UC/FC

DESCRIPTION

Pettinaroli modular drinking water accounting unit **UC/FC** for floor distribution of centralized installation.

The Pettinaroli **UC/FC** is a perfect solution for metering and recording of hot and cold water consumption of a single apartment in a central heating system. The unit is **compact** and fully featured for drinking water supply to the flats. Moreover, the **insulating case** reduces heat losses.

Perfect **modularity** is always achieved through the dedicated manifold, equipped of O-Rings and M10 connecting screw: the

floor distribution can be adapted according to the specific requirements of each floor, adding units wherever it needs. The resulting installation is still very **compact**.

Safety is always guaranteed: the ball valves with the integrated **check valve** prevent any accidental contaminated water return into the main distribution network.

The **maintenance** is also eased: four ball valves ensure fully isolation for water meter replacement or any other operation into the flat. Each unit is **factory tested**.

The unit maximizes the benefit of centralized production of domestic hot water: energy efficiency of one hot water generator and freedom of an individual accounting system.



- Compact
- Quick installation: manifold, isolating valves, water meter set-up pipe already assembled and factory tested
- Flexible installation: the manifold can be connected on the right or on the left to the riser
- Direct coupling between manifold with O-Ring and M10 screw.
- Safe: hot water and cold water lines have a check valve each.
- Easy maintenance: 4 ball valves for isolation of the lines.
- Water meter: removable ¾" plastic sleeve, 110 mm long. The water meter can be installed just when needed
- 20 mm insulation case. Contact Fratelli Pettinaroli to know which heat meters suit the case.
- Accessories to connect the manifold to the rises:
 - Main line isolating valves;
 - o 3 pieces unions;
 - o Cap;

COMPONENTS

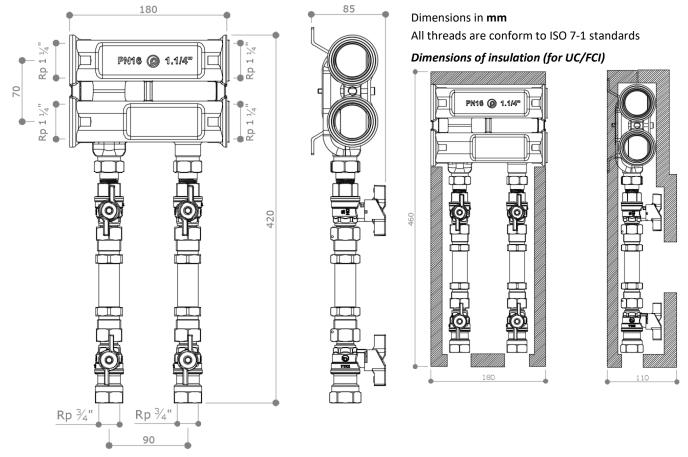
- 1 x 8090 manifold
- 2 x **52MET** ball valve (red and blue handles)
- 2 x **42MET** ball valve with integrated check valves (red and blue handles)
- 1 x plastic sleeve
- 1 x brackets to install the kit on the wall
- 1 x insulating case (for specific variations)

WATER METERS NOT INCLUDED

VARIANTIONS

UC/FC: modular hot and cold water metering unit **without** insulation **UC/FC**I: modular hot and cold water metering unit **with** insulation





MATERIALS

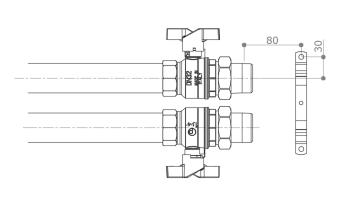
Manifold Casted brass UNI EN 1982-CB 753S

