





Hydraulic Groups



Hydraulic Accessories



Valve Sets

PAKKENS®

PAKKENS Inc. is costantly seeking ways to improve the specifications, designs and production of its products and alterations take place continually.

PAKKENS Inc. reserves the rights to change the specifications without prior notice.



Büyük işler, mühim tesebbüsler ancak müsterek mesai ile mümkündür.

&. ataturk

Huge works, important cooperations, only possible with shared shifts.



For over 45 years, PAKKENS has been a leading company in the design and manufacturing of all kinds of pressure and temperature measurement instruments, HVAC and sanitary products, hydraulic groups and customer specific precision machined parts.

With 450 highly qualified employees at two fully integrated manufacturing facilities, PAKKENS has been serving major OEMs and end users in gas

distribution, petro-chemicals, pharmaceuticals, medical, food processing, heating, machine building, hydraulics, agriculture, construction, automotive, defence and aerospace industries.

In addition to continuously strengthening its presence in the existing business lines, Pakkens continues to invest in the design and manufacturing of high value added and innovative products within the framework of its strategic growth and sustainability plans.

PAKKENS VALVES

PAKKENS designs and manufactures hydraulic

groups and a complete portfolio of hydraulic accessories for well known boiler manufacturers and other customers.

As of today, PAKKENS Valves offers a wide range of plastic and brass hydraulic groups, that would fit in virtually all boiler platforms whether it is combi, CH only or storage type.

PAKKENS Valves had dedicated most of its resources to become a global solution partner

Right and manufacture of budraulic groups

for the design and manufacture of hydraulic groups and related accessories, and became a fully integrated company able to realize all processes from conceptual design to series production in-house.

PAKKENS Valves is a customer oriented company that can offer tailor made solutions even for annual quantities as low as 1.000 sets per year, and performs all design, production and tooling studies to get a product that fulfills your requirements, completely free of charge.

PAKKENS INSTRUMENTS

PAKKENS is also a well known manufacturer of pressure and temperature instruments for over 45 years.

Our instrumentation product portfolio covers all kinds of gauges and related accessories such as General Purpose and Accurate Pressure Gauges, Pressure Transmitters, Diaphragm Seals, Diaphragm Seal Systems, Differential Pressure Gauges, Contact Type Pressure Gauges, Pressure Gauges with Output Signal, Bi-Metal and Gas Actuated Temperature Gauges, Combined Gauges, Valves and Manifolds,

Where Pressure Matters...™

Thermowells, Instrumentation Accessories, Calibration Services, etc.

PAKKENS Instruments offers more than 15.000 standard and custom products, and is the market leader -almost a monopoly- in Turkey.

As of today, the company has the first and most advanced certified instrumentation calibration laboratory in Turkey, and has very well structured design & development, quality, manufacturing, planning and logistics processes and systems to guarantee world class products with optimal prices.





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MAIN FEATURES OF HYDRAULIC GROUPS

- Brass or composite hydraulic groups that fit in virtually all boiler platforms
- PAKKENS 3 way valve cartridge for on-off type or step motor applications
- Turbine type flow meter with hall effect sensor
- Filter on DW circuit
- Brass or plastic safety valve (3 bar, ½")
- Manual or automatic filling tap
- Internal or external by-pass function
- Flow regulator
- Back flow preventer (EN1717 Type EA. Valid for applicable models)

Customer connections for:

- Pressure sensor or switch
- NTC sensor
- Circulation pump
- Plate heat exchanger
- Pressure gauge
- Pressure vessel
- Safety valve
- Hydraulic groups are compatible with all circulation pump brands
- All hydraulic groups are compatible with on-off type or step motor applications
- Hydraulic groups are tested 100% for leakage and functionality prior to shipment
- All components are WRAS certified



Hydraulic Groups

Selection Matrix

M	lodel Nr.	Brass body	Composite body	Pressure relief valve Brass or plastic	Filling tap	DHW filter	Flow regulator	Flow sensor	Pressure port - 1 for pressure gauge / sensor switch	Pressure port - 2 for pressure gauge / sensor switch	NTC sensor connection	3 Way valve Compatible with on-off or step motors	Back flow preventer EN1717 Type EA	Temperature sensor connection
	HB-101		_	*	*	V	*	~	*	*	V	step motors	_	_
	HB-102		_	· /	· /	· /	· /	· /	· ·	_	· /	· /	_	_
	HB-103	_	~	· /	V	V	·	V	· ·	V	·	· ·	_	_
	HB-104		_	/	· /	*	*	V	/	_	*	*	_	_
	HB-105		_	*	· /	·	· /	V	*	_	*	V	_	_
	HB-106	<u> </u>	_	*	/	*	*	V	*	_	*	*		_
	HB-107	/	_	*	*	*	*	V	*	_	*	V	_	_
	HB-108	<u> </u>	_	*	*	*	V	V	*	/	*	V	_	_
	HB-109	<u> </u>	_	*	*	*	*	V	*	*	*	V	_	_
	HB-110	_	~	*	*	*	~	V	*	~	~	~	_	_
	HB-111	_	~	*	_	~	~	V	~	~	~	~	_	-
	HB-112	~	_	*	*	~	~	V	*	~	~	~	_	-
	HB-113	~	_	*	*	~	~	V	~	~	~	~	~	-
	HB-114	~	_	*	*	~	~	V	~	~	~	~	_	-
<u>₩</u>	HB-115	~	_	~	~	~	~	✓	~	~	~	~	_	-
	HB-116	~	_	*	*	~	~	✓	~	_	_	~	_	-
	HB-117	~	_	~	~	*	~	V	~	_	_	~	_	~
	HB-118	~	~	~	~	~	~	V	V	~	~	~	_	_
	HB-119	V	-	~	_	~	~	V	-	_	_	~	-	-
	HB-120	✓	-	~	~	~	~	✓	~	_	-	~	-	~
	HB-121	✓	-	~	~	~	~	✓	V	~	~	*	-	v
	HB-122	✓	-	~	~	~	~	✓	~	~	~	~	-	-
	HB-123	-	~	~	~	~	~	✓	~	~	~	~	~	-
	HB-124	-	~	~	~	~	~	✓	~	~	~	~	~	-
	HB-125	✓	-	~	~	~	-	✓	~	~	_	~	-	-
	HB-126	✓	-	_	~	~	~	✓	-	_	~	~	-	-
	HB-127	✓	_	~	~	~	~	✓	~	~	~	~	-	-
	HB-128	-	~	~	~	~	~	~	~	~	~	~	~	-
	HB-129	-	~	~	~	~	~	✓	~	~	~	~	~	-
	HB-130	✓	_	~	~	~	~	✓	~	_	~	~	~	-
	HB-201	V	-	~	~	4	V	V	V	*	-	-	-	-
CB	HB-202	~	-	✓	V	V	V	✓	✓	-	-	-	-	-
	HB-203	~	-	~	V	V	V	✓	V	V	_	-	-	-
ST	HB-301	~	_	~	-	-	-	-	V	V	-	V	-	-
	HB-302	~	-	~	~	-	-	-	✓	-	-	V	-	_
동	HB-401	V	-	~	✓	-	-	-	-	-	-	-	-	-
СМ	Combi Mo	onotherm	nic CB	Combi B	ithermic	ST	Storage	Туре	Cl	Heating	g Only			







COMBI MONOTHERMIC





Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

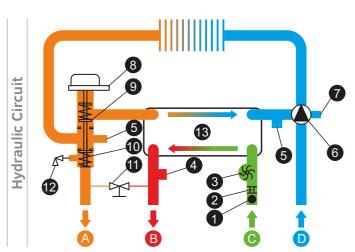
Through PHE

Pressure Relief Valve:

3 bar

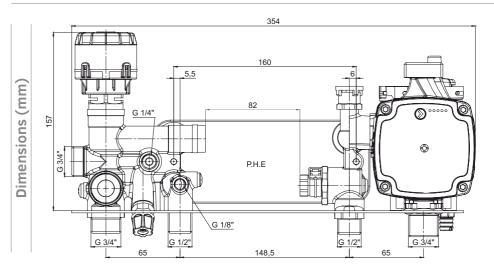
Pump Connection:

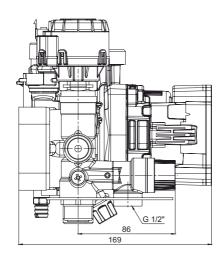
Side



- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Pressure Port (for Pressure Gauge/Sensor/Switch)
- 6 Circulation Pump
- 7 Expansion Vessel Connection

- 8 3 Way Valve Motor
- 9 Automatic Bypass
- 10 3 Way Valve
- filling Tap
- 12 Safety Valve
- 13 Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH









Combi Monothermic / Brass / Side Pump Connection



Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

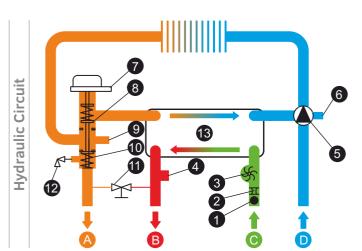
Through PHE

Pressure Relief Valve:

3 bar

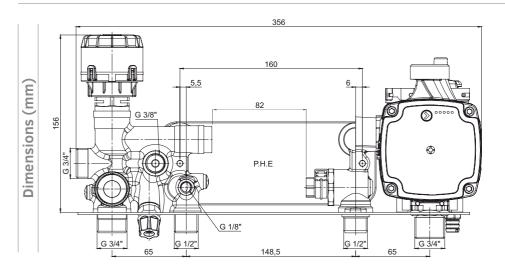
Pump Connection:

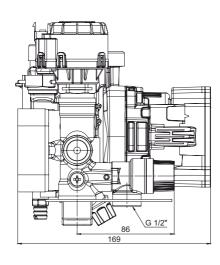
Side



- 1 DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Circulation Pump
- 6 Expansion Vessel Connection
- 3 Way Valve Motor

- 8 Automatic Bypass
- 9 Pressure Port (for Pressure Gauge/Sensor/Switch)
- 10 3 Way Valve
- 11 Filling Tap
- Safety Valve
- 13 Plate Heat Exchanger
- A Heating Delivery CH
- B Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH









Combi Monothermic / Composite / Side Pump Connection



Technical Features

Material:

Plastic (PA66 GF30) + Brass (CuZn40Pb2)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

