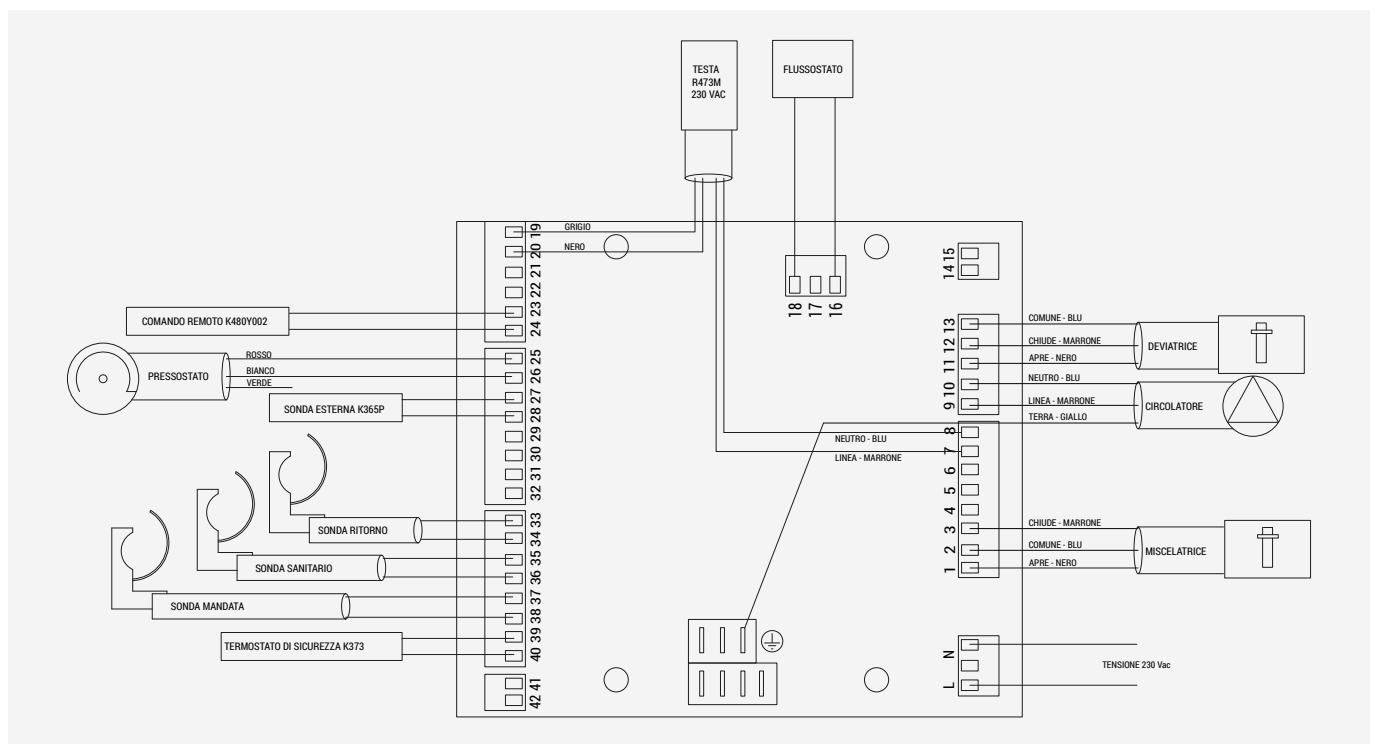
Electric technical data

- Electronic board power supply: 230 V
- Supply voltage frequency: 50±60 Hz
- Room operating temperature: -20÷60 °C
- Room storage temperature: -20÷80 °C
- Humidity: max 90 % @ 40° C non-condensing
- Maximum absorption: 7 VA
- Maximum length of external probe cable: 30 m
- Maximum length of remote control cable: 30 m

M-Bus

To connect the M-Bus data transfer cable to the concentrator, refer to the datasheet of the thermal energy meter used.

Electronic board



- The HIU is powered electrically by connecting the 230 V mains supply to the three-pin terminal board M1 of the electronic board.
- The remote control /chronothermostat (K480Y002) is connected to terminals 23-24 of the electronic board.
- The external temperature probe (K365PY002) is connected to terminals 27-28 of the electronic board.
- The optional safety thermostat (K373/K373I), is connected to terminals 39-40 of the electronic board.
- Multizone additional control to terminals 21-22 on the electronic board (additional thermostats to be ordered separately).

➤ Protection and safety systems

It is important that the HIUs are accessed only by skilled personnel authorised by the building administrator: the box is locked. As optional is possible to install a K373/K373I safety thermostat to prevent the high temperature on the heating circuit.

⚠ WARNING. Risk of burns and electric shock. The HIU must only be accessed by skilled personnel, authorised by the building administrator.

➤ Installation, checks and maintenance

🔗 IMPORTANT WARNING. Vibrations during transport may loosen the connections. Check all flat-seat connections before start up and tighten if necessary.

⚠ WARNING. Risk of burns and electric shocks.

Installation must be carried out by qualified operators authorized by the building manager.

Refer to specific standards for use (installation, fixing, etc...), operation, recalibration and replacement of meters.

Also refer to the assembly instructions provided with each meter.

