



**HomeBloC® Basic**  
Flat stations



## PAW flat stations HomeBloC® Basic

Catalogue 01/2024

Decentralised domestic hot water preparation  
and comfortable heat supply

Valid for the EU



# Flat stations for decentralised domestic hot water preparation and comfortable heat supply

## Choose your individual station!

### Flat stations - refined versatility

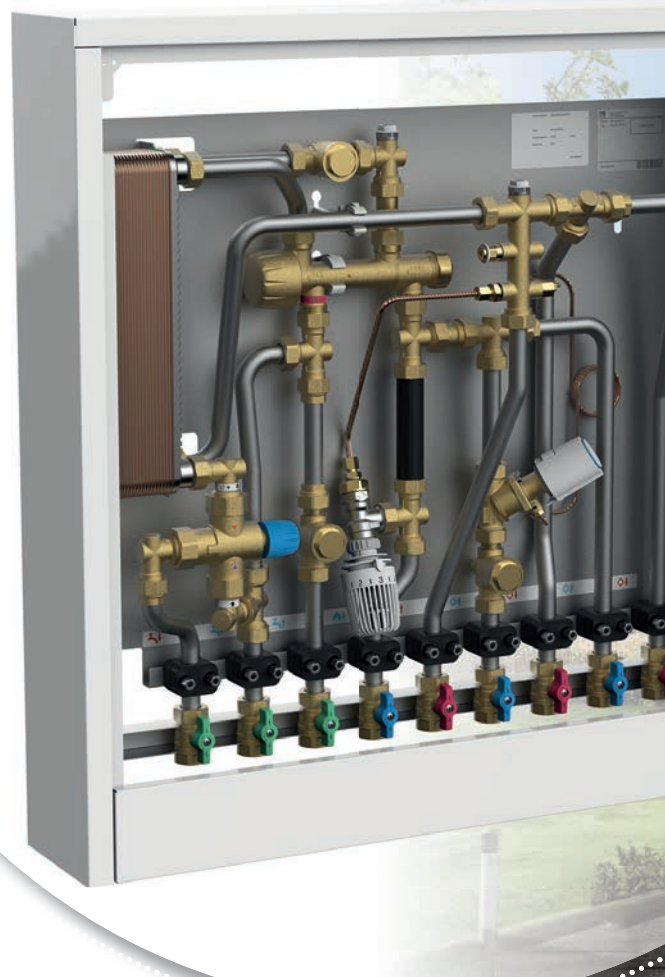
- For optimal distribution of energy for heating
- Concurrent or dedicated hot water preparation and/or heat according to your need
- Billing proportional to the consumption of each flat due to installation of your cold water and heat flowmeter

### Flat stations - flexible and individual

- Modular system allows you to make adjustments to the station according to need
- Flexibility in planning and dimensioning
- Flat station fine-tuned to your needs
- Perfect integration into your living ambience

### Flat stations - installation and comfort

- Completely premounted and pressure tested station
- Can be mounted quickly and with minimal effort
- Low costs due to quick and error-free mounting on site



## Special features flat stations:

- ✓ Optimal energy utilisation due to powerful heat exchangers
- ✓ For low-temperature systems, e.g. heat pumps
- ✓ Large withdrawal flow rate
- ✓ Minimal pressure losses
- ✓ Premounted and pressure tested unit
- ✓ Construction depth (110 mm) ideally suitable for the installation in partition walls
- ✓ Fully equipped for connecting measurement technology
- ✓ Comfortable and fast installation
- ✓ For new building or restructuring
- ✓ Individual adjustment to your demands is possible!
- ✓ Highly efficient combined with a PAW HeatBloC® MCom

**energy-efficient  
comfortable  
compact**





**For further information see  
[www.paw.eu](http://www.paw.eu)**

Or simply scan the code!