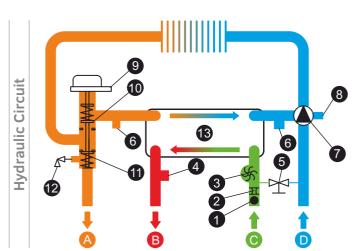
By-Pass:

Through PHE

Pressure Relief Valve:

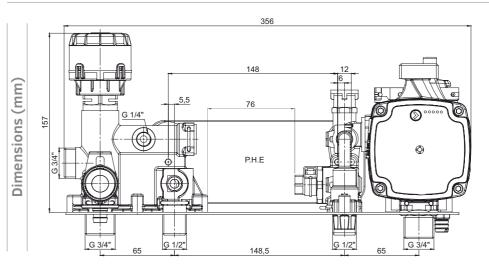
3 bar

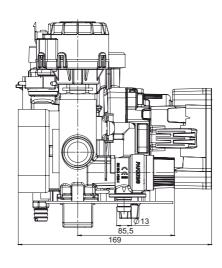
Pump Connection:



- 1 DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Filling Tap
- 6 Pressure Port (for Pressure Gauge/Sensor/Switch)
- 7 Circulation Pump

- 8 Expansion Vessel Conn.
- 9 3 Way Valve Motor
- 10 Automatic Bypass
- 11 3 Way Valve
- 12 Safety Valve
- 13 Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH







^{*} Dimensions valid for a PHE width of 190mm



Combi Monothermic / Brass / Side Pump Connection



Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

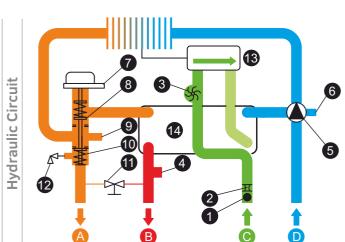
Through PHE

Pressure Relief Valve:

3 bar

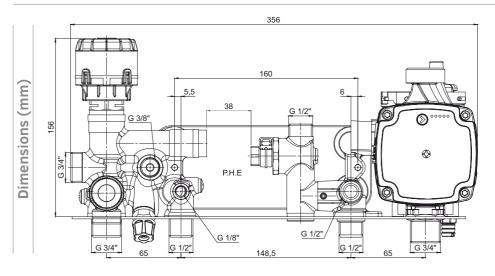
Pump Connection:

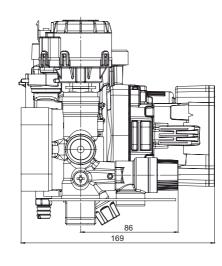
Side



- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Circulation Pump
- 6 Expansion Vessel Connection
- 3 Way Valve Motor

- 8 Automatic Bypass
- 9 Pressure Port (for Pressure Gauge/Sensor/Switch)
- 10 3 Way Valve
- filling Tap
- 2 Safety Valve
- 13 Condensing Boiler
- Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH











Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

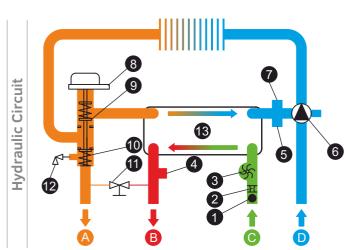
By-Pass:

Through PHE

Pressure Relief Valve:

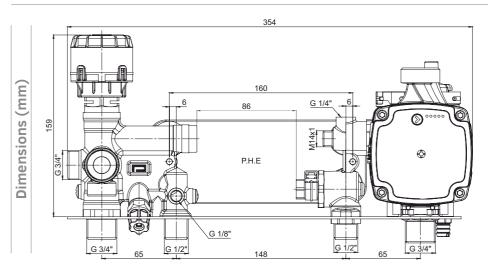
3 bar

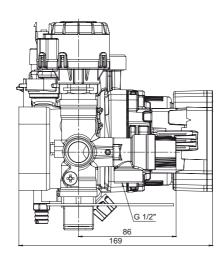
Pump Connection:



- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Pressure Port (for Pressure Gauge/Sensor/Switch)
- 6 Circulation Pump
- 7 Expansion Vessel Connection

- 8 3 Way Valve Motor
- 9 Automatic Bypass
- 10 3 Way Valve
- filling Tap
- 12 Safety Valve
- 13 Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH







^{*} Dimensions valid for a PHE width of 190mm



Combi Monothermic / Brass / Side Pump Connection



Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

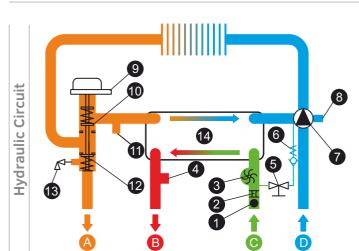
Through PHE

Pressure Relief Valve:

3 bar (Brass or Plastic)

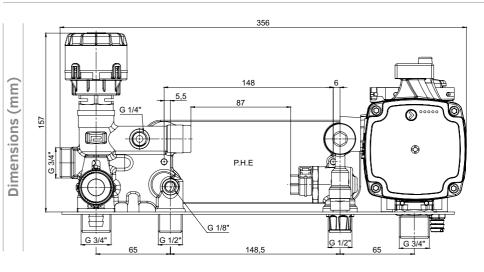
Pump Connection:

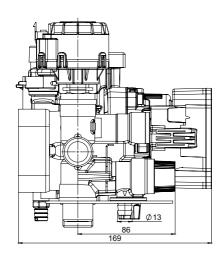
Side



- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Filling Tap
- 6 Back Flow Preventer (EN1717 Type EA)
- Circulation Pump

- 8 Expansion Vessel Conn.
- 9 3 Way Valve Motor
- 10 Automatic Bypass
- Pressure Port (for Pressure Gauge/Sensor/Switch)
- 12 3 Way Valve
- 13 Safety Valve
- Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH











Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

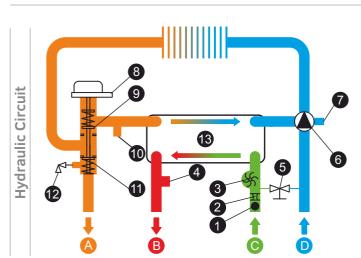
By-Pass:

Through PHE

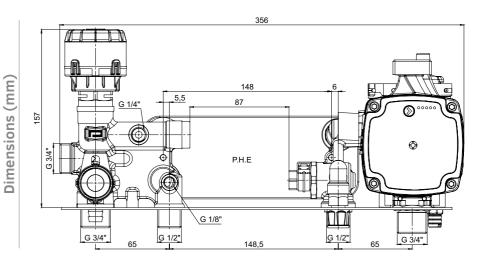
Pressure Relief Valve:

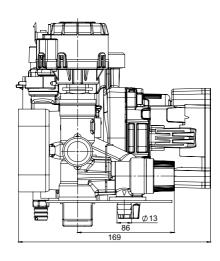
3 bar (Brass or Plastic)

Pump Connection:



- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Filling Tap
- 6 Circulation Pump
- 7 Expansion Vessel Connection
- 8 3 Way Valve Motor
- 9 Automatic Bypass
- Pressure Port (for Pressure Gauge/Sensor/Switch)
- 11 3 Way Valve
- Safety Valve
- 13 Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH







^{*} Dimensions valid for a PHE width of 190mm



Combi Monothermic / Brass / Side Pump Connection



Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

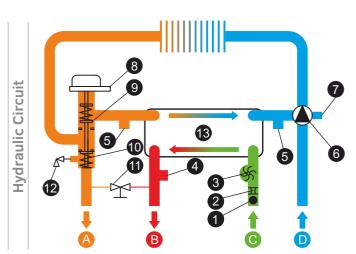
Through PHE

Pressure Relief Valve:

3 bar

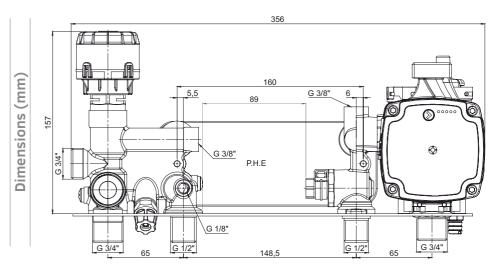
Pump Connection:

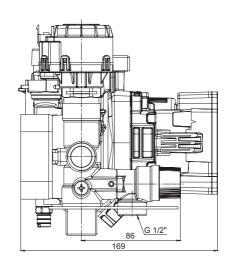
Side



- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- Pressure Port (for Pressure Gauge/Sensor/Switch)
- 6 Circulation Pump
- 7 Expansion Vessel Connection

- 8 3 Way Valve Motor
- 9 Automatic Bypass
- 10 3 Way Valve
- filling Tap
- 12 Safety Valve
- 13 Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH











Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

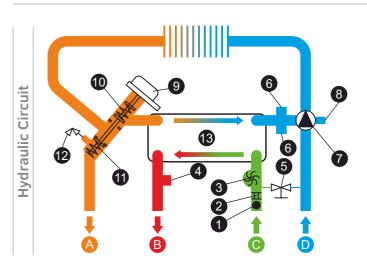
Through PHE

Pressure Relief Valve:

3 bar

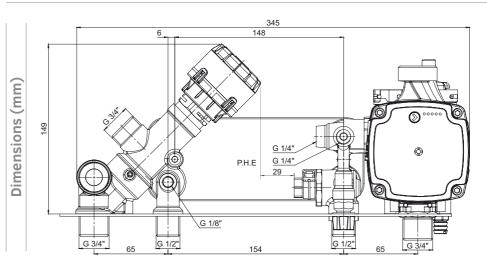
Pump Connection:

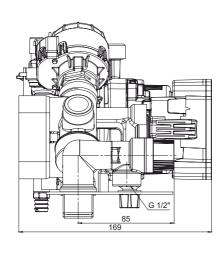
Side



- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Filling Tap
- 6 Pressure Port (for Pressure Gauge/Sensor/Switch)
- 7 Circulation Pump

- 8 Expansion Vessel Conn.
- 9 3 Way Valve Motor
- 10 Automatic Bypass
- 11 3 Way Valve
- 12 Safety Valve
- 13 Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- © Sanitary Water Inlet DW
- D Heating Return CH









Combi Monothermic / Composite / Side Pump Connection



Technical Features

Material:

Plastic (PA66 GF30) + Brass (CuZn40Pb2)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