⚠ WARNING. Flush all pipes before installing the HIU on the template.

⚠ WARNING. Unused connections and ball valves must be closed with a cap.

⚠ WARNING. Upon installation, also include a filling circuit for the secondary system.

Heating circuit pressure

Periodically check the pressure value of heating circuit through the pressure gauge: it must be kept above 1 bar (pressure values lower than 1 bar may damage the circulator by cavitation).

A pressure switch set on 0,8 bar is included to protect the circulator.

Provide a filling system for the heating circuit, that is a connection with a proper disconnecter between the domestic water and the heating circuits. Attention: Risk of burns.

⚠ WARNING. The HIU turns off automatically and the remote display shows the error E71 when the pressure is lower than 0,8 bar.

Fill up the system to turn the HIU back on.

Wall mounting of template

Mount the template on the wall using screw anchors fit for the type of wall and weight of the equipment, leaving a distance of at least 1000 mm between the template base and the ceiling.

The HIU can be installed at any height on the wall, however we recommend leaving a 1500 mm min. distance between the floor and the HIU cover base. Install the ball valves in the template holes and fit them with the special washers using a wrench.

Connect the system pipes to the template hydraulic connections.

Refer to the template label for proper installation of the pipes.

Installation of the HIU on template

For an easier installation, the HIU includes 3/4" F flat seat nuts with adjustable tail pieces (10 mm extension).

Before fitting the HIU on the template, extend every single adjustable tail piece up to its max. length.

Using a hard surface as reference, press all the adjustable tail pieces (previously extended to their max. length) at the same time to align them.

For installation with the GE551Y134 template, use the tie-rods on the template.

For installation with the GE551Y133 template, the user must measure the distance between the flat seat of the tail pieces and the fitting slots of the HIU and mark it on the wall, considering the position of the template ball valve flat seat and the thickness of the gasket.

Drill the wall in the positions previously measured.

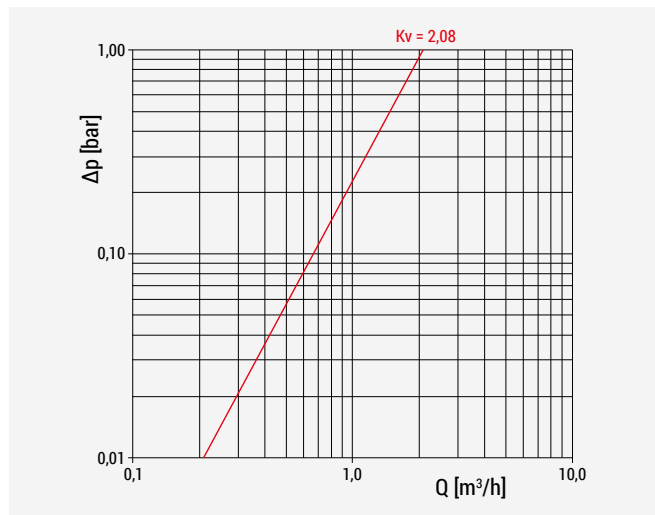
Use screw anchors fit for the type of wall and weight of the equipment.

First insert the gaskets on the template and tighten gently by hand.

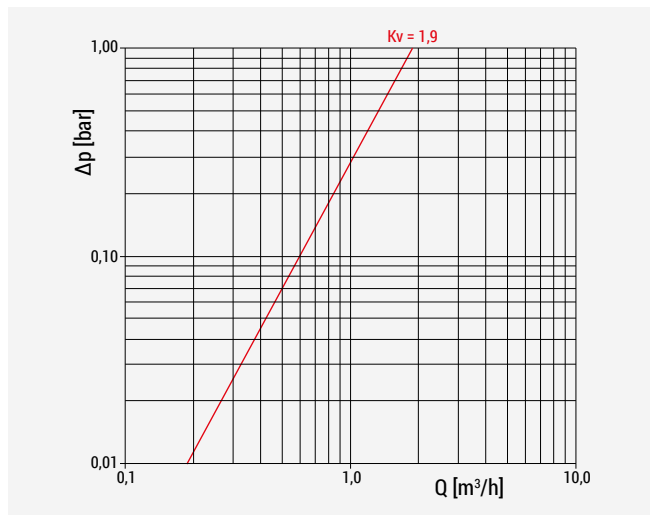
Complete the installation by tightening the HIU nuts on the template connections (max. torque 60 Nm) using a backup spanner.

GE556Y403 operating data

Primary circuit



Primary circuit for DHW production, modulating valve fully open



Primary circuit for heating, modulating valve and lockshield fully open

Secondary circuit for heating

LOW TEMPERATURE HEATING (Δt 35-30 °C)			PRIMARY CIRCUIT WORKING CONDITIONS		
CIRCULATOR SPEED	FLOW RATE [l/h]	POWER [kW]	T INLET [°C]	FLOW RATE [l/h]	T OUTLET [°C]
MAX.	1500	8,8	75	170	30
			70	190	30
			65	215	30
			60	250	30