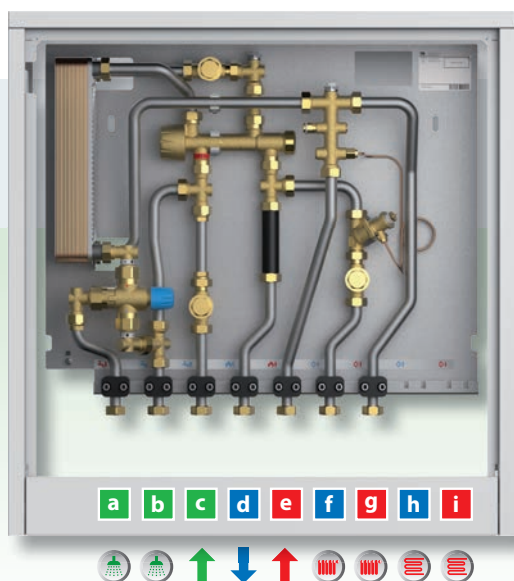
# PAW flat stations HomeBloC® Basic – great diversity according to your needs

The PAW HomeBloC® Basic is offered in **three basic versions WR, WF and WRF** which differ in their equipment features for the heating circuits to supply. **WR** stands for hot water and radiator circuit, **WF** stands for hot water and floor heating and **WRF** combines hot water, radiator and floor heating.










You may find a corresponding symbol for each version on the corresponding page and in the legend (see below).

All stations are operated with a hydromechanical-thermal control by means of a proportional quantity controller.

The DHW temperature can be reduced via a service water mixing valve to a user-defined temperature. Each module can be adjusted either to the version of the heat exchanger or to the heating and output capacity.



## Connection example full equipment:

-  **a** Domestic hot water
-  **b** Domestic cold water
-  **c** Cold water inlet
-  **d** Heating water return
-  **e** Heating water flow
-  **f** Radiator circuit return
-  **g** Radiator circuit flow
-  **h** Radiant floor circuit return (opt.)
-  **i** Radiant floor circuit flow (opt.)

## HomeBloC® Basic WR: Radiator circuit (unmixed)

The HomeBloC® Basic version **WR** is designed to supply an unmixed circuit.








The temperature in the flow is heated via the mixed heating circuit in the basement to the desired level and directly provided to the circuit of the HomeBloC® Basic.

This temperature can be directly used for space heating without being reduced by the flat station. A differential pressure valve avoids whistling noises and hydraulic problems.

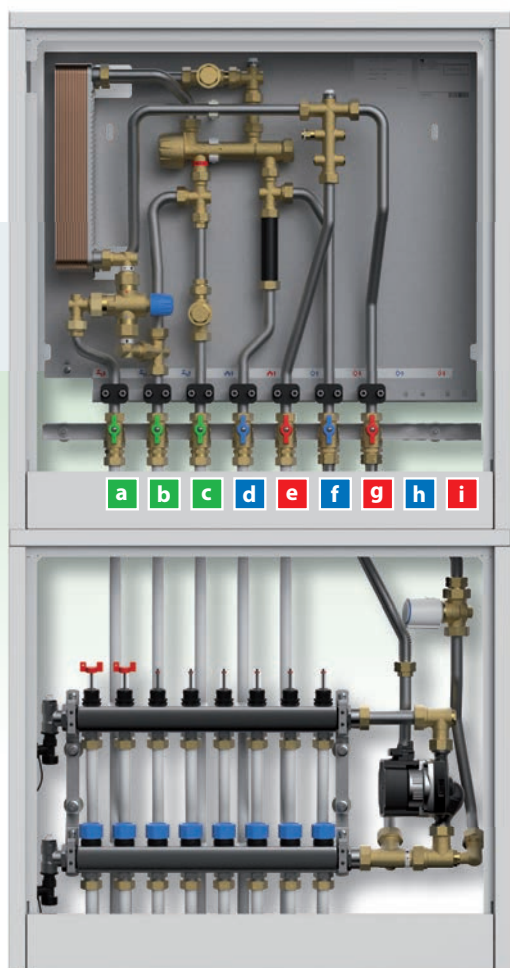
### Application example:

A property has one or various radiator circuits. The HomeBloC® Basic **WR** version suits perfectly for this application. The flow temperature can be provided directly from the radiator to the space heating. Improper differential pressure for thermostatic valves can be reduced easily by means of the differential pressure valve.