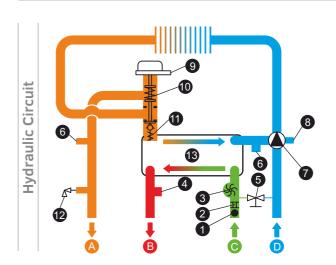
Through PHE

Pressure Relief Valve:

3 bar

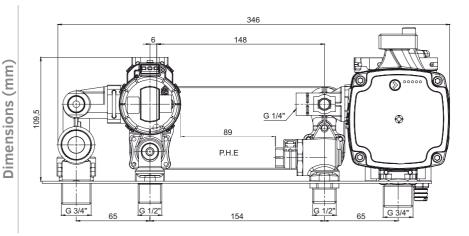
Pump Connection:

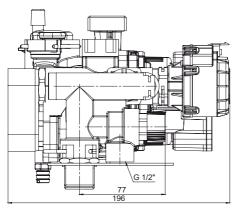
Side



- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Filling Tap
- 6 Pressure Port (for Pressure Gauge/Sensor/Switch)
- 7 Circulation Pump

- 8 Expansion Vessel Conn.
- 9 3 Way Valve Motor
- 10 3 Way Valve
- 11 Automatic Bypass
- 12 Safety Valve
- 13 Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH









Combi Monothermic / Composite / Side Pump Connection



Technical Features

Material:

Plastic (PA66 GF30) + Brass (CuZn40Pb2)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

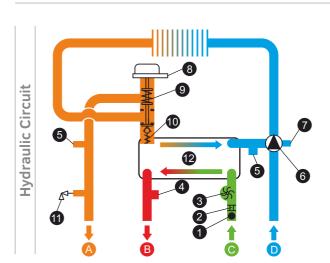
By-Pass:

Through PHE

Pressure Relief Valve:

3 bar

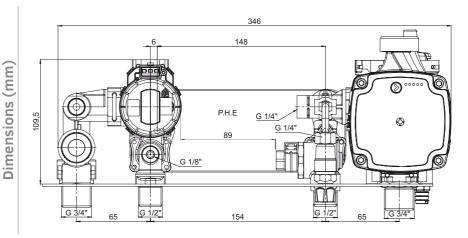
Pump Connection:

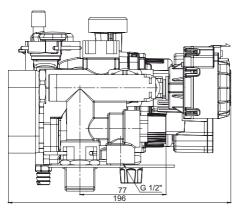


- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Pressure Port (for Pressure Gauge/Sensor/Switch)
- 6 Circulation Pump
- 7 Expansion Vessel Connection

- 8 3 Way Valve Motor
- 9 3 Way Valve
- 10 Automatic Bypass
- 11 Safety Valve
- 12 Plate Heat Exchanger

- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH







^{*} Dimensions valid for a PHE width of 190mm



Combi Monothermic / Brass / Side Pump Connection



Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

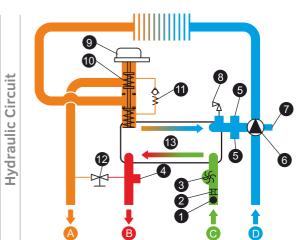
Through PHE

Pressure Relief Valve:

3 bar

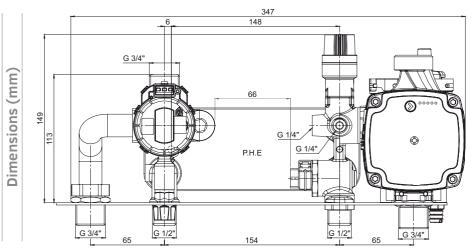
Pump Connection:

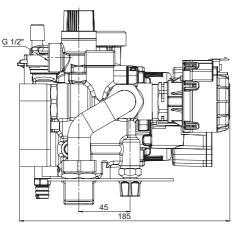
Side



- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Pressure Port (for Pressure Gauge/Sensor/Switch)
- 6 Circulation Pump
- 7 Expansion Vessel Connection

- 8 Safety Valve
- 9 3 Way Valve Motor
- 10 3 Way Valve
- 11 Automatic Bypass
- 12 Filling Tap
- 13 Plate Heat Exchanger
- A Heating Delivery CH
- B Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH











Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

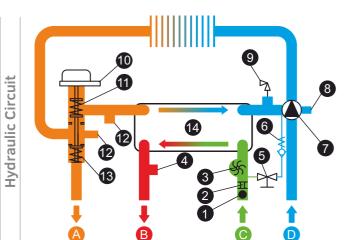
By-Pass:

Through PHE

Pressure Relief Valve:

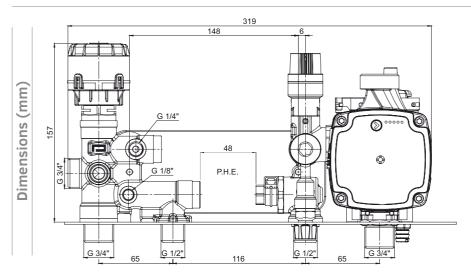
3 bar

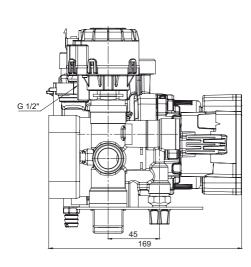
Pump Connection:



- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Filling Tap
- 6 Back Flow Preventer (EN1717 Type EA)
- Circulation Pump
- 8 Expansion Vessel Connection

- 9 Safety Valve
- 3 Way Valve Motor
- 11 3 Way Valve
- Pressure Port (for Pressure Gauge/Sensor/Switch)
- 13 Automatic Bypass
- 14 Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH







^{*} Dimensions valid for a PHE width of 190mm



Combi Monothermic / Brass / Side Pump Connection



Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

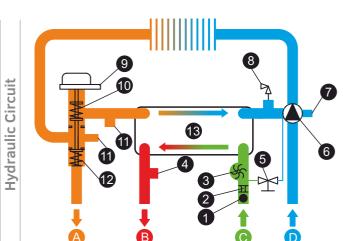
Through PHE

Pressure Relief Valve:

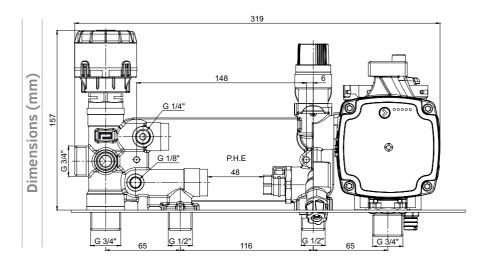
3 bar (Brass or Plastic)

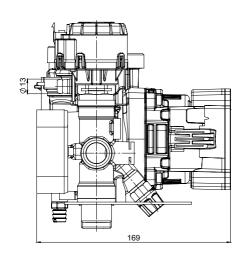
Pump Connection:

Side



- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Filling Tap
- 6 Circulation Pump
- 7 Expansion Vessel Connection
- 8 Safety Valve
- 9 3 Way Valve Motor
- 10 3 Way Valve
- Pressure Port (for Pressure Gauge/Sensor/Switch)
- 12 Automatic Bypass
- 13 Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH











Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

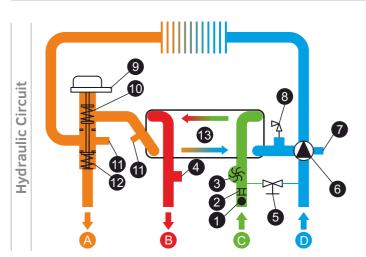
Through PHE

Pressure Relief Valve:

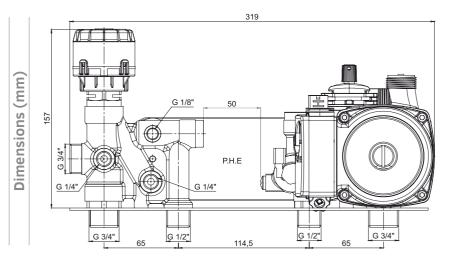
3 bar

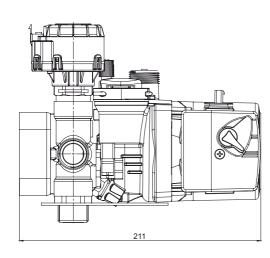
Pump Connection:

Front



- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Filling Tap
- 6 Circulation Pump
- 7 Expansion Vessel Connection
- 8 Safety Valve
- 9 3 Way Valve Motor
- 10 Automatic Bypass
- Pressure Port (for Pressure Gauge/Sensor/Switch)
- 12 3 Way Valve
- 13 Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH









Combi Monothermic / Brass / Front Pump Connection



Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

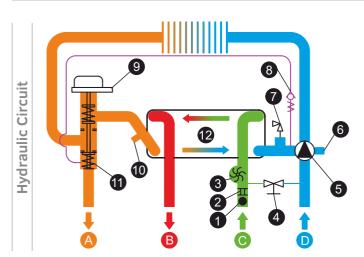
External

Pressure Relief Valve:

3 bar

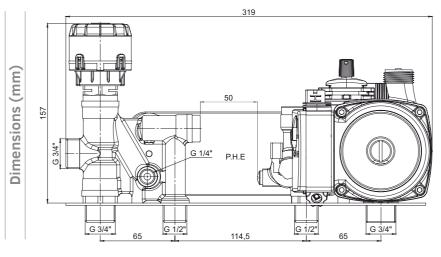
Pump Connection:

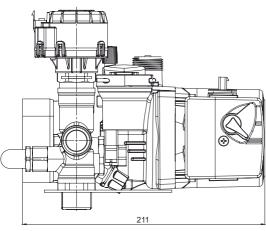
Front



- 1 DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 Filling Tap
- 6 Circulation Pump
- 6 Expansion Vessel Connection
- Safety Valve

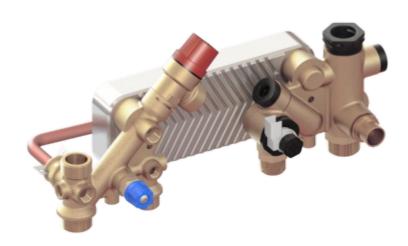
- 8 External Bypass
- 9 3 Way Valve Motor
- Pressure Port (for Pressure Gauge/Sensor/Switch)
- 11 3 Way Valve
- 12 Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH











Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

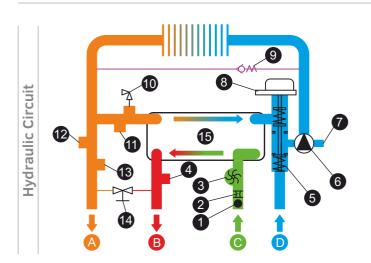
External

Pressure Relief Valve:

3 bar

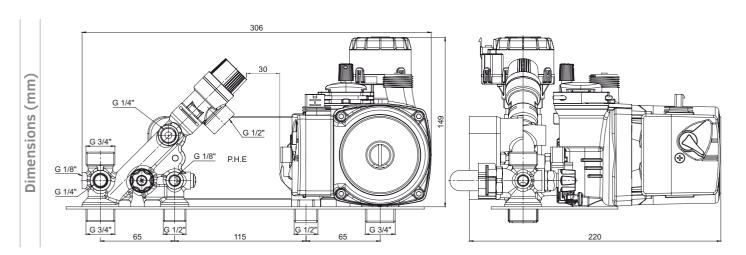
Pump Connection:

Front



- 1 DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 3 Way Valve
- 6 Circulation Pump
- Expansion Vessel Connection
- 8 3 Way Valve Motor

- 9 External Bypass
- 10 Safety Valve
- Pressure Port (for Pressure Gauge/Sensor/Switch)
- 12 Heating Temp. Sensor Con.
- 13 Drain Valve
- 14 Filling Tap
- 15 Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH



^{*} Dimensions valid for a PHE width of 190mm





Combi Monothermic / Composite / Side Pump Connection



Technical Features

Material:

Plastic (PA66 GF30) + Brass (CuZn40Pb2)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

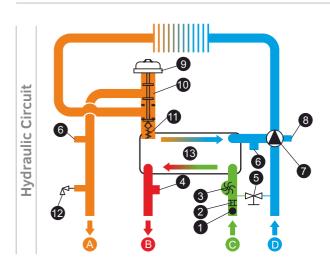
Through PHE

Pressure Relief Valve:

3 bar

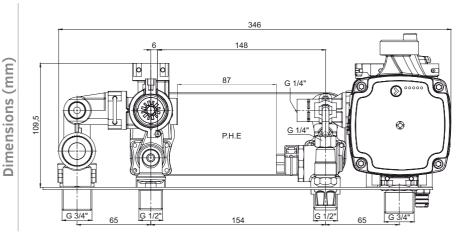
Pump Connection:

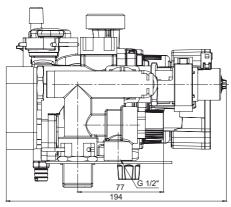
Side



- 1 DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Filling Tap
- 6 Pressure Port (for Pressure Gauge/Sensor/Switch)
- Circulation Pump

- 8 Expansion Vessel Conn.
- 9 Stepper Motor
- 10 3 Way Valve
- 11 Automatic Bypass
- 12 Safety Valve
- 13 Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH











Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

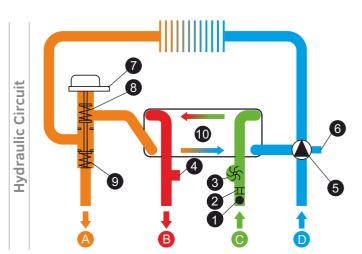
By-Pass:

Through PHE

Pressure Relief Valve:

3 bar

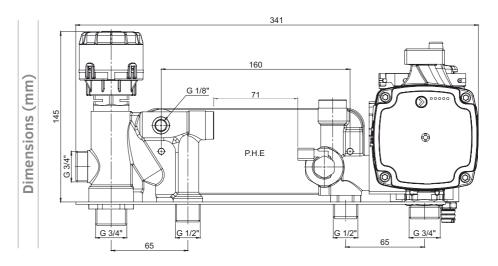
Pump Connection:

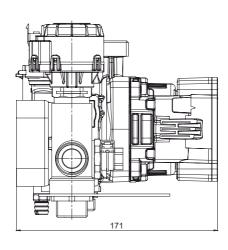


- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 6 Circulation Pump
- 6 Expansion Vessel Connection
- 7 3 Way Valve Motor

- 8 Automatic Bypass
- 9 3 Way Valve
- 10 Plate Heat Exchanger

- A Heating Delivery CH
- B Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH







^{*} Dimensions valid for a PHE width of 190mm



Combi Monothermic / Brass / Front Pump Connection



Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

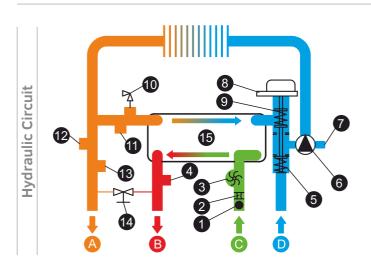
Through PHE

Pressure Relief Valve:

3 bar

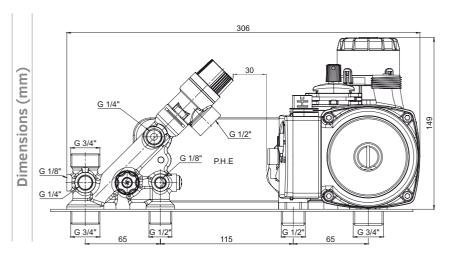
Pump Connection:

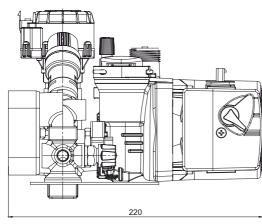
Front



- 1 DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 3 Way Valve
- 6 Circulation Pump
- Expansion Vessel Connection
- 8 3 Way Valve Motor

- 9 Automatic Bypass
- 10 Safety Valve
 - Pressure Port (for Pressure Gauge/Sensor/Switch)
- 12 Heating Temp. Sensor Con.
- 13 Drain Valve
- 14 Filling Tap
- 15 Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH











Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

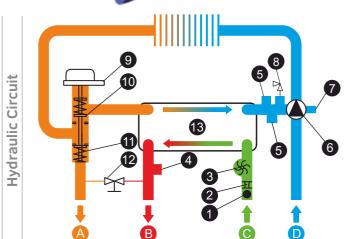
By-Pass:

Through PHE

Pressure Relief Valve:

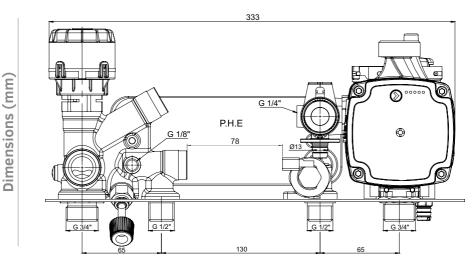
3 bar

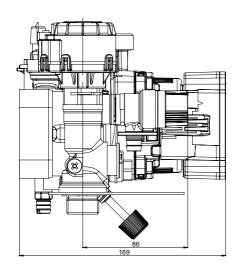
Pump Connection:



- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Pressure Port (for Pressure Gauge/Sensor/Switch)
- 6 Circulation Pump
- 7 Expansion Vessel Conn.

- 8 Safety Valve
- 9 3 Way Valve Motor
- 10 Automatic Bypass
- 11 3 Way Valve
- 12 Filling Tap
- 13 Plate Heat Exchanger
- A Heating Delivery CH
- B Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH







^{*} Dimensions valid for a PHE width of 190mm



Combi Monothermic / Brass / Side Pump Connection



Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

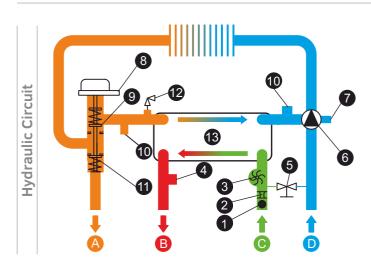
Through PHE

Pressure Relief Valve:

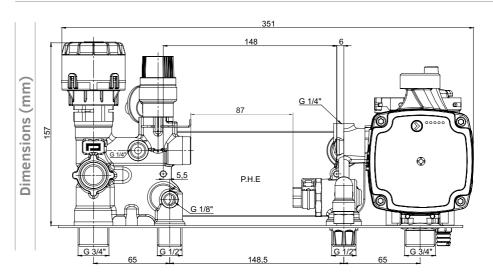
3 bar

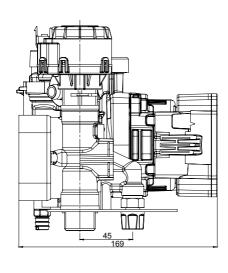
Pump Connection:

Side



- OHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Filling Tap
- 6 Circulation Pump
- 7 Expansion Vessel Connection
- 8 3 Way Valve Motor
- 9 Automatic Bypass
- Pressure Port (for Pressure Gauge/Sensor/Switch)
- 11 3 Way Valve
- 12 Safety Valve
- 13 Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH









Combi Monothermic / Composite / Side Pump Connection



Technical Features

Material:

Plastic (PA66 GF30) + Brass (CuZn40Pb2)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

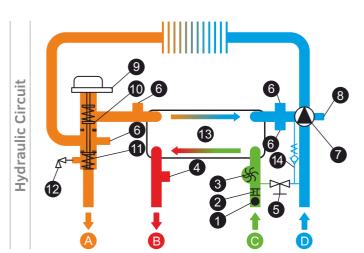
By-Pass:

Through PHE

Pressure Relief Valve:

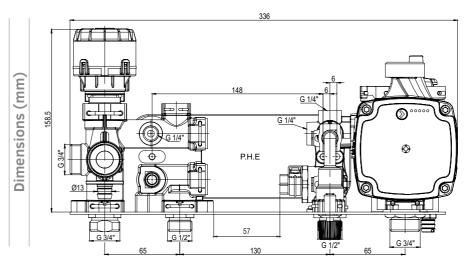
3 bar

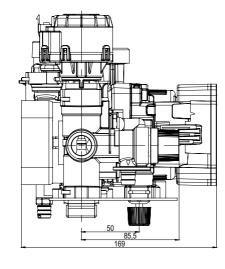
Pump Connection:



- 1 DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Filling Tap
- 6 Pressure Port (for Pressure Gauge/Sensor/Switch)
- Circulation Pump

- 8 Expansion Vessel Conn.
- 9 3 Way Valve Motor
- 10 Automatic Bypass
- 11 3 Way Valve
- 12 Safety Valve
- 13 Plate Heat Exchanger
- 14 Back Flow Preventer (EN1717 Type EA) Optional
- A Heating Delivery CH
- B Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH







^{*} Dimensions valid for a PHE width of 190mm



Combi Monothermic / Composite / Side Pump Connection



Technical Features

Material:

Plastic (PA66 GF30) + Brass (CuZn40Pb2)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

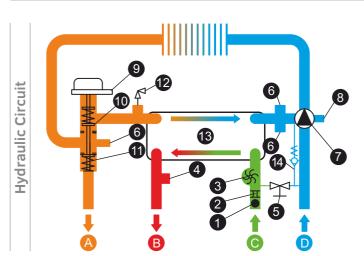
Through PHE

Pressure Relief Valve:

3 bar

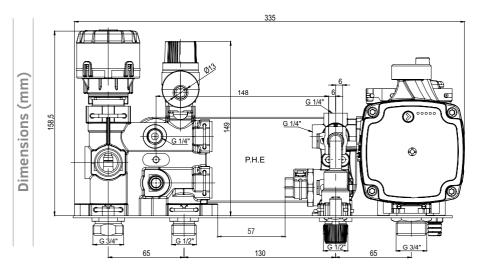
Pump Connection:

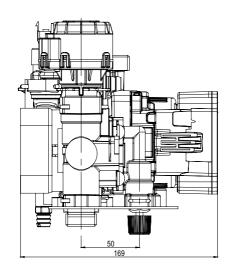
Side



- 1 DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Filling Tap
- 6 Pressure Port (for Pressure Gauge/Sensor/Switch)
- 7 Circulation Pump

- 8 Expansion Vessel Conn.
- 9 3 Way Valve Motor
- 10 Automatic Bypass
- 1 3 Way Valve
- 12 Safety Valve
- 13 Plate Heat Exchanger
- 14 Back Flow Preventer (EN1717 Type EA) Optional
- A Heating Delivery CH
- B Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH











Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

-

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

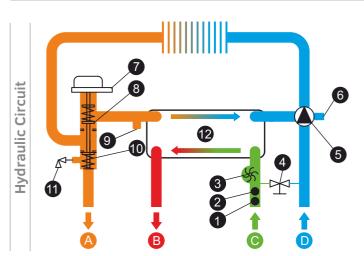
By-Pass:

Through PHE

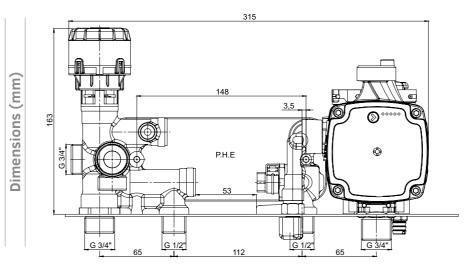
Pressure Relief Valve:

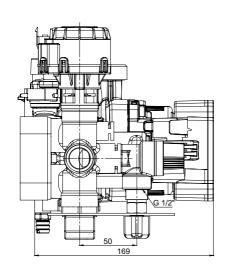
3 bar

Pump Connection:



- Plastic DHW Filter
- 2 Metal DHW Filter
- 3 Flow Sensor
- 4 Filling Tap
- 6 Circulation Pump
- 6 Expansion Vessel Conn.
- 7 3 Way Valve Motor
- 8 Automatic Bypass
- 9 Pressure Port (for Pressure Gauge/Sensor/Switch)
- 10 3 Way Valve
- 11 Safety Valve
- 12 Plate Heat Exchanger
- A Heating Delivery CH
- B Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH







^{*} Dimensions valid for a PHE width of 190mm



Combi Monothermic / Brass / Side Pump Connection



Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

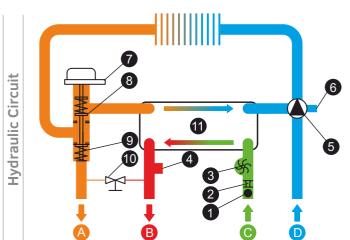
Through PHE

Pressure Relief Valve:

3 bar

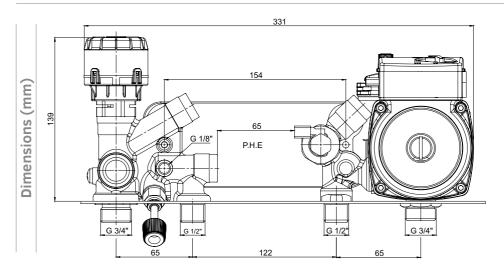
Pump Connection:

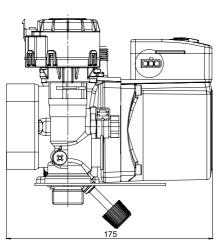
Side



- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Circulation Pump
- 6 Expansion Vessel Conn.
- 3 Way Valve Motor
- 8 Automatic Bypass
- 9 3 Way Valve
- 10 Filling Tap
- 11 Plate Heat Exchanger

- A Heating Delivery CH
- B Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH











Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

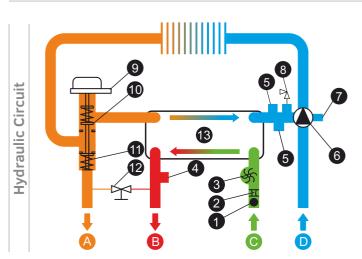
By-Pass:

Through PHE

Pressure Relief Valve:

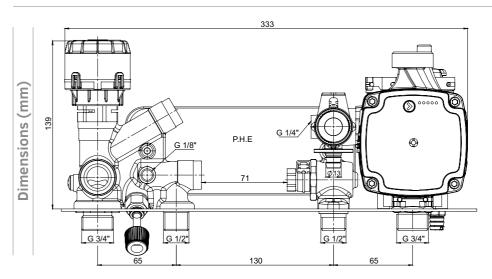
3 bar

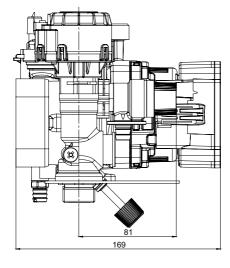
Pump Connection:



- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Pressure Port (for Pressure Gauge/Sensor/Switch)
- 6 Circulation Pump
- 7 Expansion Vessel Conn.

- 8 Safety Valve
- 9 3 Way Valve Motor
- 10 Automatic Bypass
- 11 3 Way Valve
- 12 Filling Tap
- 13 Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH







^{*} Dimensions valid for a PHE width of 190mm

HB-128



Combi Monothermic / Composite / Side Pump Connection



Technical Features

Material:

Plastic (PA66 GF30) + Brass (CuZn40Pb2)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

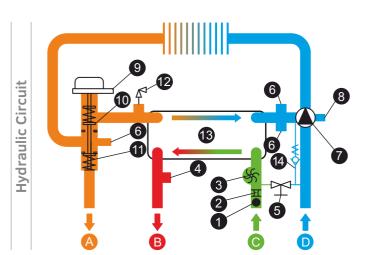
Through PHE

Pressure Relief Valve:

3 bar

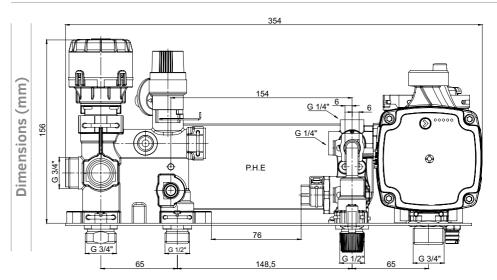
Pump Connection:

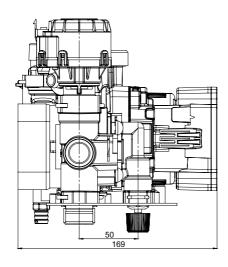
Side



- 1 DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Filling Tap
- 6 Pressure Port (for Pressure Gauge/Sensor/Switch)
- 7 Circulation Pump

- 8 Expansion Vessel Conn.
- 9 3 Way Valve Motor
- 10 Automatic Bypass
- 1 3 Way Valve
- 12 Safety Valve
- 13 Plate Heat Exchanger
- 14 Back Flow Preventer (EN1717 Type EA) Optional
- A Heating Delivery CH
- B Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH





* Dimensions valid for a PHE width of 190mm





Combi Monothermic / Brass / Side Pump Connection



Technical Features

Material:

Plastic (PA66 GF30) + Brass (CuZn40Pb2)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

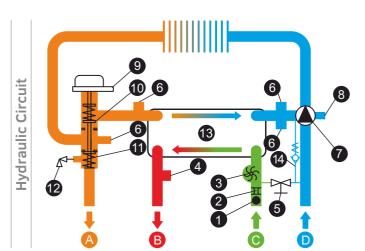
By-Pass:

Through PHE

Pressure Relief Valve:

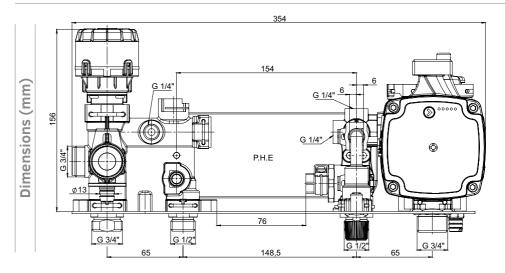
3 bar

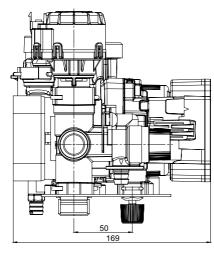
Pump Connection:



- 1 DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 5 Filling Tap
- 6 Pressure Port (for Pressure Gauge/Sensor/Switch)
- 7 Circulation Pump

- 8 Expansion Vessel Conn.
- 9 3 Way Valve Motor
- 10 Automatic Bypass
- 1 3 Way Valve
- 12 Safety Valve
- 13 Plate Heat Exchanger
- 14 Back Flow Preventer (EN1717 Type EA) Optional
- A Heating Delivery CH
- B Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH





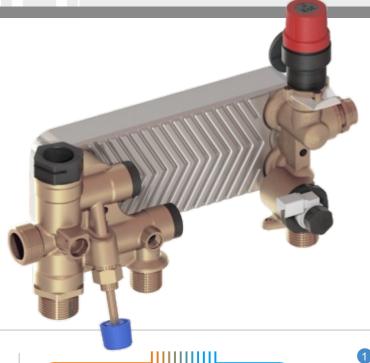


^{*} Dimensions valid for a PHE widht of 190mm

HB-130







Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

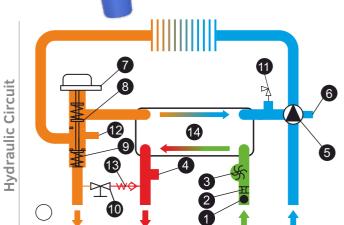
Through PHE

Pressure Relief Valve:

3 bar

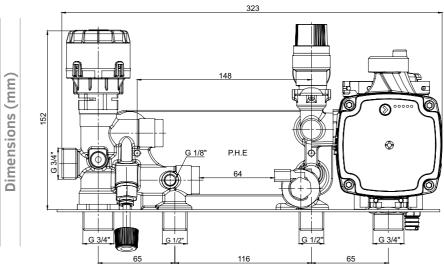
Pump Connection:

Side

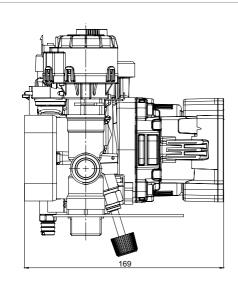


- DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 NTC Sensor Connection
- 6 Circulation Pump
- 6 Expansion Vessel Conn.
- 7 3 Way Valve Motor

- 8 Automatic Bypass
- 9 3 Way Valve
- 10 Filling Tap
- 11 Safety Valve
- Pressure Port (for Pressure Gauge/Sensor/Switch)
- 13 Back Flow Preventer (EN1717 Type EA) Optional
- 14 Plate Heat Exchanger
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH



O



* Dimensions valid for a PHE width of 190mm









COMBI BITHERMIC



Combi Bithermic / Brass / Side Pump Connection



Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

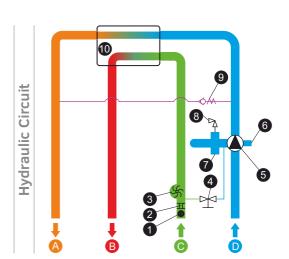
By-Pass:

External

Pressure Relief Valve:

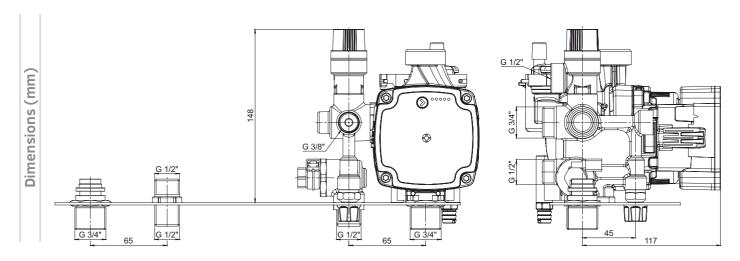
3 bar

Pump Connection:



- 1 DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 Filling Tap
- 6 Circulation Pump
- 6 Expansion Vessel Connection
- Pressure Port (for Pressure Gauge/Sensor/Switch)
- 8 Safety Valve 9 Bypass
- 10 Main Exchanger

- A Heating Delivery CH
- B Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH



HB-202



B

Combi Bithermic / Brass / Side Pump Connection



Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

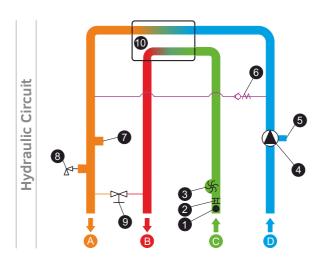
By-Pass:

External

Pressure Relief Valve:

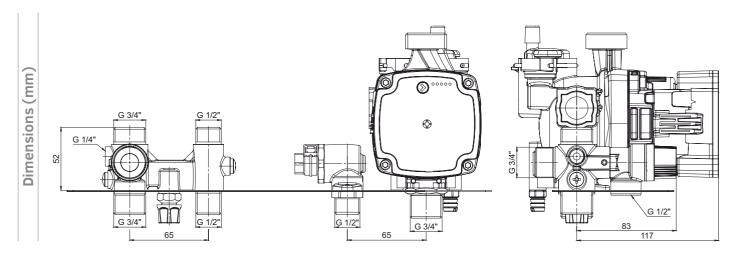
3 bar

Pump Connection:



- 1 DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 Circulation Pump
- 5 Expansion Vessel Connection
- 6 Bypass
- 7 Pressure Port (for Pressure Gauge/Sensor/Switch)
- 8 Safety Valve
- 9 Filling Tap
- 10 Main Exchanger

- A Heating Delivery CH
- B Sanitary Water Outlet DW
- C Sanitary Water Inlet DW
- D Heating Return CH







B

Combi Bithermic / Brass / Front Pump Connection



Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

6 to 22 (lt./min.)

Flow Detection:

Turbine Type Flowmeter with Hall Effect Sensor

By-Pass:

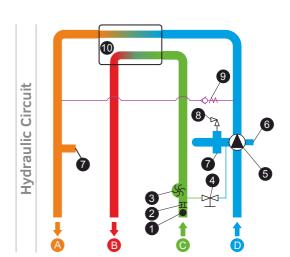
External

Pressure Relief Valve:

3 bar

Pump Connection:

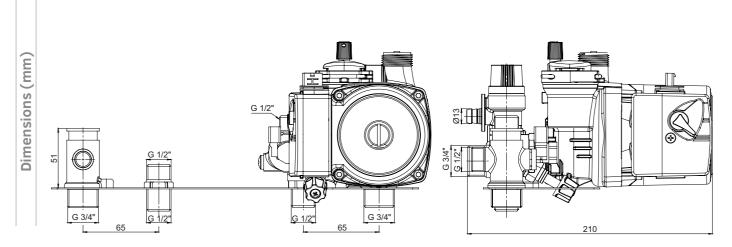
Front



- 1 DHW Filter
- 2 Flow Regulator
- 3 Flow Sensor
- 4 Filling Tap
- 5 Circulation Pump
- 6 Expansion Vessel Connection
- 7 Pressure Port (for Pressure Gauge/Sensor/Switch)
- A Heating Delivery CH
- **B** Sanitary Water Outlet DW

- 8 Safety Valve
- 9 Bypass
- 10 Main Exchanger

- Sanitary Water Inlet DW
- D Heating Return CH



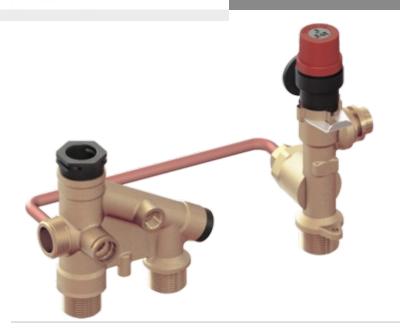




STORAGE TYPE



Storage Type / Brass / Side Pump Connection



Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

_

Flow Detection:

_

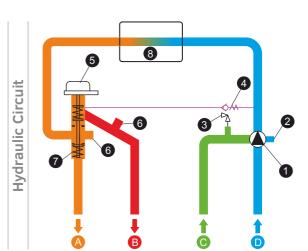
By-Pass:

External

Pressure Relief Valve:

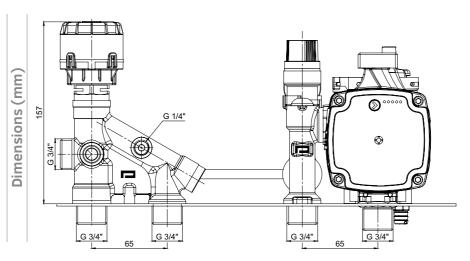
3 bar (Brass or Plastic)

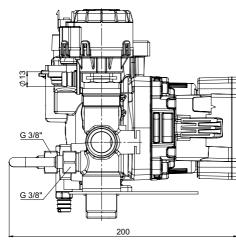
Pump Connection:



- 1 Circulation Pump
- 2 Expansion Vessel Connection
- 3 Safety Valve
- 4 Bypass
- 5 3 Way Valve Motor
- 6 Pressure Port (for Pressure Gauge/Sensor/Switch)
- 3 Way Valve
- 8 Main Exchanger

- A Heating Delivery CH
- B Storage Delivery
- C Storage Return
- D Heating Return CH





HB-302



Storage Type / Brass / Side Pump Connection



Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

_

Flow Detection:

_

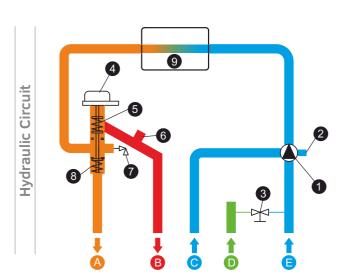
By-Pass:

-

Pressure Relief Valve:

3 bar

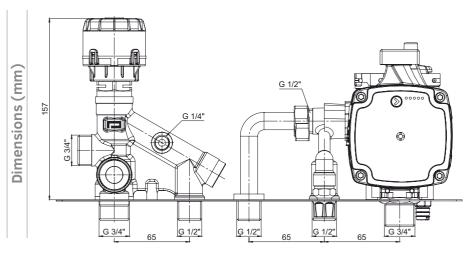
Pump Connection:

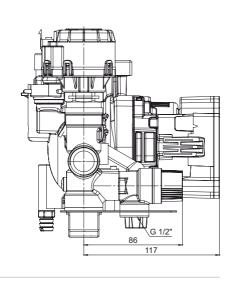


- 1 Circulation Pump
- 2 Expansion Vessel Connection
- 3 Filling Tap
- 4 3 Way Valve Motor
- 5 Automatic Bypass
- 6 Pressure Port (for Pressure Gauge/Sensor/Switch)
- Safety Valve
- A Heating Delivery CH
- **B** Storage Delivery
- C Storage Return