LOW TEMPERATURE HEATING (Δt 45-40 °C)			PRIMARY CIRCUIT WORKING CONDITIONS		
CIRCULATOR SPEED	FLOW RATE [l/h]	POWER [kW]	T INLET [°C]	FLOW RATE [l/h]	T OUTLET [°C]
MAX.	1500	8,8	75	215	40
			70	250	40
			65	300	40
			60	375	40

HIGH TEMPERATURE HEATING (Δt 60-45 °C)			PRIMARY CIRCUIT WORKING CONDITIONS		
CIRCULATOR SPEED	FLOW RATE [l/h]	POWER [kW]	T INLET [°C]	FLOW RATE [l/h]	T OUTLET [°C]
MAX.	1500	26,3	75	750	45
			70	900	45
			65	1130	45
MAX.	1200	21	60	1200	45

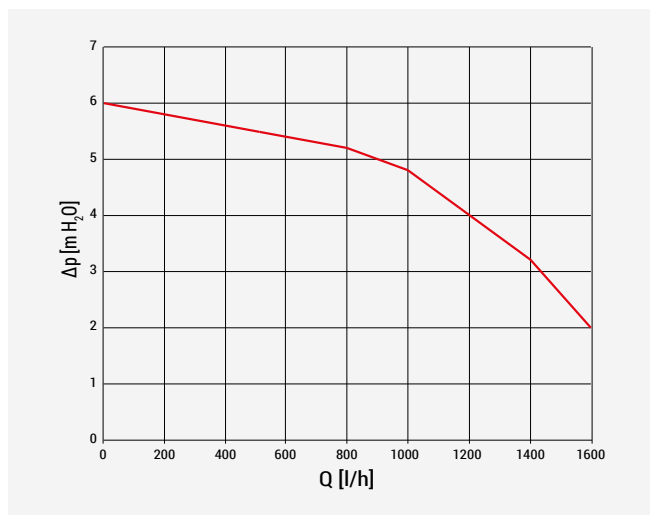
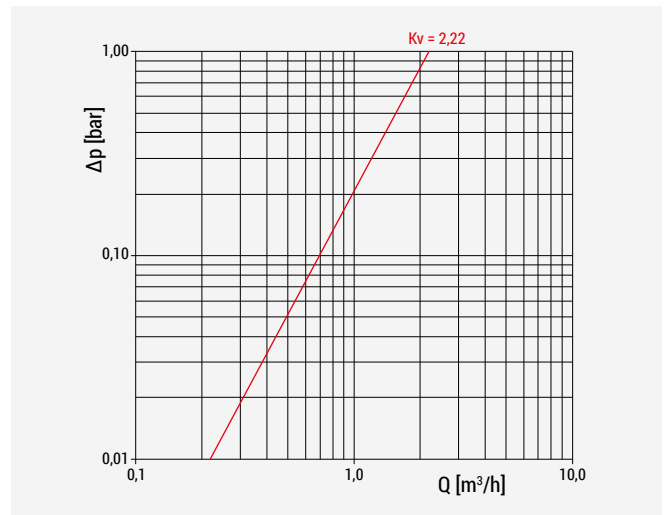


Diagram of the heating circulator - Circulator at constant Δp

HIGH TEMPERATURE HEATING (Δt 70-55 °C)			PRIMARY CIRCUIT WORKING CONDITIONS		
CIRCULATOR SPEED	FLOW RATE [l/h]	POWER [kW]	T INLET [°C]	FLOW RATE [l/h]	T OUTLET [°C]
MAX.	1200	21	75	900	55
			70	1200	55

Secondary circuit for DHW production

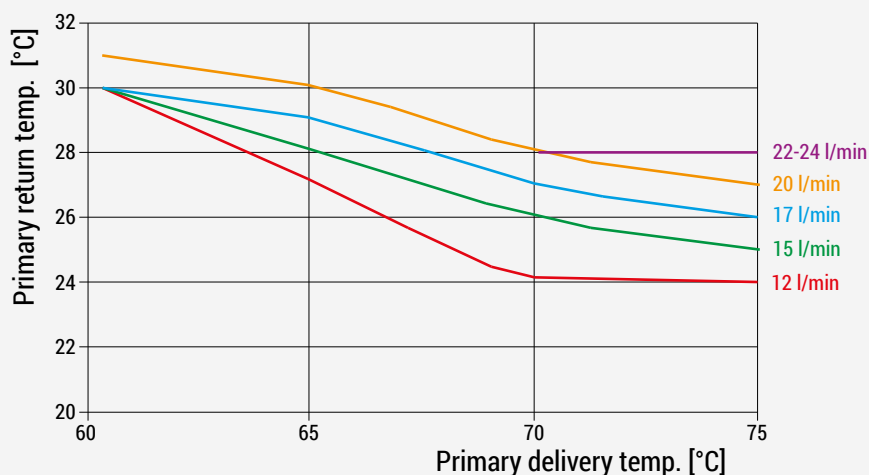
DHW PRODUCTION (Δt 10-50 °C)			PRIMARY CIRCUIT WORKING CONDITIONS		
FLOW RATE [l/min]	FLOW RATE [l/h]	POWER [kW]	T INLET [°C]	FLOW RATE [l/h]	T OUTLET [°C]
12	720	33	75	495	24
			70	550	24
			65	665	27
			60	850	30
15	900	42	75	630	25
			70	720	26
			65	850	28
			60	1050	30
17	1020	47,5	75	730	26
			70	830	27
			65	1000	29
			60	1200	30
20	1200	56	75	875	27
			70	1000	28
			65	1200	30
			60	1450	31
22	1320	54	75	980	28
			70	1100	28
24	1440	58,8	75	1070	28
			70	1200	28