### Legend:

-   **WR:** Hot water + radiator circuit
-   **WF:** Hot water + radiant floor circuit
-    **WRF:** Hot water + radiator and radiant floor circuit





## HomeBloC® Basic WF: Radiant floor circuit (mixed)

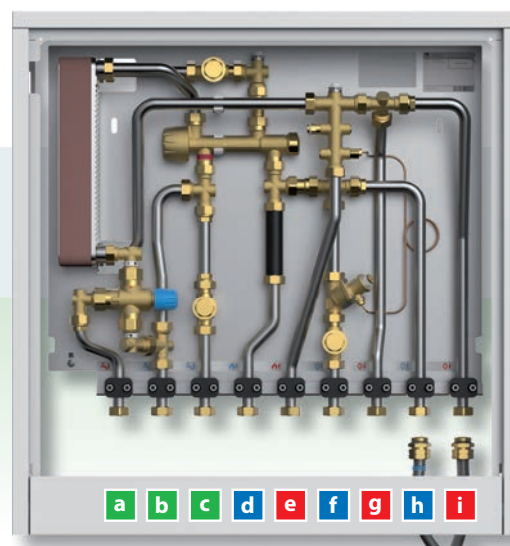


The HomeBloC® Basic version **WF** is designed to supply a mixed heating circuit. The temperature in the flow is provided via the mixed or unmixed heating circuit in the basement to the the HomeBloC® Basic. The temperature there is reduced by means of an injection-type circuit and is provided to the radiant floor circuit. The injection-type circuit can be ordered separately.

### Application example:

A residential property has one or various radiant floor circuits. The HomeBloC® Basic **WF** version is perfectly suited for this application. By means of an injection-type circuit, the flow temperature can be mixed precisely to the temperature level required for the radiant floor heating.

This temperature is provided to the corresponding rooms via a floor distribution manifold.



## HomeBloC® Basic WRF: Radiator circuit and radiant floor circuit (mixed + unmixed)



The HomeBloC® Basic **WRF** combines both heating circuits of the WR and WF versions.

This allows either the radiator circuit or the radiant floor circuit to be operated at the same time. Both functionalities are thus combined in one module.



<b>Application range</b>	<b>for residential properties with one or various radiator circuits</b>	
<b>Max. operating pressure</b>	Operating pressure: domestic hot water	max. 10 bar
	Operating pressure: heating system	max. 2.5 bar
<b>Operating temperature</b>	Operating temperature: domestic hot water	max. 65 °C
	Operating temperature: heating system	max. 85 °C
<b>Output</b>	Output capacity (10 ->45°C)	12 l/min (≅ 30 kW); 16 l/min (≅ 40 kW); 20 l/min (≅ 49 kW)
	Heating capacity	8.5 kW (when ΔT = 15 K)

### Technical data

Connections		Dimensions	
Domestic hot water supply	3 x ¾" int. thread (flat-sealing and self-sealing)	Base plate station	W = 660 mm, H = 555 mm, D = 100 mm
Heat supply	2 x ¾" int. thread (flat-sealing and self-sealing)	Flush-mounted cupboard	W = 750 mm, H = 685 mm, D = 10 mm
Heating circuit outlets	2 x ¾" int. thread (flat-sealing and self-sealing)	Cover frame (flush-mounted cupboard)	W = 750 mm, H = 555 mm, D = 110 mm
<b>Materials</b>		Wall-mounted cupboard	W = 750 mm, H = 555 mm, D = 150 mm
Base plate / Flush-mounted cupboard	zinc-galvanised steel sheet	Total dimensions cupboard for station + floor distribution manifold	W = 750 mm, H = 1,436 mm
Cover frame, door, base cover	Steel sheets, powder-coated, white (RAL 9016)	Adjustment range of the base	0 - 80 mm
Ball valves, valves and fittings: Domestic hot water circuit	Brass, approved for potable water		
Ball valves, valves and fittings: Heating circuit	Brass, approved for potable water		
Pipes	Stainless steel (1.4401), approved for potable water		
Gaskets	Fibre composite / EPDM / Teflon		
Heat exchanger	Standard: Copper solder; Stainless steel plates more heat exchanger designs: see order table		

