
GE556Y171

Description

GE556Y171 is a satellite for heating production; it is fed by means of hot water from centralised boiler plant (e.g. district heating).

Technical data

- Max. working temperature: 90 °C
- Max. working pressure: 16 bar

Versions and product codes

Product code	Type	Heat exchanger nominal power [kW]		Jig with valves
		Heating	SHW	
GE556Y171	Heating	17,4	-	GE551Y081 GE551Y083


Warning.

Maximum differential pressure for the primary side = 4 bar

- Maximum working pressure of the heating secondary circuit: 3 bar (safety valve setting)
- Nominal primary flow: 670 l/h @ 80 °C for 17,4 kW


Warning.

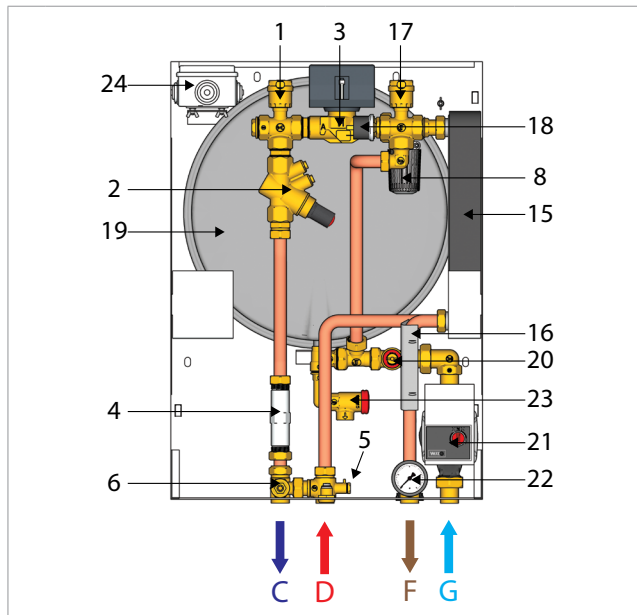
The satellite can be used in closed boiler rooms for operation with non-aggressive fluids (water, glycol-based water in compliance with VDI 2035/ÖNORM 5195).

Main features

- Painted (RAL9010) steel cabinet, for external installation, with key lock.
- Heat exchanger for the heating function.
- Heating handling with controlled temperature.
- Spacer for the meter.
- Expansion vessel, safety valve and high efficiency circulator (15/6), all comply with ErP Directive (2009/125/CE).
- Motorised zone valve for heating.
- 3/4" connections.
- Dynamic balancing valve, R206A series.



Components



Legend

1	Automatic air vent with hygroscopic gasket	PRIMARY
2	Dynamic balancing valve	
3	Motorised heating 2 way zone valve	
4	Spacer pipe for energy meter	
5	Temperature probe housing for energy meter	
6	Primary by-pass	
8	Thermostatic head R462L for temperature control of heating	HEATING
15	Heat exchanger, sanitary hot water function	
16	Sensor of thermostatic head R462L	
17	Automatic air vent with hygroscopic gasket	
18	Pressure switch	
19	Expansion vessel	
20	Ball valve for circulator maintenance	CONTROLS
21	High efficiency circulator	
22	Manometer	
23	Safety valve	
24	Electric box	

C: Primary outlet
D: Primary inlet

F: Heating delivery
G: Heating return

Optional components

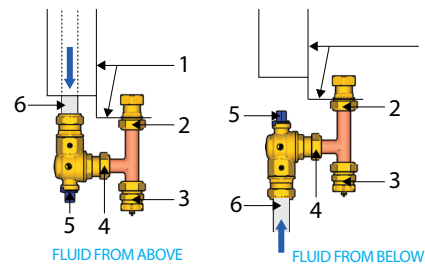
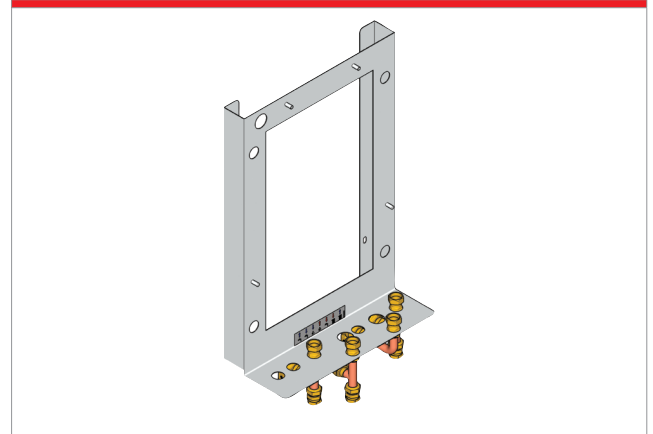
On each satellites, it is possible to install the following optional components:

- Thermal energy meter: GE552 series
The flow temperature sensor of energy meter has to be installed into the appropriate housing (Components - Ref. 5).
- Insulation in expanded PEx: product code GE551Y180
- Template with valves and 3/4" connections: code GE551Y081
- Template with valves, filters and Ø 22 mm connections: code GE551Y083

GE551Y081 - Template with 4 valves (connections from below)



GE551Y083 - Template with 4 valves (possibility of connections from above)



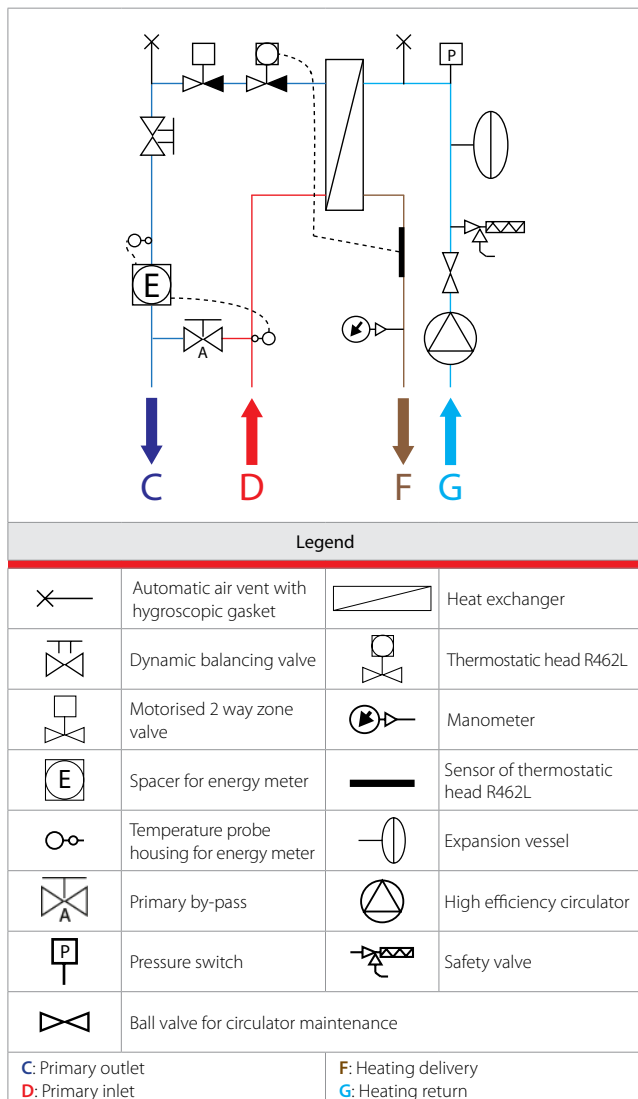
- 1) Metallic frame
- 2) Filter
- 3) Dirt-separator
- 4) Joint that allows the connection from above or from below
- 6) Ball valve
- 7) System pipes, Ø 22 mm



Warning.