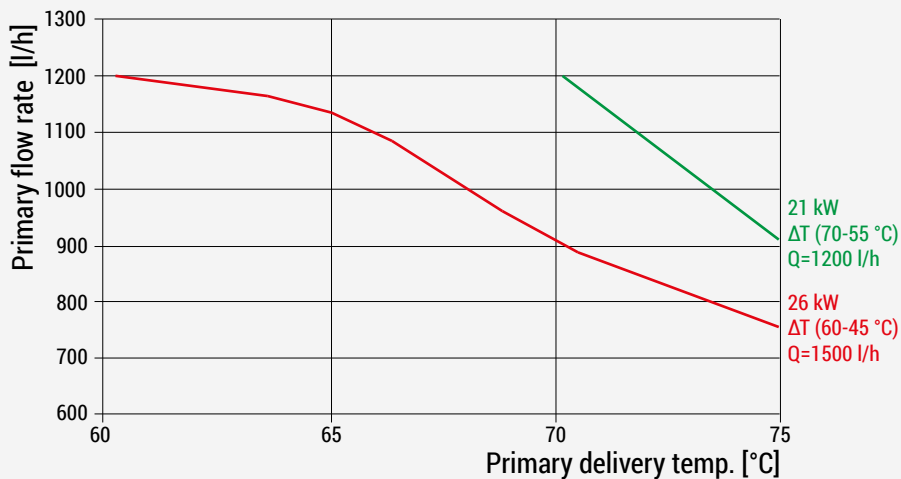
Hydraulic data for domestic water circuit

GE556Y403 energy saving features

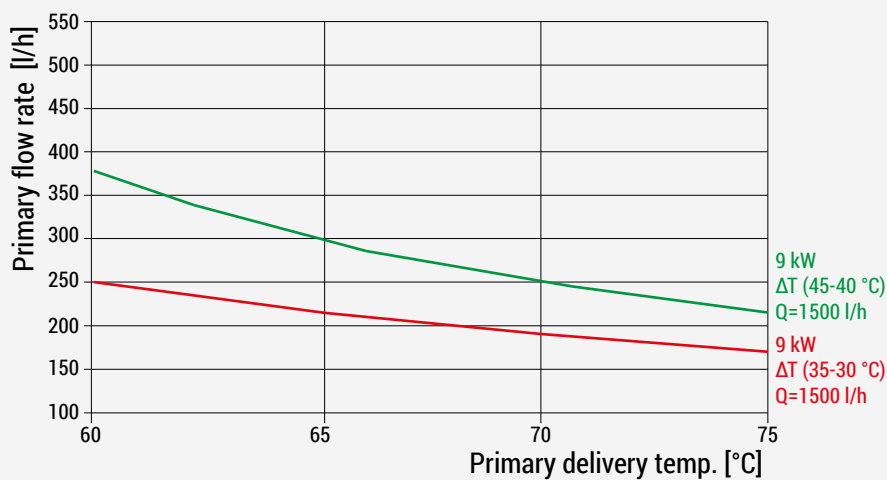
Low return temperatures of the primary in DHW operation