### PAW-HomeBloC® Basic WR - Radiator circuit (unmixed)

Heat exchanger	Volume flow limiter*	Item no.
24 plates, copper solder	12 l/min	120317101
24 plates, coated	12 l/min	120347101
32 plates, copper solder	16 l/min	120427101
32 plates, coated	16 l/min	120457101
50 plates, copper solder	20 l/min	120537101
50 plates, full stainless steel	20 l/min	120567101



<b>Application range</b>	<b>for residential properties with one or various radiant floor circuits</b>	
<b>Max. operating pressure</b>	Operating pressure: domestic hot water	max. 10 bar
	Operating pressure: heating system	max. 2.5 bar
<b>Operating temperature</b>	Operating temperature: heating system	max. 85 °C
	Operating temperature: domestic hot water	max. 65 °C
<b>Output</b>	Output capacity (10 ->45°C)	12 l/min (≈ 30 kW); 16 l/min (≈ 40 kW); 20 l/min (≈ 49 kW)
	Heating capacity	8.5 kW (when ΔT = 15 K)

Technical data			
Connections		Dimensions	
Domestic hot water supply	3 x ¾" int. thread (flat-sealing and self-sealing)	Base plate station	W = 660 mm, H = 555 mm, D = 100 mm
Heat supply	2 x ¾" int. thread (flat-sealing and self-sealing)	Flush-mounted cupboard	W = 750 mm, H = 685 mm, D = 10 mm
Heating circuit outlets	2 x ¾" int. thread (flat-sealing and self-sealing)	Cover frame (flush-mounted cupboard)	W = 750 mm, H = 555 mm, D = 110 mm
<b>Materials</b>		Wall-mounted cupboard	W = 750 mm, H = 555 mm, D = 150 mm
Base plate / Flush-mounted cupboard	zinc-galvanised steel sheet	Total dimensions cupboard for station + floor distribution manifold	W = 750 mm, H = 1,436 mm
Cover frame, door, base cover	Steel sheets, powder-coated, white (RAL 9016)	Adjustment range of the base	0 - 80 mm
Ball valves, valves and fittings: Domestic hot water circuit	Brass, approved for potable water		
Ball valves, valves and fittings: Heating circuit	Brass, approved for potable water		
Pipes	Stainless steel (1.4401), approved for potable water		
Gaskets	Fibre composite / EPDM / Teflon		
Heat exchanger	Standard: Copper solder; Stainless steel plates more heat exchanger designs: see order table		

### PAW-HomeBloC® Basic WF - Radiant floor circuit (mixed)

Heat exchanger	Volume flow limiter*	Item no.
24 plates, copper solder	12 l/min	120319101
24 plates, coated	12 l/min	120349101
32 plates, copper solder	16 l/min	120429101
32 plates, coated	16 l/min	120459101
50 plates, copper solder	20 l/min	120539101
50 plates, full stainless steel	20 l/min	120569101

Injection-type circuit for the radiant floor circuit	1285501102
Connections: 2x 1"int. thread x 2x ¾"ext.thread, GF UPM3 Auto L 15-70, mandatory for floor distribution manifold	



<b>Application range</b>	<b>for residential properties with radiator circuits or the radiant floor circuits operated at the same time</b>	
<b>Max. operating pressure</b>	Operating pressure: domestic hot water	max. 10 bar
	Operating pressure: heating system	max. 2.5 bar
<b>Operating temperature</b>	Operating temperature: heating system	max. 85 °C
	Operating temperature: domestic hot water	max. 65 °C
<b>Output</b>	Output capacity (10 ->45°C)	12 l/min (≈ 30 kW); 16 l/min (≈ 40 kW); 20 l/min (≈ 49 kW)
	Heating capacity	8.5 kW (when ΔT = 15 K)