The installation should be undertaken by suitably qualified and authorised personnel only. Observe the EU norms and regulations concerning the use (installation, fixing, etc.), the operation, the recalibration and the replacement the meters. Please refer to the assembly instructions supplied with any meter.

Operation



HEATING: delivery (F) and return (G).

The heating circuit is composed of the heat exchanger, a circulator, a ball valve, a pressure switch, an air vent valve, an expansion vessel, a safety valve and a manometer.

For the heating provide for a filling system, that is a connection from the sanitary to the heating, with an appropriate backflow preventer.

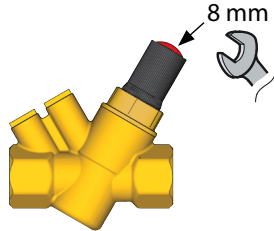
PRIMARY: inlet (D) and outlet (C).

The primary circuit is composed of an air vent valve, a dynamic balancing valve, a 2-way zone valve motorised, a brass spacer, an housing for installing the temperature probe of the energy meter, a by-pass valve and a thermostatic head to control the temperature.

In place of the brass spacer (Components - Ref. 4) a thermal energy meter can be mounted, by installing the temperature probe in the appropriate housing (Components - Ref. 5).

The zone valve can control the heating by means of a thermostat (to be ordered separately).

R206A dynamic balancing valve setting (Δp : 30-400 kPa)



l / sec	l / h	Setting
0.113	406	1.0
0.119	427	1.1
0.125	449	1.2
0.131	470	1.3
0.137	492	1.4
0.143	513	1.5
0.149	535	1.6
0.155	556	1.7
0.161	578	1.8
0.167	599	1.9
0.172	621	2.0
0.178	642	2.1
0.184	664	2.2
0.190	685	2.3
0.196	707	2.4
0.202	728	2.5
0.208	750	2.6
0.214	771	2.7
0.220	793	2.8
0.226	814	2.9
0.232	836	3.0
0.238	857	3.1
0.244	879	3.2
0.250	900	3.3
0.256	922	3.4
0.262	943	3.5
0.268	965	3.6
0.274	987	3.7
0.280	1010	3.8
0.286	1030	3.9
0.292	1050	4.0
0.298	1070	4.1
0.304	1090	4.2
0.310	1120	4.3
0.316	1140	4.4
0.322	1160	4.5
0.328	1180	4.6
0.334	1200	4.7
0.340	1220	4.8
0.346	1240	4.9
0.352	1270	5.0



Protection and safety systems


Warning.

Danger of burns and electric shocks. Access to the satellite should be by suitably qualified and authorised personnel only.

It is important that the access to the satellite is made only by suitably qualified and authorised personnel: the cabinets are provided with key locking.

Controls and maintenance

Heating circuit pressure

Periodically inspect the pressure of the heating circuit by using the manometer (Components - Ref. 22): the pressure value must be maintained over 1 bar (pressure values under 1 bar can damage the circulator by cavitation).

A pressure switch with 0,8 bar settings is provide to protect the circulator.


Warning.

Circulator stops if the pressure is below 0,8 bar due to the pressure switch device. Please, refill the system to restart the circulator.

Provide a filling system for the heating, that is a connection from the sanitary side to the heating with a backflow preventer. during filling be aware that the safety valve will activate at 3 bar (Components - Ref. 23). **Warning: danger of burns.** In order to eliminate the air in the heating circuit, use the air vent (Components - Ref. 1 and Ref. 17).

Safety valve

Periodically operate the manual handwheel of the safety valve (Components - Ref. 23). Be careful the discharge of water may be hot.

Warning: danger of burns.

Adjustments

Heating

Adjust the heating temperature using the thermostatic head (Components - Ref. 8):

Position	1	2	3	4	5
Temperature [°C]	23	34	45	56	67


Warning.

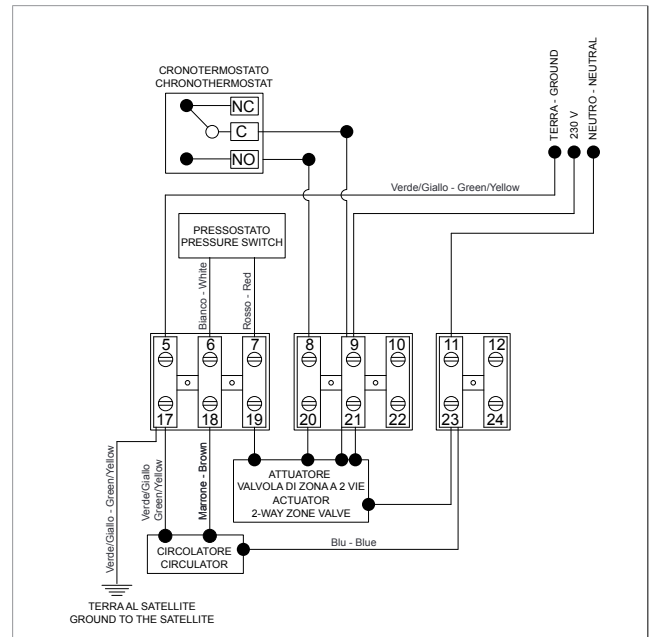
Provide a safety thermostat for the low temperature heating applications.

If you notice that the rating temperature of the heating is higher than the set value, the flow of the primary may be too high and the thermostatic head is not able to close.

To balance the heating production functions, you can adjust the **dynamic balancing valve** (Components - Ref. 2). Finally, it is possible to change the heating power by modifying the circulator speed using the red knob (Components - Ref. 21).

Electrical connections

On the top left of the satellite there is an electrical box IP55 (Componenti - Ref. 24).



Technical data

- Supply voltage for circulator: 230 V / 50 Hz
- Maximum electrical power: 43 W
- Electrical power for the circulator: 3÷45 W / 0,03÷0,44 A

Heating demand - thermostat connection

The heating demand should be given via the normally open contact of the thermostat to terminal n° 8. The common contact of the thermostat has to be connected to terminal n° 9. For the connection of the thermostat use a 2-conductor cable with 0,5 mm² section. No polarity need be complied with for the connections.