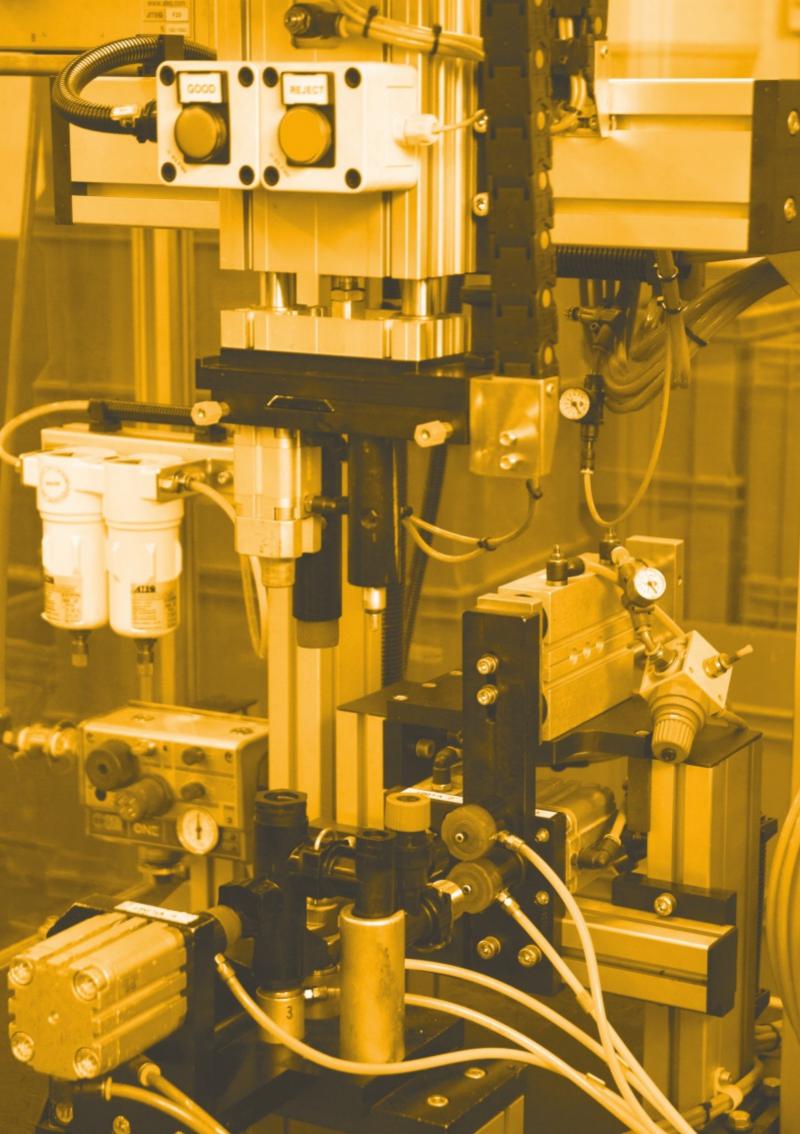
- 8 3 Way Valve
- Main Exchanger

- D Domestic Water Inlet
- **E** Heating Return CH













HEATING ONLY



Heating Only / Brass / Side Pump Connection



Technical Features

Material:

CuZn40Pb2 (CW617N)

Flow Regulator:

-

Flow Detection:

_

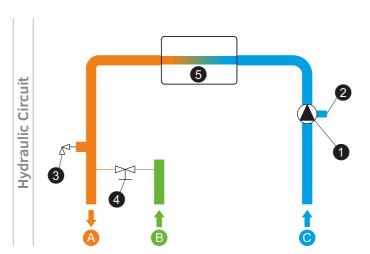
By-Pass:

-

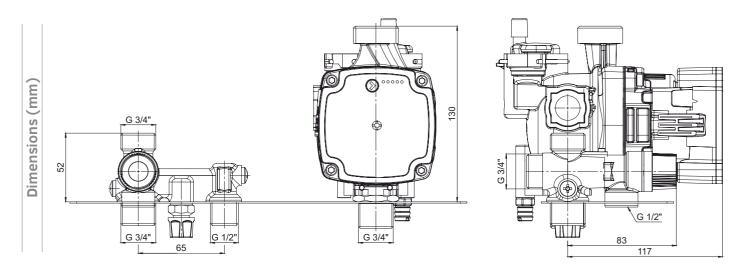
Pressure Relief Valve:

3 bar

Pump Connection:



- 1 Circulation Pump
- 2 Expansion Vessel Connection
- 3 Safety Valve
- 4 Filling Tap
- Main Exchanger
- A Heating Delivery CH
- **B** Domestic Water Inlet
- C Heating Return CH







HYDRAULIC ACCESSORIES



Radial Turbine Type with Hall Effect Sensor



Technical Features

Ambient Temperature: 2°C to 70°C

Water Temperature: 2°C to +70°C, peak 85°C

Water Pressure: 0 bar to 10 bar

Hydraulic Interfaces: G 1/2"

Flow Detection: Hall Effect Sensor

Pressure Drop @ 10 L/min: 184 mbar [Kv Factor ~1.4]

Working Position : Vertical / Horizontal

Power Supply: 12 VDC, 3÷6mA

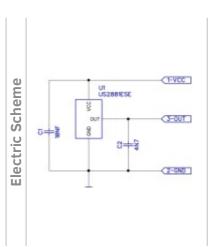
Electric Connections: Rast 2.5 (3 Way)

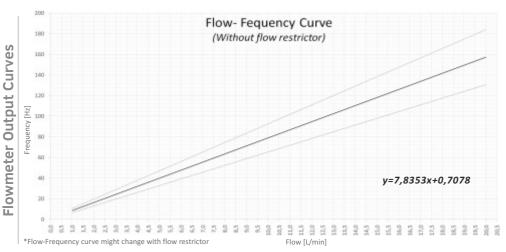
Approvals: WRAS Compliant

Others:

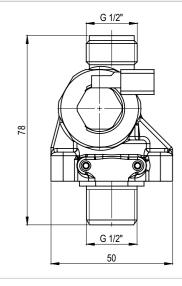
Flow Restrictor (6 to 22 I/min on request)

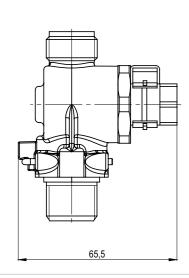
Integrated Plastic Filter as standard Optional: metallic filter













Pressure Relief Valve

PRV-100 Series



Knob Type PRV with Brass Body



Technical Features

Body Material : CuZn40Pb2 (CW617N)

Nominal Size: DN15

Pressure Class: PN10

Pressure Range: 2-6 bar

Sealing Material: EPDM

Approvals: EN4126-1 (CA





PRV-101 Male Thread Type	PRV-102 Thread & Oring Type	PRV-103 Quick Connection Type
or o	CE COSTS	acid arms
R 1/2" 27	017.5 G 1/2" 27	20 27 27 27 27 27 27 27 27 27 27 27 27 27



Pressure Relief Valve **PRV-200 Series**

Knob Type PRV with Plastic Body



Technical Features

Body Material: Plastic (PA66 GF30)

Nominal Size: DN8

Pressure Class: PN10

Pressure Range: 2-6 bar

Sealing Material: EPDM

Approvals: EN4126-1 (CA



Quick Connection Type	Quick Connection Type with Hose Connection	Quick Connection Type
68 26 172"	Z 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	02
		with Hose Connection

FR-100 Series





Technical Features

Material: POM & Peroxide EPDM

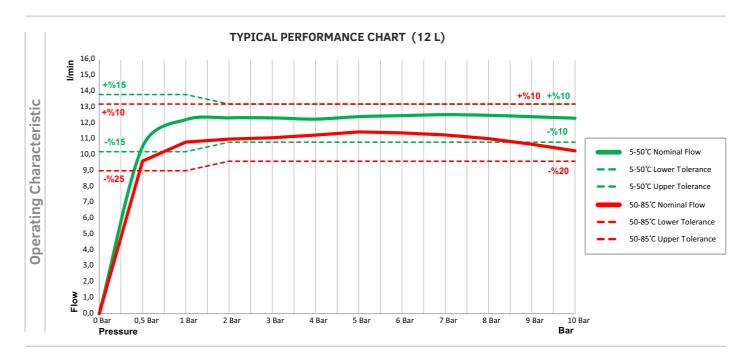
Operating Pressure: 0,5-10 bar

Max. Pressure: 15 bar

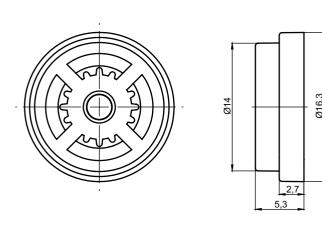
Operating Temperature: +2..85°C

Storage Temperature: -20..85°C

Approvals : ♦WRAS







Flow Rate	Colour
6 l/min	Black
7 l/min	Green
8 l/min	White
9 l/min	Orange
10 l/min	Light Blue
11 l/min	Yellow
12 l/min	Red
13 l/min	Olive
14 l/min	Pink
15 l/min	Lime
16 l/min	Dark Blue
17 l/min	Brown
18 l/min	Grey
19 l/min	Black
22 l/min	Lilac

Product Table





Check Valve CV-100 Series



Technical Features

Body Material: POM

Sealing Material: Peroxide EPDM

Spring Material: SS 302

Pressure Range: 0,1-480 mbar

Max. Operating Temperature: 65°C

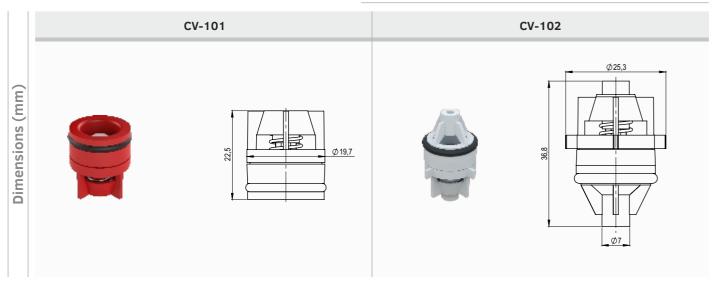
Peak Temperature: 1h at 95 °C

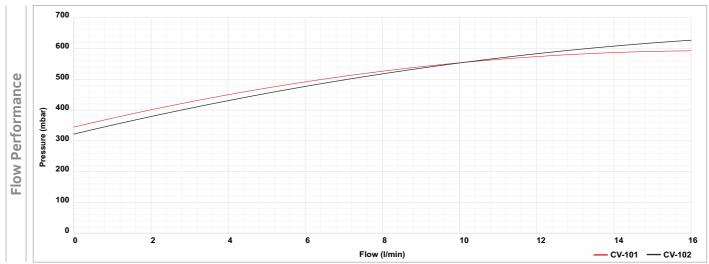
Applications:

Bypass

Back Flow Preventer (EN 1717 Type EA)