Reduced flow rates requests to the primary, in heating operation



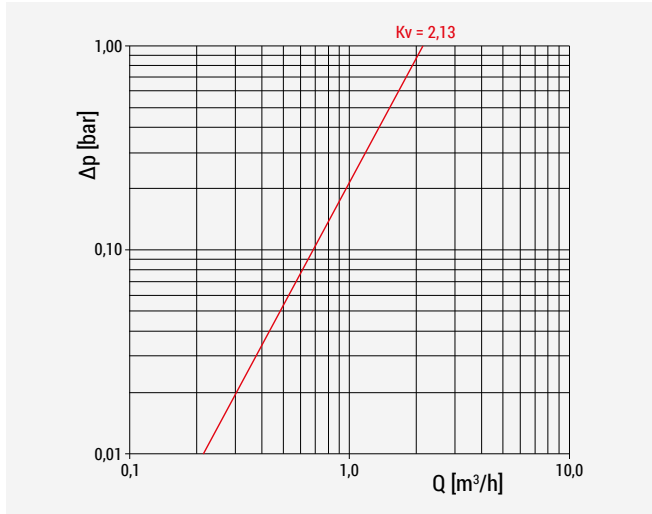
High temperature



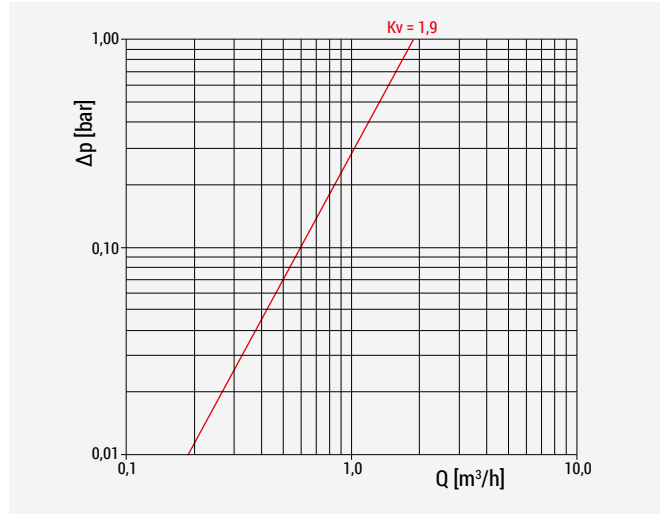
Low temperature

GE556Y406 operating data

Primary circuit



Primary circuit for DHW production, modulating valve fully open



Primary circuit for heating, modulating valve and lockshield fully open

Secondary circuit for heating

LOW TEMPERATURE HEATING (Δt 35-30 °C)			PRIMARY CIRCUIT WORKING CONDITIONS		
CIRCULATOR SPEED	FLOW RATE [l/h]	POWER [kW]	T INLET [°C]	FLOW RATE [l/h]	T OUTLET [°C]
MAX.	1500	8,8	75	170	30
			70	190	30
			65	215	30
			60	250	30

LOW TEMPERATURE HEATING (Δt 45-40 °C)			PRIMARY CIRCUIT WORKING CONDITIONS		
CIRCULATOR SPEED	FLOW RATE [l/h]	POWER [kW]	T INLET [°C]	FLOW RATE [l/h]	T OUTLET [°C]
MAX.	1500	8,8	75	215	40
			70	250	40
			65	300	40
			60	375	40

HIGH TEMPERATURE HEATING (Δt 60-45 °C)			PRIMARY CIRCUIT WORKING CONDITIONS		
CIRCULATOR SPEED	FLOW RATE [l/h]	POWER [kW]	T INLET [°C]	FLOW RATE [l/h]	T OUTLET [°C]
MAX.	1500	26,3	75	750	45
			70	900	45
			65	1130	45
MAX.	1200	21	60	1200	45

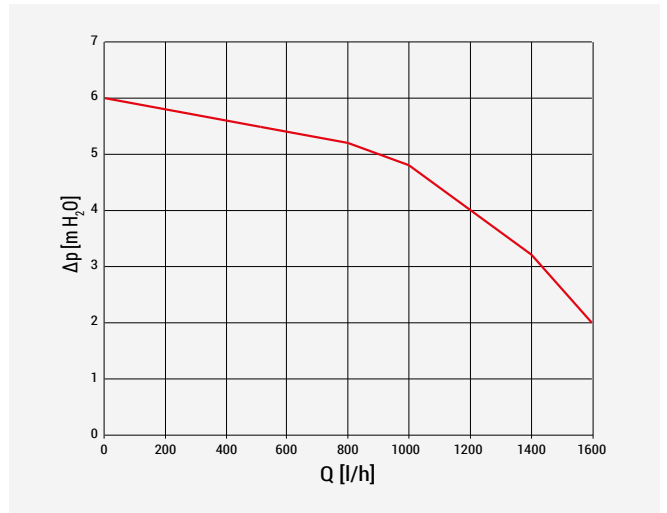


Diagram of the heating circulator - Circulator at constant Δp

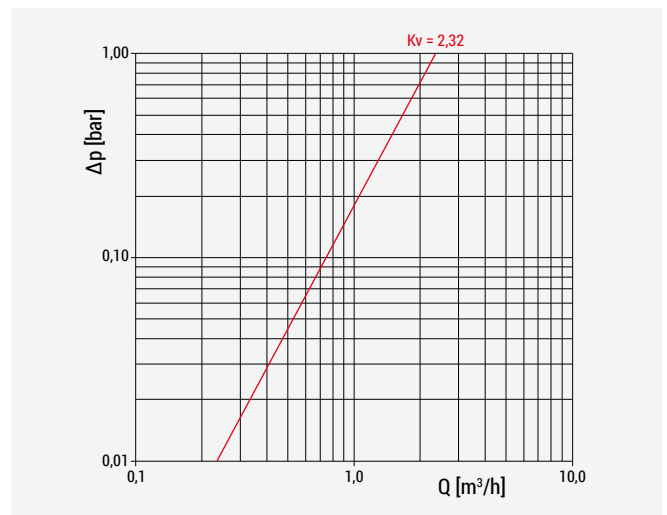
HIGH TEMPERATURE HEATING (Δt 70-55 °C)			PRIMARY CIRCUIT WORKING CONDITIONS		
CIRCULATOR SPEED	FLOW RATE [l/h]	POWER [kW]	T INLET [°C]	FLOW RATE [l/h]	T OUTLET [°C]
MAX.	1200	21	75	900	55
			70	1200	55



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Secondary circuit for DHW production