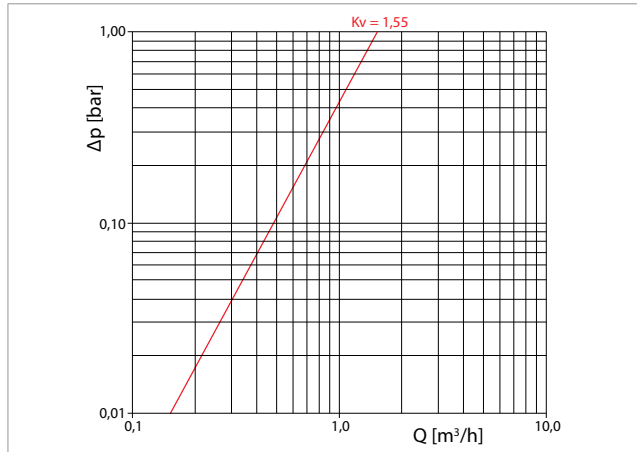
M-Bus

For the connection of the M-Bus data transmission cable to the concentrator refer to the thermal energy meters datasheet.



Small heat exchanger (GE556Y171)

Primary circuit



Primary circuit for heating production, dynamic balancing valve fully open

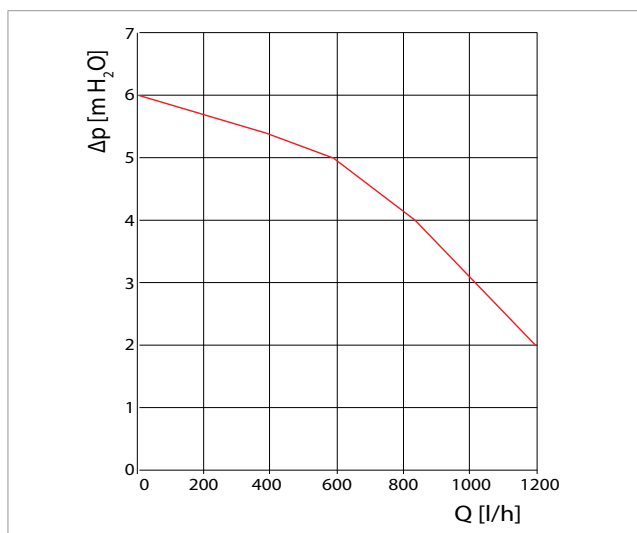
Heating

Heating Radiators			Flowrate [l/h] and primary outlet temperature (radiators 65-53 °C)		
Circulator speed	Flowrate [m³/h]	Power [kW]	80 °C	75 °C	72 °C
Max	1,2	17,4	670 (57 °C)	950 (59 °C)	1350 (61 °C)

Dati del circuito primario per riscaldamento con radiatori

Heating Radiant floor			Flowrate [l/h] and primary outlet temperature (radiators 45-38 °C)		
Circulator speed	Flowrate [m³/h]	Power [kW]	70 °C	65 °C	60 °C
Max	1,2	10,0	280 (39 °C)	340 (39 °C)	430 (40 °C)

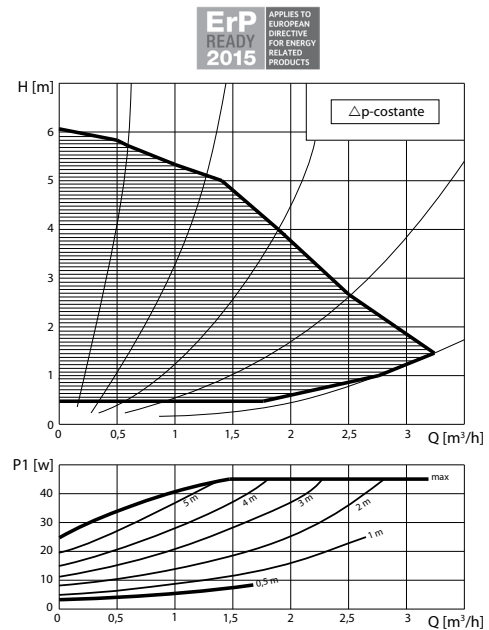
Primary circuit data for floor radiant heating.



Circulator for heating

Circulator features

High-efficiency circulator 15/6 (230 V)



Operations



Automatic constant pressure difference (recommended).



Automatic variable pressure difference.



Automatic air vent routine (10 min duration): the pump runs alternatively with high and low speeds to help air bubbles to collect and to go to the air vent in the installation.

LED - errors

green continuous

Normal running.

green flashing

Automatic operation for air elimination.

green/red flashing

Abnormal situation (pump functional but stopped):
1) Undervoltage or overvoltage
2) Wrong temperature (fluid or room temperature)

red flashing

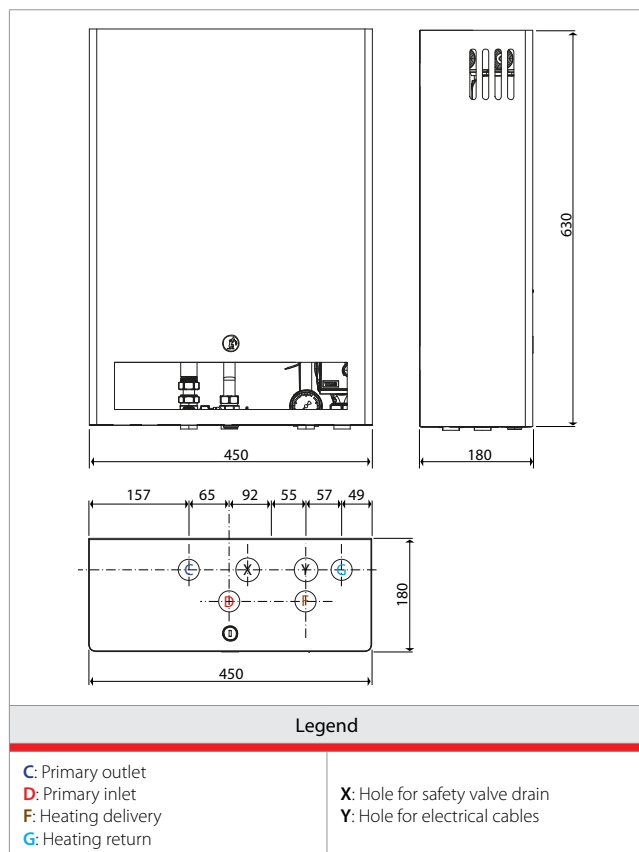
Pump stopped (permanent error: the pump need a manual reset). It can be necessary to change the pump.

NO LED

No power supply:
1) Pump is not connected to power supply: check cable connection.
2) LED is damaged: check if pump is running.
3) Electronics are damaged: change pump.