Technical data			
Connections		Dimensions	
Domestic hot water supply	3 x ¾" int. thread (flat-sealing and self-sealing)	Base plate station	W = 660 mm, H = 555 mm, D = 100 mm
Heat supply	2 x ¾" int. thread (flat-sealing and self-sealing)	Flush-mounted cupboard	W = 750 mm, H = 685 mm, D = 10 mm
Heating circuit outlets	2 x ¾" int. thread (flat-sealing and self-sealing)	Cover frame (flush-mounted cupboard)	W = 750 mm, H = 555 mm, D = 110 mm
<b>Materials</b>		Wall-mounted cupboard	W = 750 mm, H = 555 mm, D = 150 mm
Base plate / Flush-mounted cupboard	zinc-galvanised steel sheet	Total dimensions cupboard for station + floor distribution manifold	W = 750 mm, H = 1,436 mm
Cover frame, door, base cover	Steel sheets, powder-coated, white (RAL 9016)	Adjustment range of the base	0 - 80 mm
Ball valves, valves and fittings: Domestic hot water circuit	Brass, approved for potable water		
Ball valves, valves and fittings: Heating circuit	Brass, approved for potable water		
Pipes	Stainless steel (1.4401), approved for potable water		
Gaskets	Fibre composite / EPDM / Teflon		
Heat exchanger	Standard: Copper solder; Stainless steel plates more heat exchanger designs: see order table		

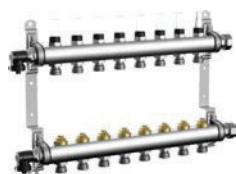
### PAW-HomeBloC® Basic WRF - Radiator circuit and radiant floor circuit (mixed + unmixed)

Heat exchanger	Volume flow limiter*	Item no.
24 plates, copper solder	12 l/min	120318101
24 plates, coated	12 l/min	120348101
32 plates, copper solder	16 l/min	120428101
32 plates, coated	16 l/min	120458101
50 plates, copper solder	20 l/min	120538101
50 plates, full stainless steel	20 l/min	120568101

Injection-type circuit for the radiant floor circuit	1285501102
Connections: 2x 1"int. thread x 2x ¾"ext.thread, GF UPM3 Auto L 15-70, mandatory for floor distribution manifold	



	<b>7 ball valves with mounting rail</b>	<b>1280207101</b>
	<b>7 ball valves without mounting rail</b>	<b>1280107101</b>
	<b>9 ball valves with mounting rail</b>	<b>1280209101</b>
	<b>9 ball valves without mounting rail</b>  To shut off the lines during commissioning and maintenance. Marked in colour for easy assignment, DVGW approved, connection side G $\frac{3}{4}$ " internal thread. Including covering caps to avoid contamination of the ball valves until installation of the station.  The ball valves can be ordered with or without mounting rail. When using the mounting rail, the ball valves are mounted to the wall even before the installation of the station. Thus, all pipes can be connected and the system may be set under pressure.	<b>1280109101</b>
	<b>Thermal heat retaining</b>  By using the thermal heat retaining, it is possible to achieve a higher hot water convenience during summer operation (no heating operation). The bypass between the heating flow and return maintains the line of the HomeBloC® Basic warm, hot domestic water can thus be quickly prepared.	<b>1280301101</b>
	<b>Pressure-dependent heat retaining</b>  Pressure-dependent heat retaining for the installation in a HomeBloC® for a higher water convenience during summer operation  Pipe set $\frac{3}{4}$ " union nut overflow valve 350 mbar polyamide hose 6 mm, up to 6.5 bar	<b>1280303101</b>
	<b>Flush-mounted cupboard station</b>	<b>1282001101</b>
	<b>Wall-mounted cupboard station</b>  For mounting the station, powder-coated in RAL 9016, coin-operated lock for opening the cover. Flush-mounted version with 110 mm installation depth, height-adjustable, ideal for partition walls.  Wall-mounted version with 150 mm installation depth, also height-adjustable.  Insulation on request.	<b>1282101101</b>
	<b>Flush-mounted cupboard floor distribution manifold</b>	<b>1282601101</b>
	<b>Wall-mounted cupboard floor distribution manifold</b>  For mounting the floor distribution manifold, powder-coated in RAL 9016, coin-operated lock for opening the cover. Flush-mounted version with 110 mm installation depth, height-adjustable, ideal for partition walls.  Wall-mounted version with 150 mm installation depth, also height-adjustable.  Insulation on request.	<b>1286101101</b>



## Floor distribution manifold 2-fold

1285002101

## Floor distribution manifold 3-fold

1285003101

## Floor distribution manifold 4-fold

1285004101

## Floor distribution manifold 5-fold

1285005101

## Floor distribution manifold 6-fold

1285006101

## Floor distribution manifold 7-fold

1285007101

## Floor distribution manifold 8-fold

1285008101

The PAW heating distribution manifold for radiant floor heating ensures a steady and comfortable heat distribution in the flat. Filling, draining and venting is easily possible. The heating distribution manifold can be mounted in a flush-mounted or a wall-mounted cupboard.