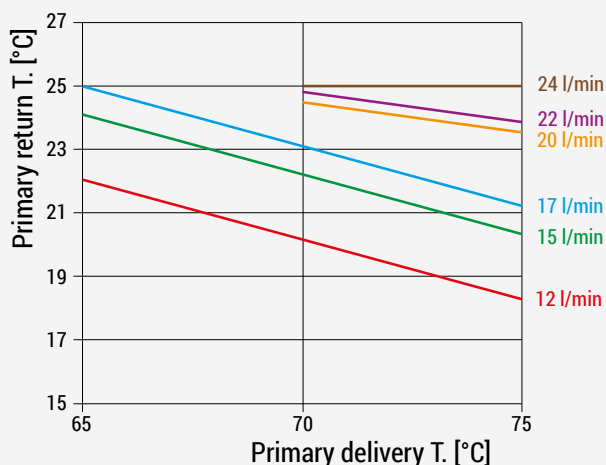
DHW PRODUCTION (Δt 10-50 °C)			PRIMARY CIRCUIT WORKING CONDITIONS		
FLOW RATE [l/min]	FLOW RATE [l/h]	POWER [kW]	T INLET [°C]	FLOW RATE [l/h]	T OUTLET [°C]
12	720	33,5	75	510	18,5
			70	580	20
			65	670	22
15	900	42	75	660	20,5
			70	750	22
			65	880	24
17	1020	47,5	75	770	22
			70	880	23,5
			65	1020	25
20	1200	56	75	940	23,5
			70	1050	24,2
			75	1040	24
22	1320	61,5	70	1160	24,6
			75	1150	25
24	1440	67	70	1280	25
			75	1280	25



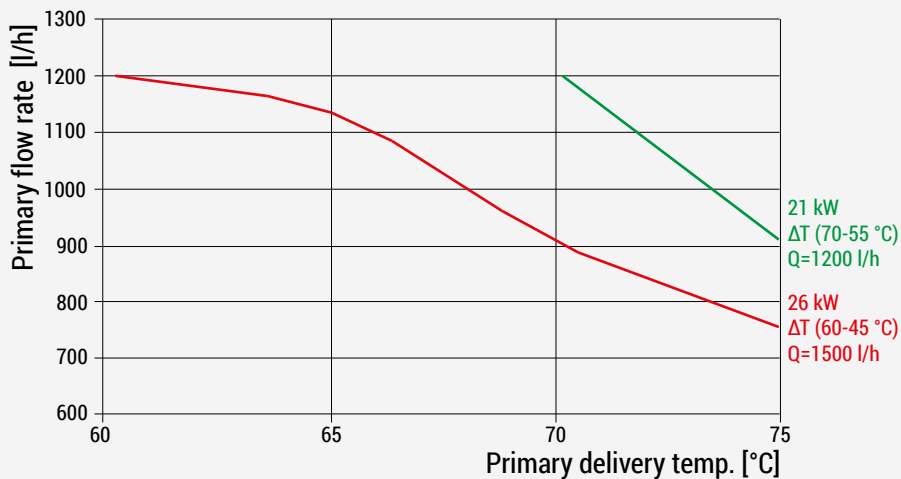
Hydraulic data for domestic water circuit

GE556Y406 energy saving features

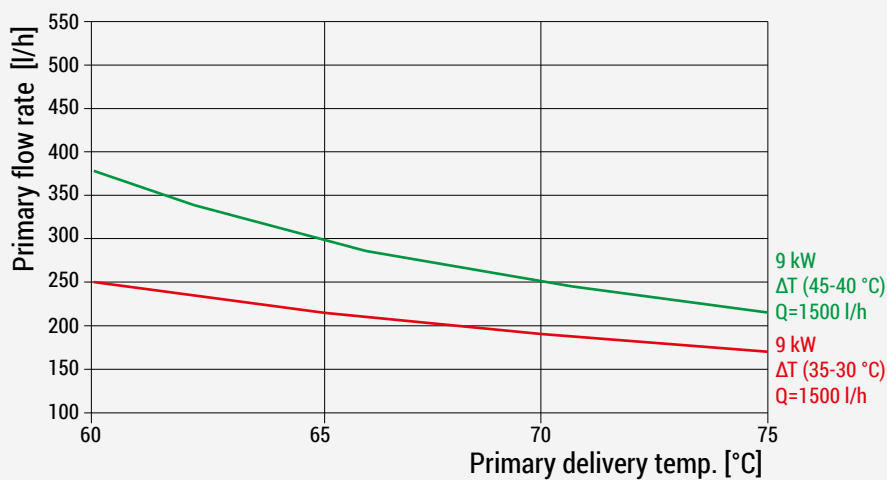
Low return temperatures of the primary in DHW operation