Approvals : **WRAS**





Central Heating Filter

CHF-101





Technical Features

Body Material: PA66 GF30

Sealing Material : Peroxide EPDM

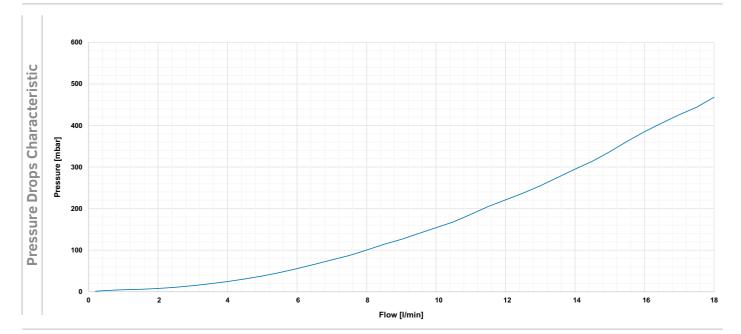
Operating Pressure: 2 bar

Max. Pressure: 5 bar

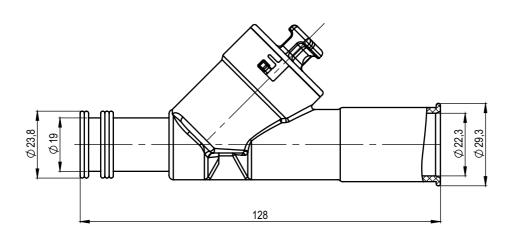
Operating Temperature: +2..85°C

Storage Temperature: -20..85°C

Approvals: **WRAS**











Pressure Gauge PG-100 Series

2 and 4 depth of the second of

Technical Features

Body Material: Plastic (ABS)

Window Material: Plastic (PMMA)

Dial Material: Plastic (ABS)

Pointer Material: Plastic (ABS)

Capillary: PVC coated copper

Process Connection: Brass (CW617N)

Gauge Size: Ø40

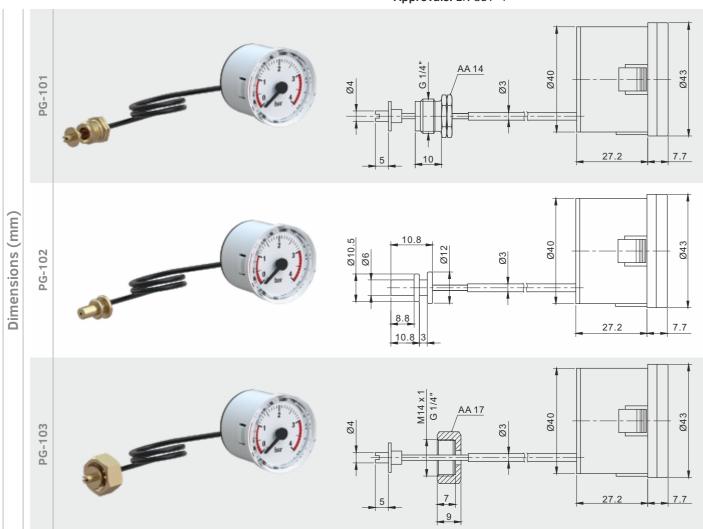
Measurement Ranges: 0/4....0/6....0/10 bar

Accuracy Class: Cl 2.5

Working Temperature Range: -20°C....60°C

Ingress Protection Rate: IP31

Approvals: EN 837-1



NTC-100 & 200 Series





Technical Features

Body Material: CW625N or Stainless Steel

Sealing Material: Peroxide EPDM

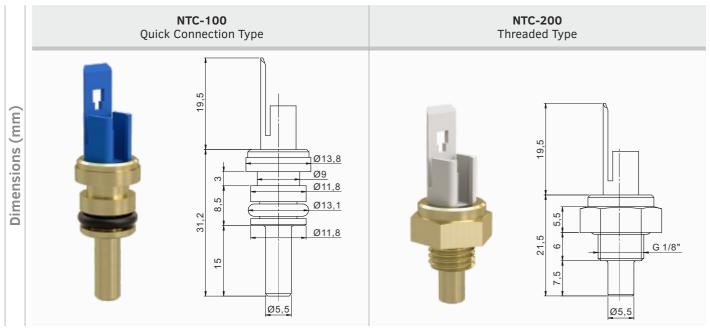
Temperature Range: -40...+125°C

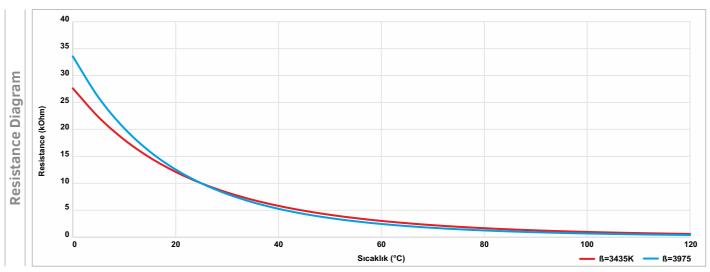
Ambient Temperature: -20...+70°C

2 Type of β Options: 3435 & 3975 $\pm1\%$ K

Resistance at 25°C: 10kOHM ±1%

Approvals : ♦WRAS











VALVE SETS



Straight Valve Set / External Filling System Compatible



Technical Features

Material:

CuZn40Pb2 (CW617N)

Nominal Size:

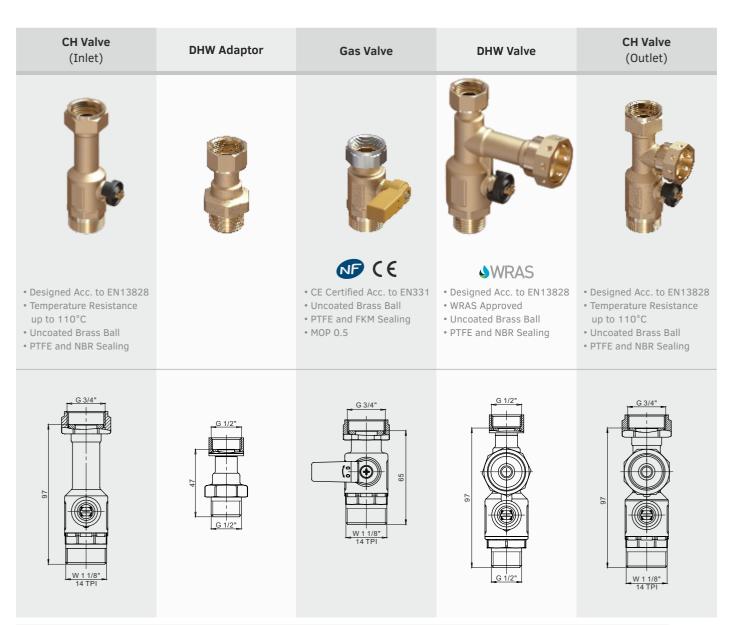
DN15

Connection Type:

Nut-Thread

Other:

External Filling System Compatible



PAKKENS[®]

Corner Valve Set / External Filling System Compatible



Technical Features

Material:

CuZn40Pb2 (CW617N)

Nominal Size:

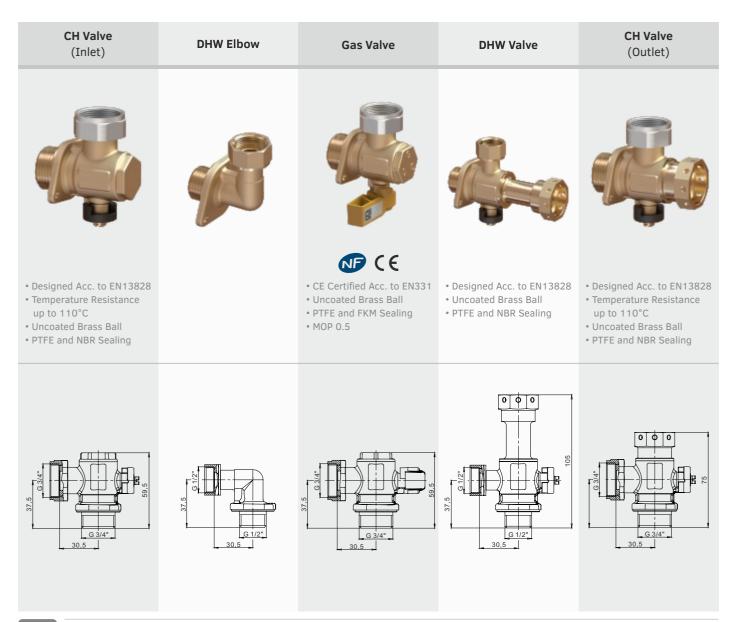
DN15

Connection Type:

Nut-Thread

Other:

External Filling System Compatible





Corner Valve Set



Technical Features

Material:

CuZn40Pb2 (CW617N)

Nominal Size:

DN15

Connection Type:

Nut-Thread

CH Valve (Inlet)	DHW Elbow	Gas Valve	DHW Valve	CH Valve (Outlet)
 Designed Acc. to EN13828 Temperature Resistance up to 110°C Uncoated Brass Ball PTFE and NBR Sealing 		• CE Certified Acc. to EN331 • Uncoated Brass Ball • PTFE and FKM Sealing • MOP 0.5	• Designed Acc. to EN13828 • WRAS Approved • Uncoated Brass Ball • PTFE and NBR Sealing	 Designed Acc. to EN13828 Temperature Resistance up to 110°C Uncoated Brass Ball PTFE and NBR Sealing
30.5	30.5 30.5	9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	30,5	30,5

VS-104



Corner Valve Set / Nickel Coated



Technical Features

Material:

CuZn40Pb2 (CW617N)

Nominal Size:

DN15

Connection Type:

Nut-Thread

Other:

Nickel Coated

With CH Filter

CH Valve (Inlet)	DHW Elbow	Gas Valve	DHW Valve	CH Valve (Outlet)
 Designed Acc. to EN13828 Temperature Resistance up to 110°C Chrome Coated Brass Ball PTFE and NBR Sealing 		Designed Acc. to EN331 Chrome Coated Brass Ball PTFE and FKM Sealing MOP 0.5	Designed Acc. to EN13828 Chrome Coated Brass Ball PTFE and NBR Sealing	 Designed Acc. to EN13828 Temperature Resistance up to 110°C Chrome Coated Brass Ball PTFE and NBR Sealing
37,5	30 915 30 915	37,5	32.5 32.5 32.5 32.5 32.5 32.5 32.5 32.5	17 (C)











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