Isolating valve CW617N (EN 12165) CuZn40Pb2 T.E.A. Plus plated

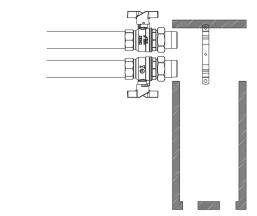
110 mm plastic pipe PA66 GF30

Unions and nuts CW617N (EN 12165) CuZn40Pb2

INSTALLATION

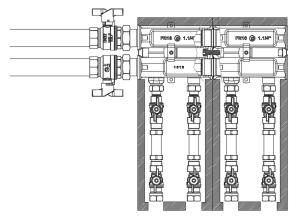


1. Fix the bracket on the wall, in the suggested position (mm)

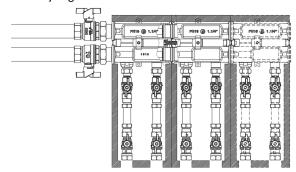


2. Place the bottom side of the insulation

3. Install the unit and fix it to the bracket. Connect the risers unions to the manifolds



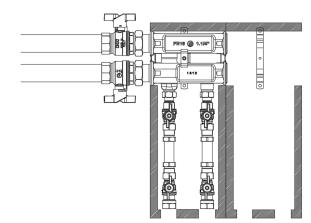
5. Fix the unit at the bracket: be sure the manifolds are correctly aligned and close one each other.



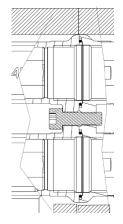
- 7. Add the required number of units.
- 9. Connect the pipes going to the flat, connecting the valve with integrated check valve (purple).
- 10. The water meter can be installed.
- 11. Open the isolating valves and fill the pipes.

The unit manifold is symmetrical and it can be connected to the riser on the right or on the left. The upper manifold is the domestic hot water line and the lower one is the domestic cold water one. In any case, the butterfly handles of the ball valves can be changed and reversed.

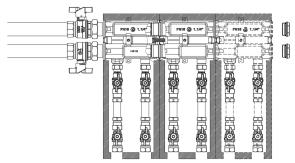
Please verify the available network pressure to provide the suitable flow rate each flat and therefore identify the maximum number of coupled manifolds.



4. Fix the following bracket, 180 mm far from the previous one, at the same level. Place the insulation.



6. Tighten the connecting M10 screw between the manifolds.

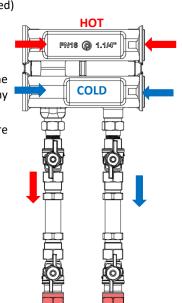


8. Tighten the cap (not included)

TECHNICAL FEATURES

Nominal pressure* 10 bar Check v. opening pres. Min 1.5 kPa Minimum bore 13.5 mm Max temperature* 90°C 110 mm Fluid Water Face to face water meter Water meter connection ¾" flat end Pipe connections Rp ¾" F

Kv ball valves with check valve 7.4



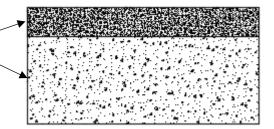
^{*} with plastic sleeve on. Verify technical specifications of water meters.

INSULATING CASE

Unit insulation is made by 2 shells connected with **Velcro**®. Thickness 20 mm.

Materials

Body (external layer)Polyethylene cross linked foam, density 80 kg/m³-**Body (internal layer)**Polyethylene cross linked foam, density 29 kg/m³-

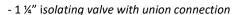


Technical features

	Standard	Insulation case		Unit of measure
Density	ISO 845	29	80	Kg/m³
Compression stress (50% deflection)	ISO 3386/1	88	260	kPa
Tensile strength longitudinal	ISO 1798	0.18	0.8	МРа
Extension longitudinal stretch	ISO 1798	120 (at break)	170 (at break)	%
Residual distortion 22 h at 23°C Deflection of 25% 24h after release	ISO 1856	13	1.5	%
Operating temperature range	-	-60/+90	-60/+90	°C
Thermal conductivity	EN 12667	0.040	0.049	W/mK
Fire resistance	UL94	HF1	HF2	-

ACCESSORIES

- 1 ¼" 3-pieces union connection:
 - **701** (straight)
 - **700** (elbow)



- 52CE/3 (red handle) and 52CE/3B (blue handle)
- 1 ¼" end cap **3522M+O** with O-Ring









GENERALS

Pettinaroli does not accept any liability for improper or wrong use of this product.



Example of installation. Meters not included