Dimensions



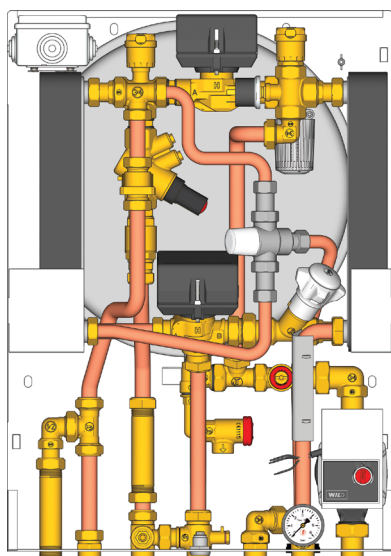
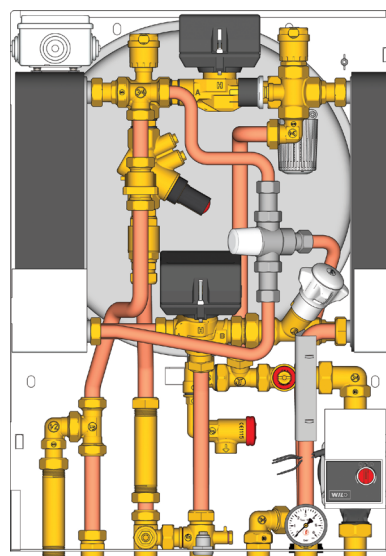
Dimensions in mm

Normative references

- UNI EN 1434
- EN 60751
- EN 61107
- Measuring Instruments Directive 2004/22/CE (MID)
- ErP Directive 2004/22/CE

Additional information

For additional information please check the website www.giacomini.com or contact the technical service: ☎ +39 0322 923372 📠 +39 0322 923255 ✉ consulenza.prodotti@giacomini.com
 This pamphlet is merely for information purposes. Giacomini S.p.A. retains the right to make modifications for technical or commercial reasons, without prior notice, to the items described in this pamphlet. The information described in this technical pamphlet does not exempt the user from following carefully the existing regulations and norms on good workmanship.
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GE556Y176

GE556Y177

Description

GE556-1 series is composed of heat interface units for heating and SHW (Sanitary Hot Water) production; they are fed by means of hot water from centralised boiler plant (e.g. district heating).

The present version uses a configuration of **two heat exchangers in parallel**, this has two principal advantages:

- Parallel and non-intermittent handling of the sanitary hot water and heating functions.
- Higher safety, the heating circuit is a sealed pressurised system should there be any leaks within property only a small amount of water will be discharged.

Versions and product codes

Product code	Type	Heat exchanger nominal power [kW]		Template with valves
		Heating	SHW	
GE556Y176	Heating and SHW production	17,4	56	GE551Y082 GE551Y084
GE556Y177	Heating and SHW production	17,4	67	GE551Y082 GE551Y084

Main features

- Heating handling with controlled temperature.
- Spacers for the meters.
- Expansion vessel, safety valve and high efficiency circulator (15/6), all comply with ErP Directive (2009/125/CE).
- Motorised zone valve for heating.
- 3/4" connections.
- Dynamic balancing valve, R206A series
- Static balancing valve, R206B-1 series
- WRAS certified components for the sanitary hot water circuit.

Technical data

- Max. working temperature of the primary circuit and secondary circuits (heating and SHW): 90 °C
- Max. working pressure of the primary circuit and secondary SHW: 16 bar



Warning.

Maximum differential pressure for the primary side = 4 bar (due to the priority valve)

- Maximum working pressure of the heating secondary circuit: 3 bar (safety valve setting)
- Nominal primary flow:
975 l/h @ 80 °C for 56 kW (GE556Y176)
970 l/h @ 80 °C for 67 kW (GE556Y177)

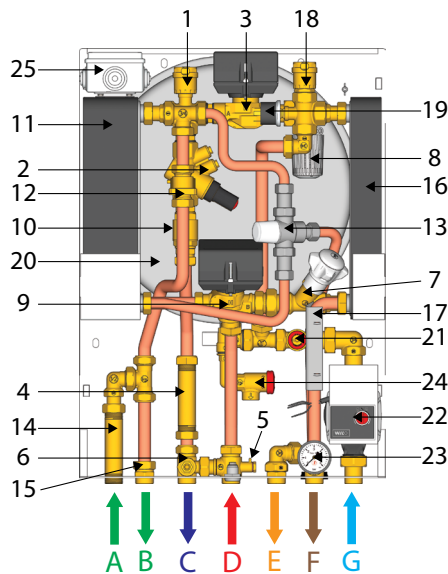


Warning.

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).



Components



Legend

1	Automatic air vent with hygroscopic gasket	PRIMARY
2	Dynamic balancing valve	
3	Motorised 2 way zone valve, for heating	
4	Spacer pipe for energy meter	
5	Temperature probe housing for energy meter	
6	Primary by-pass	
7	Static balancing valve	
8	Thermostatic head R462L for temperature control of heating	
9	Priority valve for sanitary hot water function	
10	Check valve, primary circuit	
11	Heat exchanger, sanitary hot water function	SHW PRODUCTION
12	Flow switch	
13	TMV2 & TMV3 thermostatic mixing valve	
14	Spacer pipe for sanitary hot water meter	
15	Check valve	HEATING
16	Heat exchanger, heating function	
17	Sensor of thermostatic head R462L	
18	Automatic air vent with hygroscopic gasket	
19	Pressure switch	
20	Expansion vessel	
21	Ball valve for circulator maintenance	
22	Circulator	
23	Manometer	
24	Safety valve	
25	Electric box	CONTROLS

A: Sanitary cold water inlet
B: Sanitary cold water outlet
C: Primary outlet
D: Primary inlet

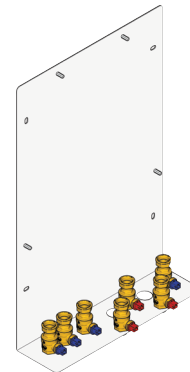
E: Sanitary hot water outlet
F: Heating delivery
G: Heating return

Optional components

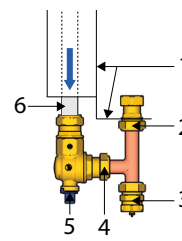
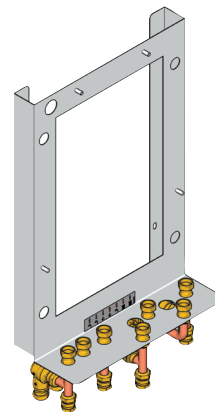
On each satellites, it is possible to install the following optional components:

- Thermal energy meter: GE552 series
The flow temperature sensor of energy meter has to be installed into the appropriate housing (Components - Ref. 5).
- Sanitary cold water meter: GE552-2 series
- Insulation in expanded PEX: code GE551Y180
- Template with valves and 3/4" connections: code GE551Y082
- Template with valves, filters and Ø 22 mm connections: code GE551Y084

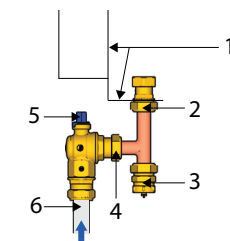
GE551Y082 - Template with 7 valves (connections from below)



GE551Y084 - Template with 7 valves (possibility of connections from above)