Reduced flow rates requests to the primary, in heating operation

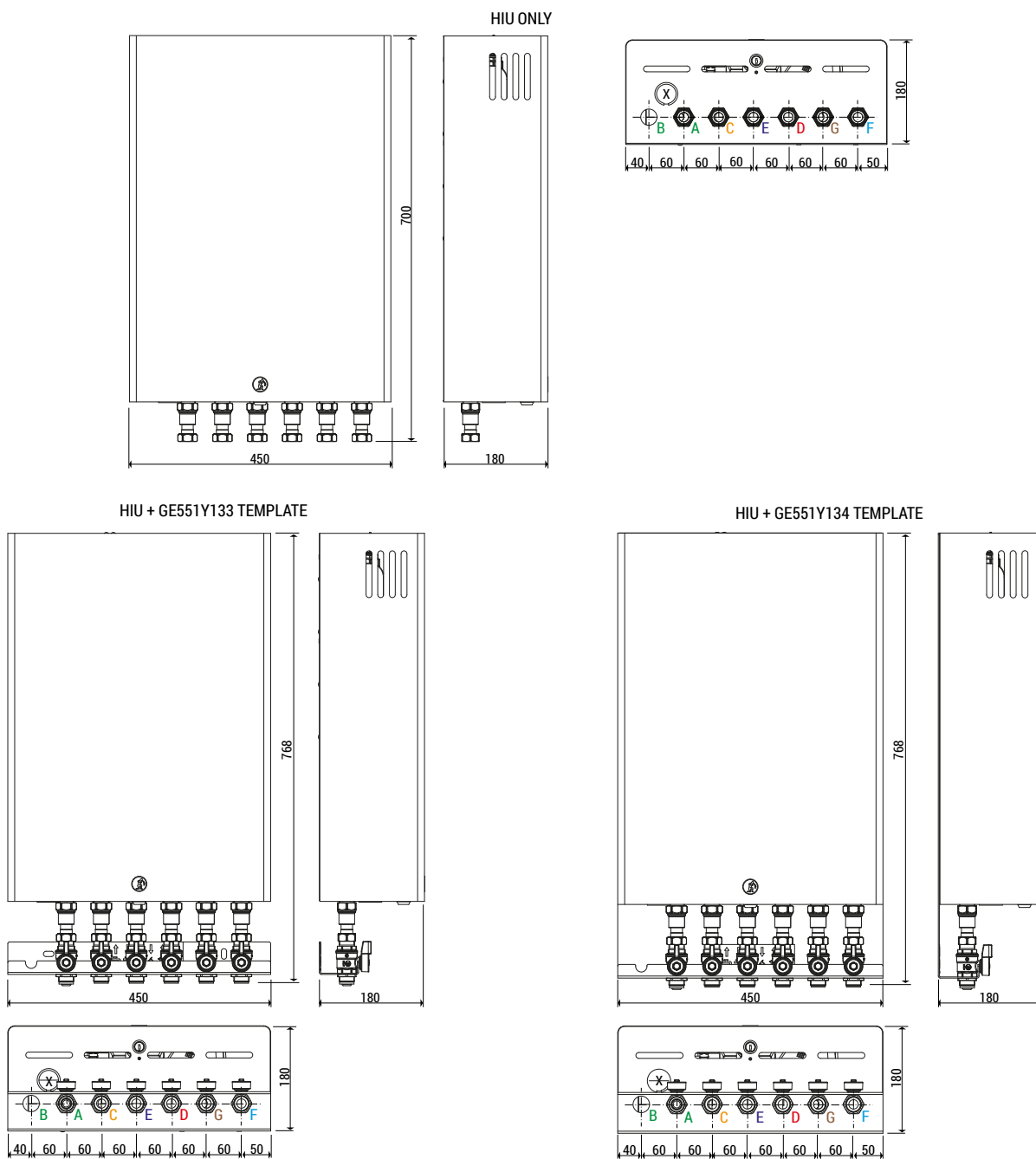


High temperature



Low temperature

Dimensions



A Domestic cold water inlet

B Domestic cold water outlet (optional)

C Domestic hot water outlet

D Primary inlet

E Primary outlet

F Heating return

G Heating delivery

X Fairleads

Dimensions in mm

➤ Reference Standards

- UNI EN 1434
- EN 60751
- EN 61107
- Measuring Instruments Directive 2014/32/UE (MID)
- ErP Directive 2009/125/CE

➤ WRAS certification

REF. IN "COMPONENTS" PARAGRAPH	COMPONENT	CERTIFICATE NUMBER
-	Gaskets	1509514
10	Flow switch	2111302
5	Heat exchanger	1909083

IT AVVERTENZE PER IL CORRETTO SMALTIMENTO DEL PRODOTTO

Questo prodotto rientra nel campo di applicazione della Direttiva 2012/19/UE riguardante la gestione dei rifiuti di apparecchiature elettriche ed elettroniche (RAEE).

L'apparecchio non deve essere eliminato con gli scarti domestici in quanto composto da diversi materiali che possono essere riciclati presso le strutture adeguate.

Informarsi attraverso l'autorità comunale per quanto riguarda l'ubicazione delle piattaforme ecologiche atte a ricevere il prodotto per lo smaltimento ed il suo successivo corretto riciclaggio.

Si ricorda, inoltre, che a fronte di acquisto di apparecchio equivalente, il distributore è tenuto al ritiro gratuito del prodotto da smaltire.

Il prodotto non è potenzialmente pericoloso per la salute umana e l'ambiente, ma se abbandonato nell'ambiente impatta negativamente sull'ecosistema.

Leggere attentamente le istruzioni prima di utilizzare l'apparecchio per la prima volta. Si raccomanda di non usare assolutamente il prodotto per un uso diverso da quello a cui è stato destinato, essendoci pericolo di shock elettrico se usato impropriamente.



Il simbolo del bidone barrato, presente sull'etichetta posta sull'apparecchio, indica la rispondenza di tale prodotto alla normativa relativa ai rifiuti di apparecchiature elettriche ed elettroniche. L'abbandono nell'ambiente dell'apparecchiatura o lo smaltimento abusivo della stessa sono puniti dalla legge.