The floor distribution manifold is available from a 2-fold version up to a 8-fold version. For the versions WF and WRF, the injection-type circuit is mandatory.

Connections: 3/4" ext. thread Eurocone



## Thermostatic head for radiant floor circuit

1288602101

Thermostatic head with immersion sensor, for assembly with PAW injection-type circuits for floor distribution manifolds, constant temperature control 10 °C - 40 °C, without auxiliary energy



## Injection-type circuit for the radiant floor circuit

1285501102

To control the flow temperature and to ensure the supply and heat distribution in the (floor) heating circuits.

For the versions WF and WRF, this injection-type circuit is mandatory for the floor distribution manifold.



## Injection-type circuit for radiant floor circuit

1285501201

To control the flow temperature and to ensure the supply and heat distribution in the (floor) heating circuits.

For the versions WF and WRF, this injection-type circuit is mandatory for the floor distribution manifold.







## Injection-type circuit for radiant floor circuit

1285501301

To control the flow temperature and to ensure the supply and heat distribution in the (floor) heating circuits.

For the versions WF and WRF, this injection-type circuit is mandatory for the floor distribution manifold.

	<p><b>Thermoelectric actuator NC, 230 V, with connecting adapter for IMI valves or for differential pressure controller in the HomeBloC® Basic WR and HomeBloC® Basic WRF</b></p> <p>Thermoelectric actuator NC, 230 V, with connecting adapter for IMI valves or for differential pressure controller in the HomeBloC® Basic WR and HomeBloC® Basic WRF. The actuator is controlled by a 230 V standard room temperature controller with a 2-point output or a pulse width modulation. The actuator is controlled by a 230 V standard room temperature controller with a 2-point output or a pulse width modulation.</p>	<p><b>1288601101</b></p>
	<p><b>Thermoelectric actuator NC, 230 V, with connecting adapter for PAW floor distribution manifold valves</b></p> <p>Thermoelectric actuator NC, 230 V, with connecting adapter for PAW floor distribution manifold valves. The actuator is controlled by a 230 V standard room temperature controller with a 2-point output or a pulse width modulation.</p>	<p><b>1288601102</b></p>
	<p><b>Thermoelectric actuator NC, 230 V, with connecting adapter for PAW injection-type circuit</b></p> <p>Thermoelectric actuator NC, 230 V, with connecting adapter for PAW injection-type circuit. The actuator is controlled by a 230 V standard room temperature controller with a 2-point output or a pulse width modulation.</p>	<p><b>1288601103</b></p>
	<p><b>Controller Alpha Basis STD Plus</b></p>	<p><b>13526001</b></p>
	<p><b>Controller Alpha Basis Comfort</b></p> <p>Connection unit for single room controls of heating and cooling systems in combination with surface temperature regulation.            Controller Alpha Basis STD Plus: Designated for the connection of up to 6 room operating units and up to 15 actuators with 230 V~ operating voltage.            Controller Alpha Basis Comfort: Designated for the connection of up to 10 room operating units and up to 18 actuators with 230 V~ operating voltage.            The power supply of the components is provided directly via the controller; minimised wiring effort.</p> <p>Features:</p> <ul style="list-style-type: none"> <li>• Signal input for temperature limitation or dew point sensor</li> <li>• Connection for an external time switch</li> <li>• Change Over connection for switching between heating and cooling</li> <li>• Controller Alpha Basis STD Plus: control of the pump</li> <li>• Controller Alpha Basis Comfort: extended control of boiler and pump, after-run time adjustable</li> <li>• Direction of operation of the actuators "zero current closed" (NC); without pump control, also "zero current open" (NO) possible</li> </ul> <p>Scope of delivery:            Wall bracket with mounting rail for an easy and direct installation in the wall-mounted or flush-mounted cupboard</p>	<p><b>13536001</b></p>