FLUID FROM ABOVE



FLUID FROM BELOW

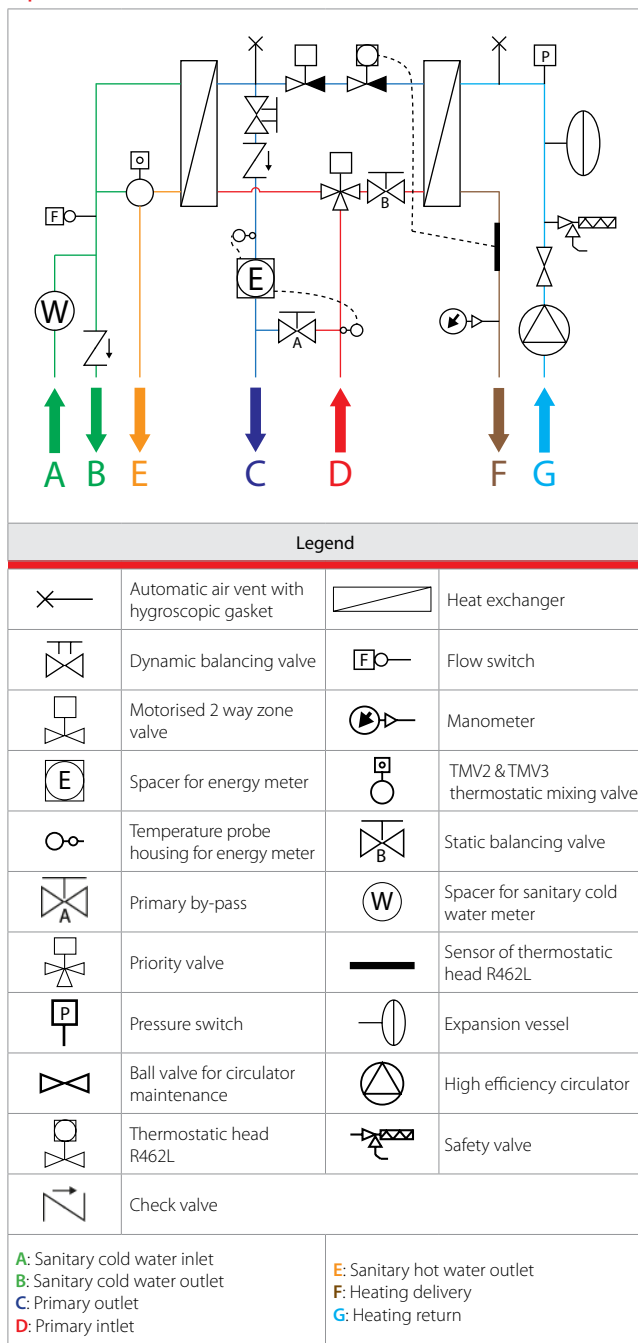
- 1) Metallic frame
- 2) Filter
- 3) Dirt-separator
- 4) Joint that allows the connection from above or from below
- 6) Ball valve
- 7) System pipes, Ø 22 mm



Warning.

The installation should be undertaken by suitably qualified and authorised personnel only.
Observe the EU norms and regulations concerning the use (installation, fixing, etc.), the operation, the recalibration and the replacement the meters. Please refer to the assembly instructions supplied with any meter.

Operation



SHW: cold water inlet (A), cold water outlet (B), hot water outlet (E).

The sanitary water circuit is composed of a heat exchanger, a brass spacer, a flow switch, a thermostatic mixing valve and a check valve.

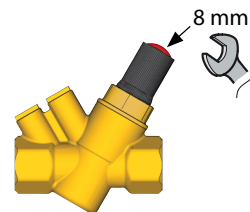
In place of the brass spacer (Components - Ref. 14) a sanitary cold water meter can be installed. A TMV2+TMV3 thermostatic mixing valve regulates the temperature of sanitary hot water (SHW).

HEATING: delivery (F) and return (G).

The heating circuit is composed of the heat exchanger, a circulator, a ball valve, a pressure switch, an air vent valve, an expansion vessel, a safety valve and a manometer.

For the heating provide for a filling system, that is a connection from the sanitary to the heating, with an appropriate backflow preventer.

R206A dynamic balancing valve setting (Δp : 30-400 kPa)



l / sec	l / h	Setting
0.113	406	1.0
0.119	427	1.1
0.125	449	1.2
0.131	470	1.3
0.137	492	1.4
0.143	513	1.5
0.149	535	1.6
0.155	556	1.7
0.161	578	1.8
0.167	599	1.9
0.172	621	2.0
0.178	642	2.1
0.184	664	2.2
0.190	685	2.3
0.196	707	2.4
0.202	728	2.5
0.208	750	2.6
0.214	771	2.7
0.220	793	2.8
0.226	814	2.9
0.232	836	3.0
0.238	857	3.1
0.244	879	3.2
0.250	900	3.3
0.256	922	3.4
0.262	943	3.5
0.268	965	3.6
0.274	987	3.7
0.280	1010	3.8
0.286	1030	3.9
0.292	1050	4.0
0.298	1070	4.1
0.304	1090	4.2
0.310	1120	4.3
0.316	1140	4.4
0.322	1160	4.5
0.328	1180	4.6
0.334	1200	4.7
0.340	1220	4.8
0.346	1240	4.9
0.352	1270	5.0

PRIMARY: inlet (D) and outlet (C).

The primary circuit is divided into two sides: one is for the heating handling, the other is for the production of SHW. It is composed of an air vent valve, a dynamic balancing valve, a 2-way zone valve motorised, a brass spacer, an housing for installing the temperature probe of the energy meter, a by-pass valve, a static balancing valve, a thermostatic head to control the temperature, a priority valve for SHW function and a check valve.

In place of the brass spacer (Components - Ref. 4) a thermal energy meter can be mounted, by installing the temperature probe in the appropriate housing (Components - Ref. 5). If the flow switch is activated (by a sanitary hot water request), the priority valve closes the heating side and gives power to the SHW production side.

Protection and safety systems



Warning.
 Danger of burns and electric shocks.
 Access to the satellite should be by suitably qualified and authorised personnel only.

It is important that the access to the satellite is made only by suitably qualified and authorised personnel: the cabinets are provided with key locking.

Controls and maintenance

Heating circuit pressure

Periodically inspect the pressure of the heating circuit by using the manometer (Components - Ref. 23): the pressure value must be maintained over 1 bar (pressure values under 1 bar can damage the circulator by cavitation).

A pressure switch with 0,8 bar settings is provide to protect the circulator.



Warning.
 Circulator stops if the pressure is below 0,8 bar due to the pressure switch device. Please, refill the system to restart the circulator.

Provide a filling system for the heating, that is a connection from the sanitary side to the heating with a backflow preventer. during filling be aware that the safety valve will activate at 3 bar (Components - Ref. 24). **Warning: danger of burns.** In order to eliminate the air in the heating circuit, use the air vent (Components - Ref. 1 and Ref. 18).

Safety valve

Periodically operate the manual handwheel of the safety valve (Components - Ref. 24). Be careful the discharge of water may be hot.

Warning: danger of burns.

Adjustments

Sanitary hot water temperature

Adjust the temperature of the sanitary hot water using the thermostatic mixing valve (Components - Ref. 13). The adjustment has to be made by means of a digital thermometer to put in contact with the outlet water, in this way (factory default 40 °C):

- Remove the cap and release the locking nut form the stem.
- Using an 8 mm allen key rotate the temperature adjustment stem anticlockwise to increase the mixed water temperature or clockwise to reduce the mixed water temperature.
- Once the desired outlet temperature is reached, re-fit the locking nut to the stem to prevent unauthorised adjustment of the valve and replace the cap on the valve body.