EN IMPORTANT INFORMATION FOR CORRECT DISPOSAL OF THE PRODUCT

This product falls into the scope of the Directive 2012/19/EU concerning the management of Waste Electrical and Electronic Equipment (WEEE).

This product shall not be disposed in to the domestic waste as it is made of different materials that have to be recycled at the appropriate facilities.

Inquire through the municipal authority regarding the location of the ecological platforms to receive the product for disposal and its subsequent correct recycling.

Furthermore, upon purchase of an equivalent appliance, the distributor is obliged to collect the product for disposal free of charge.

The product is not potentially dangerous for human health and the environment, but if abandoned in the environment can have negative impact on the environment. Read carefully the instructions before using the product for the first time. It is recommended that you do not use the product for any purpose rather than those for which it was intended, there being a danger of electric shock if used improperly.



The crossed-out wheeled dustbin symbol, on the label on the product, indicates the compliance of this product with the regulations regarding Waste Electrical and Electronic Equipment. Abandonment in the environment or illegal disposal of the product is punishable by law.

FR AVERTISSEMENTS POUR L'ÉLIMINATION CORRECTE DU PRODUIT

Ce produit entre dans le champ d'application de la directive 2012/19 / UE relative à la gestion des déchets équipements électriques et électroniques (DEEE).

L'appareil ne doit pas être jeté avec les ordures ménagères car il est fait de différents matériaux pouvant être recyclés dans des centres appropriés.

Renseignez-vous auprès de l'autorité locale concernant l'emplacement des plates-formes écologiques appropriées pour recevoir le produit pour sa destruction et son recyclage correct ultérieur.

Il convient également de rappeler que, en cas d'achat d'un appareil équivalent, le distributeur est tenu de collecter le produit à détruire. Le produit n'est potentiellement pas dangereux pour la santé humaine et l'environnement, mais s'il est abandonné dans l'environnement, il a un impact négatif sur l'écosystème.

Lisez attentivement les instructions avant d'utiliser l'appareil pour la première fois.

Il est interdit d'utiliser le produit pour un usage différent de celui auquel il était destiné, il y a risque de choc électrique si utilisé incorrectement.



Le symbole de la poubelle barrée sur l'étiquette de l'appareil indique sa correspondance produit à la législation relative aux déchets d'équipements électriques et électroniques. L'abandon dans l'environnement de l'équipement ou l'élimination illégale de l'équipement est punissable par la loi.

DE WICHTIGE HINWEISE ZUR KORREKTEN ENTSORGUNG DES PRODUKTS

Dieses Produkt fällt in den Anwendungsbereich der Richtlinie 2012/19/EU über die Entsorgung von Elektro- und Elektronik-Altgeräten (WEEE).

Dieses Produkt darf nicht in den Hausmüll entsorgt werden, da es aus verschiedenen Materialien besteht, die in entsprechenden Einrichtungen recycelt werden müssen.

Erkundigen Sie sich bei ihrer Gemeinde nach dem Standort des nächsten Recyclinghofs bzw. der nächsten Annahmestelle, um das Produkt dem Recycling zuzuführen bzw. fachgerecht zu entsorgen.

Darüber hinaus ist der Händler verpflichtet, das Produkt beim Kauf eines gleichwertigen Geräts kostenlos zu entsorgen. Das Produkt ist für die menschliche Gesundheit und die Umwelt potenziell nicht gefährlich. Diese können sich aber, falls sie in der Umwelt gelangen, negativ auf diese auswirken. Lesen Sie daher vor dem ersten Gebrauch des Produkts die Inbetriebnahme-, Bedienungs- und Entsorgungsanweisungen sorgfältig durch. Es wird empfohlen, dass Sie das Produkt nur für den vorgesehenen Zweck verwenden.

Bei unsachgemäßer Verwendung bzw. Fehlgebrauch besteht die Gefahr eines elektrischen Schlags.



Das Symbol der durchgestrichenen Mülltonne auf dem Etikett des Produkts weist auf die Konformität dieses Produkts zu den Vorschriften für Elektro- und Elektronik-Altgeräte hin. Das Ablagern in der Umwelt oder die illegale Entsorgung des Produkts ist strafbar.

⚠ Safety Warning. Installation, commissioning and periodical maintenance of the product must be carried out by qualified operators in compliance with national regulations and/or local standards. A qualified installer must take all required measures, including use of Individual Protection Devices, for his and others' safety. An improper installation may damage people, animals or objects towards which Giacomini S.p.A. may not be held liable.

♻ Package Disposal. Carton boxes: paper recycling. Plastic bags and bubble wrap: plastic recycling.

ℹ Additional information. For more information, go to giacomini.com or contact our technical assistance service. This document provides only general indications. Giacomini S.p.A. may change at any time, without notice and for technical or commercial reasons, the items included herewith. The information included in this technical sheet do not exempt the user from strictly complying with the rules and good practice standards in force.

♻ Product Disposal. Do not dispose of product as municipal waste at the end of its life cycle. Dispose of product at a special recycling platform managed by local authorities or at retailers providing this type of service.