Heating

Adjust the heating temperature using the thermostatic head (Components - Ref. 8):

Position	1	2	3	4	5
Temperature [°C]	23	34	45	56	67



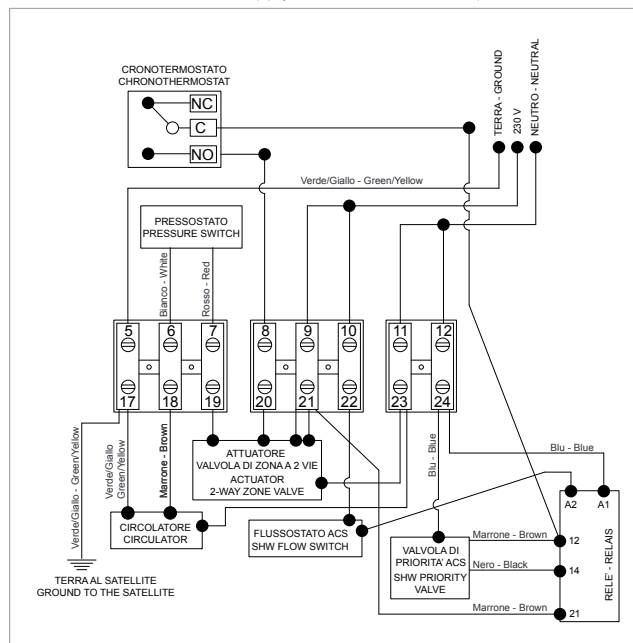
Warning.
 Provide a safety thermostat for the low temperature heating applications.

If you notice that the rating temperature of the heating is higher than the set value, the flow of the primary may be too high and the thermostatic head is not able to close.

To balance the heating production functions, you can adjust the **static balancing valve** (Components - Ref. 7). Finally, it is possible to change the heating power by modifying the circulator speed using the red knob (Components - Ref. 22).

Electrical connections

On the top left of the satellite there is an electrical box IP55 (Componenti - Ref. 25) containing a relay for the priority valve controlled by means of the flow switch and the control and supply of the circulator (Components - Ref. 22).



Technical data

- Supply voltage for circulator: 230 V / 50 Hz.
- Maximum electrical power for the satellite: 49 W
- Electrical power for the circulator: 3÷45 W / 0,03÷0,44 A

Heating demand - thermostat connection

The heating demand should be given via the normally open contact of the thermostat to terminal n°8. The common contact of the thermostat has to be connected to connection n°12 on the relay. For the connection of the thermostat use a 2-conductor cable with 0,5 mm² section. No polarity need be complied with for the connections.

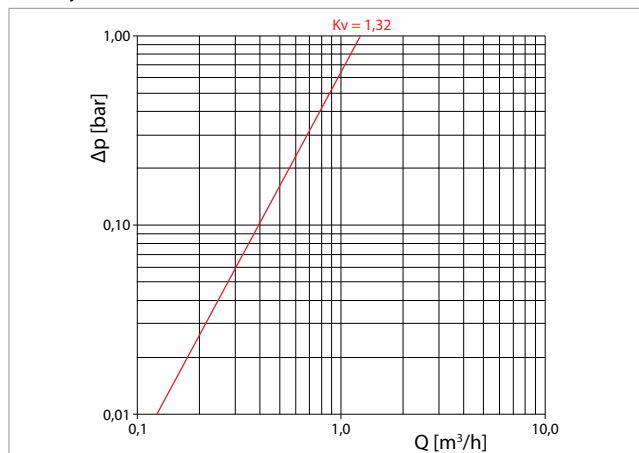
M-Bus

For the connection of the M-Bus data transmission cable to the concentrator refer to the thermal energy meters datasheet.

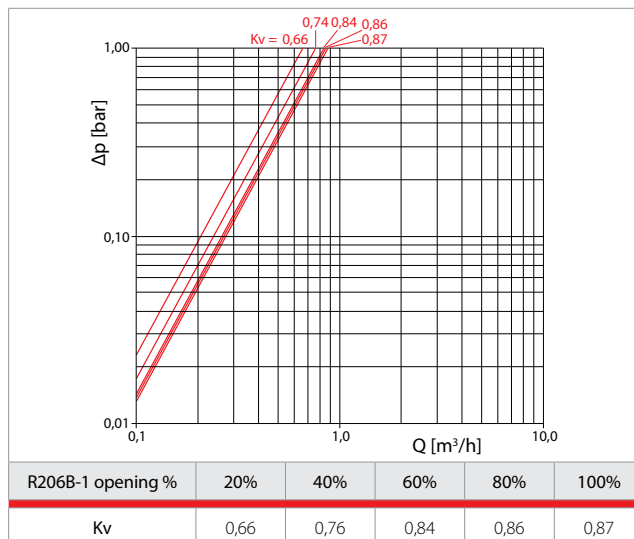


Small heat exchanger (GE556Y176)

Primary circuit



Primary circuit for sanitary hot water production, dynamic balancing valve fully open



Primary circuit for heating, dynamic balancing valve fully open and regulation on static balancing valve R206B-1

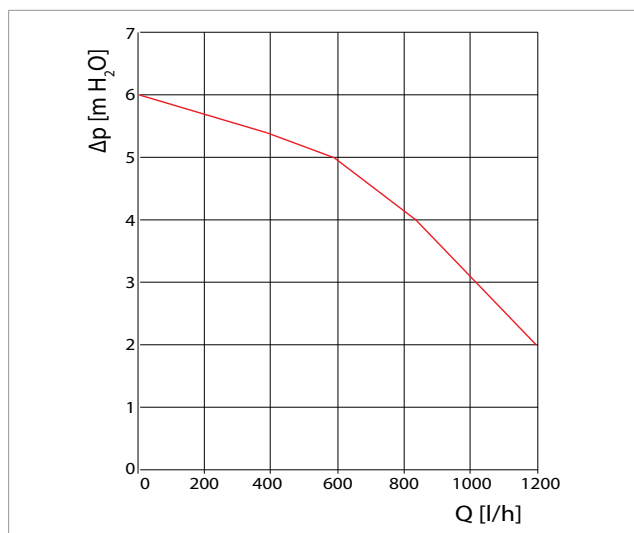
Heating

Heating Radiators			Flowrate [l/h] and primary outlet temperature (radiators 65-53 °C)		
Circulator speed	Flowrate [m³/h]	Power [kW]	80 °C	75 °C	72 °C
Max	1,2	17,4	670 (57 °C)	950 (59 °C)	1350 (61 °C)

Primary circuit data for radiator heating.

Heating Radiant floor			Flowrate [l/h] and primary outlet temperature (radiators 45-38 °C)		
Circulator speed	Flowrate [m³/h]	Power [kW]	70 °C	65 °C	60 °C
Max	1,2	10,0	280 (39 °C)	340 (39 °C)	430 (40 °C)

Primary circuit data for floor radiant heating.

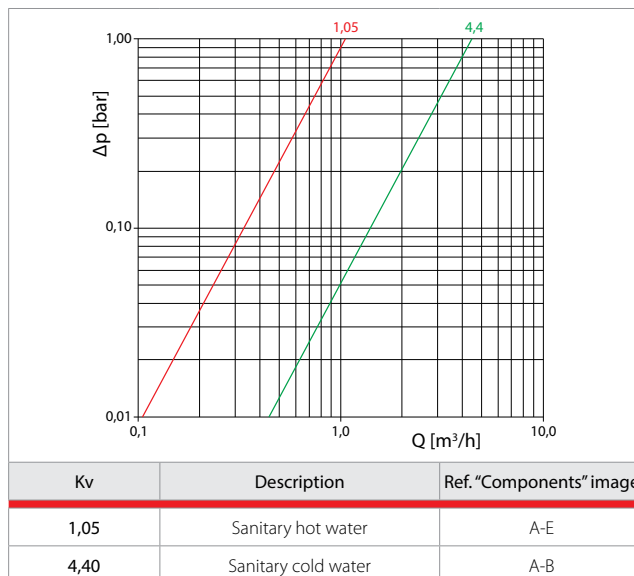


Circulator for heating

SHW production

SHW			Flowrate [l/h] and primary outlet temperature (SHW 10-50 °C)				
l/min	l/h	kW	80 °C	75 °C	70 °C	65 °C	60 °C
12	720	33	510 (22,9 °C)	580 (25 °C)	690 (27,9 °C)	865 (31,4 °C)	1210 (36 °C)
15	900	42	670 (25,7 °C)	775 (28,1 °C)	935 (31,1 °C)	1200 (34,8 °C)	
17	1020	47	785 (27,5 °C)	920 (30,2 °C)	1120 (33,2 °C)	1480 (37,1 °C)	
20	1200	56	975 (30,2 °C)	1150 (32,9 °C)	1430 (36,1 °C)		

Primary circuit data for sanitary hot water production.

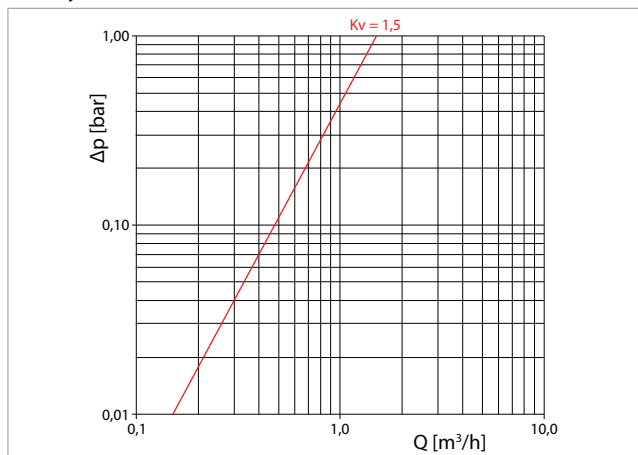


Hydraulic data for hot and cold sanitary water circuits.

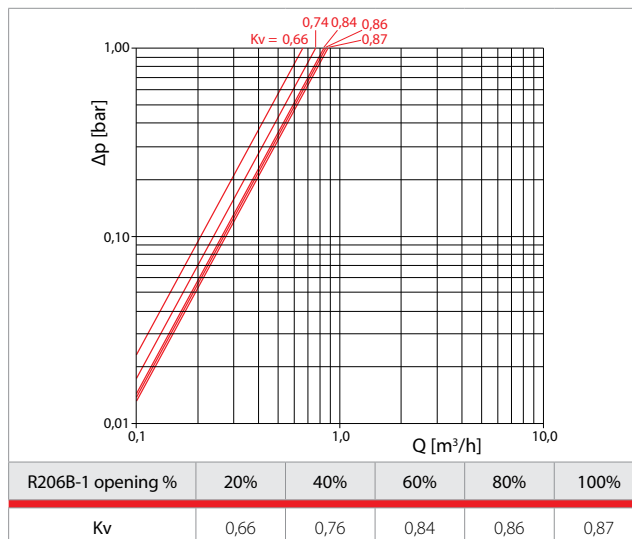


Large heat exchanger for sanitary water production (GE556Y177)

Primary circuit



Primary circuit for sanitary hot water production, dynamic balancing valve fully open



Primary circuit for heating, dynamic balancing valve fully open and regulation on static balancing valve R206B-1

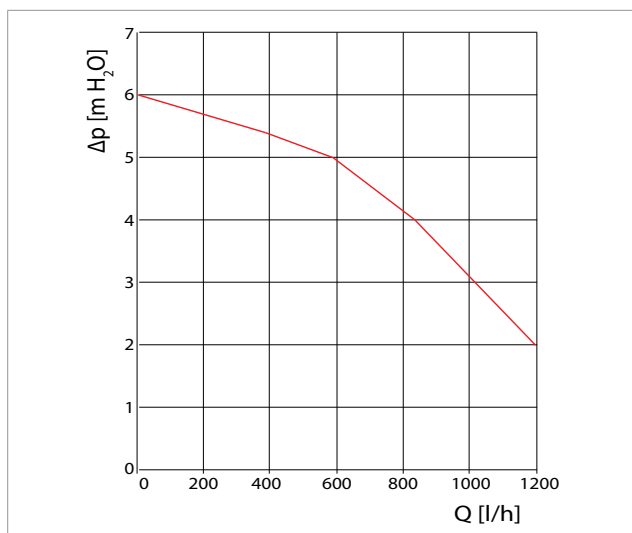
Heating

Heating Radiators			Flowrate [l/h] and primary outlet temperature (radiators 65-53 °C)		
Circulator speed	Flowrate [m³/h]	Power [kW]	80 °C	75 °C	72 °C
Max	1,2	17,4	670 (57 °C)	950 (59 °C)	1350 (61 °C)

Primary circuit data for radiator heating.

Heating Radiant floor			Flowrate [l/h] and primary outlet temperature (radiators 45-38 °C)		
Circulator speed	Flowrate [m³/h]	Power [kW]	70 °C	65 °C	60 °C
Max	1,2	10,0	280 (39 °C)	340 (39 °C)	430 (40 °C)

Primary circuit data for floor radiant heating.

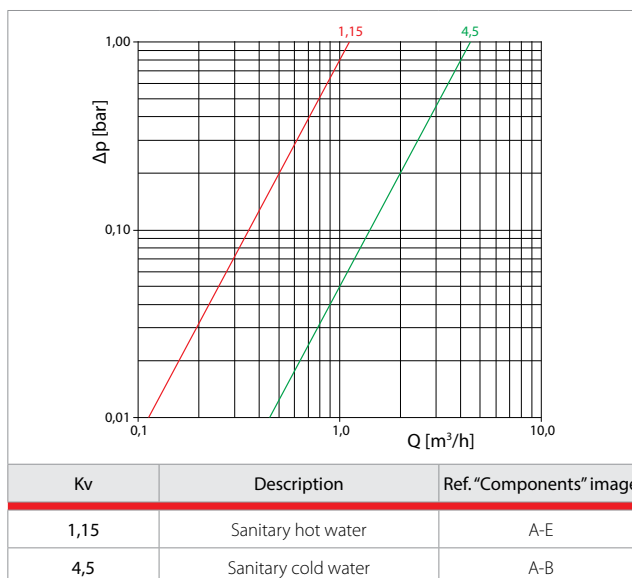


Circulator for heating

Sanitary hot water production

SHW			Flowrate [l/h] and primary outlet temperature (SHW 10-50 °C)				
l/min	l/h	kW	80 °C	75 °C	70 °C	65 °C	60 °C
12	720	33	450 (15,4 °C)	495 (16,9 °C)	565 (18,7 °C)	660 (21,3 °C)	825 (24,9 °C)
15	900	42	575 (16,8 °C)	640 (18,3 °C)	730 (20,4 °C)	870 (23,3 °C)	1105 (27,2 °C)
17	1020	47	660 (17,7 °C)	740 (19,4 °C)	850 (21,6 °C)	1010 (24,4 °C)	1300 (28,5 °C)
20	1200	56	790 (18,9 °C)	890 (20,7 °C)	1030 (23,1 °C)	1260 (26,3 °C)	
24	1430	67	970 (20,6 °C)	1100 (22,6 °C)	1280 (25,1 °C)		

Table 10 – Primary circuit data for sanitary hot water production.



Hydraulic data for hot and cold sanitary water circuits.



Circulator features

High-efficiency circulator 15/6 (230 V)		Operations
<div> </div> <div> </div> <div> </div>		 Automatic constant pressure difference (recommended).
		 Automatic variable pressure difference.
		 Automatic air vent routine (10 min duration): the pump runs alternatively with high and low speeds to help air bubbles to collect and to go to the air vent in the installation.
		LED - errors
		green continuous Normal running.
		green flashing Automatic operation for air elimination.
		green/red flashing Abnormal situation (pump functional but stopped): 1) Undervoltage or overvoltage 2) Wrong temperature (fluid or room temperature)
		red flashing Pump stopped (permanent error: the pump need a manual reset). It can be necessary to change the pump.
		NO LED No power supply: 1) Pump is not connected to power supply: check cable connection. 2) LED is damaged: check if pump is running. 3) Electronics are damaged: change pump.

Dimensions

Legend	
A: Sanitary cold water inlet B: Sanitary cold water outlet C: Primary outlet D: Primary inlet	E: Sanitary hot water outlet F: Heating delivery G: Heating return X: Hole for safety valve drain Y: Hole for electrical cables

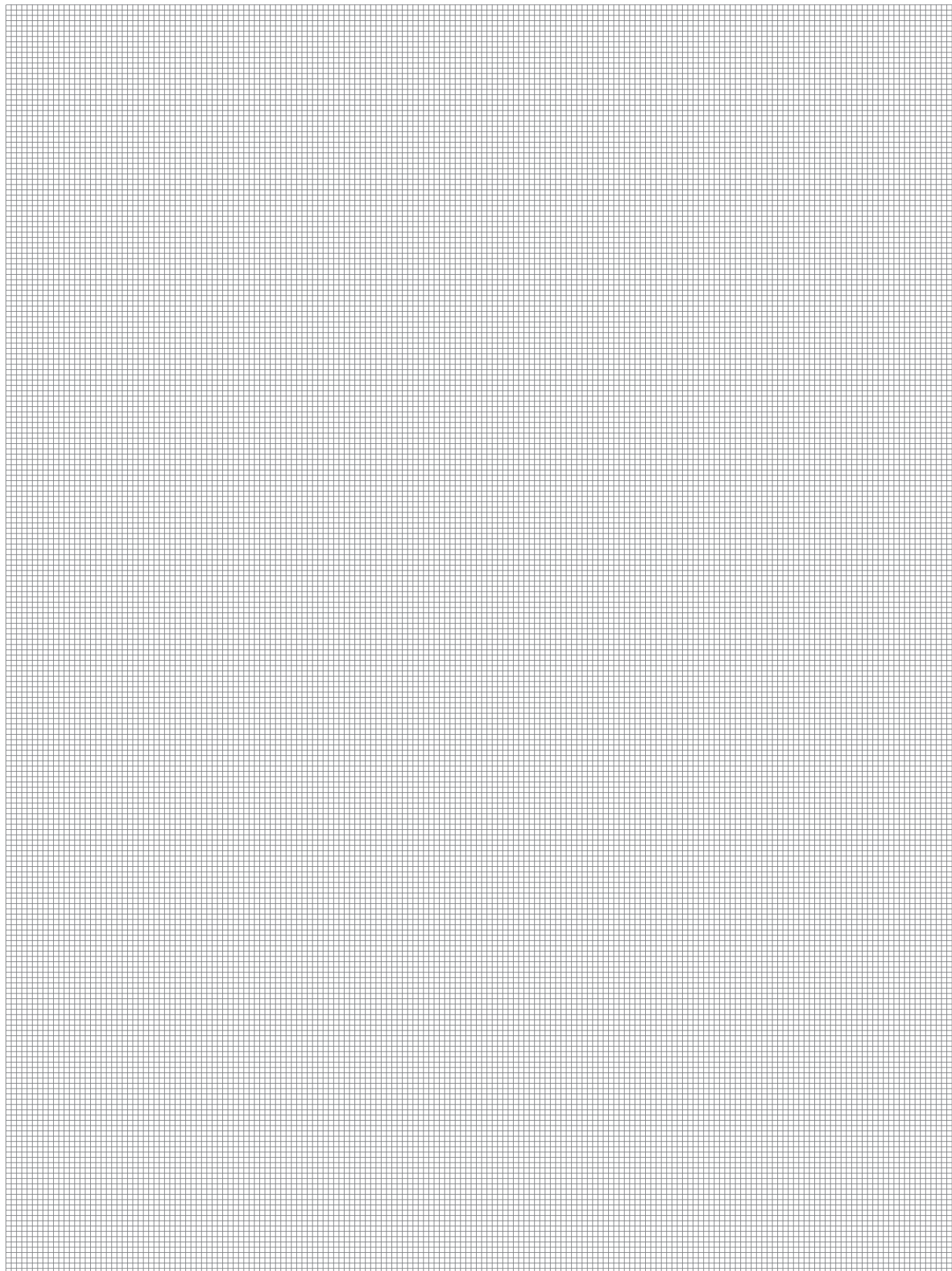
Dimensions in mm

Normative references

- UNI EN 1434
- EN 60751
- EN 61107
- Measuring Instruments Directive 2004/22/CE (MID)
- ErP Directive 2004/22/CE

WRAS approvals

Ref. "Components" image	Components	Certificate number
-	Gaskets	1004515
11, 16	Heat exchanger	1403059
13	Thermostatic mixing valve	1405089
15	Check valve	1408704

**Additional information**

For additional information please check the website www.giacomini.com or contact the technical service: ☎ +39 0322 923372 📠 +39 0322 923255 ✉ consulenza.prodotti@giacomini.com
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