

**PRO AQUA**<sup>®</sup>  
PIPE SYSTEMS SINCE 1997

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**HYDRONIC**  
FLOOR HEATING

**PRO AQUA**<sup>®</sup>  
PIPE SYSTEMS SINCE 1997



# PRO AQUA factory

PRO AQUA is one of the largest manufacturers of equipment for heating and water supply systems. Engineering systems of PRO AQUA brand are well known to technical specialists, construction and design organisations. PRO AQUA plants are equipped with modern European





**ISO 9001**  
**BUREAU VERITAS**  
Certification



These products were manufactured under the control established in the quality management system certified by Bureau Veritas Certification and complying with the requirements of ISO 9001: 2015, certificate N°: RU003921

N°: RU003921

equipment for production of PRO AQUA pipes, fittings and manifolds.  
The plants have certified laboratories that monitor the quality of all products manufactured at PRO AQUA plants.  
Thanks to constant control, the products manufactured by the plants maintain a consistently high quality.

### AquaFloor PE-Xa pipes with EVOH layer S3.5/S4.5 Red



d x s	Code number	Coil length
16x2,0	PXA.03.06.100.R	100
16x2,0	PXA.03.06.200.R	200
16x2,0	PXA.03.06.500.R	500
20x2,0	PXA.03.08.100.R	100
20x2,0	PXA.03.08.200.R	200

**Technical characteristics:**  
 Working pressure 16x2,0 mm – 10 Bar (class 4 - 70 °C);  
 Working pressure 20x2,0 mm – 8 Bar (class 4 - 70 °C);  
 Coefficient of linear expansion – 0,144 mm/(m\*K);  
 Thermal conductivity 0,35 W/(K\*m);  
 Minimum bending radius - 5 x d mm.

### AquaFloor PE-RT pipes with EVOH layer S3.5/S4.5 Orange



d x s	Code number	Coil length
16x2,0	PERT5O16100	100
16x2,0	PERT5O16200	200
16x2,0	PERT5O16300	300
16x2,0	PERT5O16600	600
20x2,0	PERT5O20100	100
20x2,0	PERT5O20200	200

**Technical characteristics:**  
 Working pressure 16x2,0 mm – 8 Bar (class 4 - 70 °C);  
 Working pressure 20x2,0 mm – 6 Bar (class 4 - 70 °C);  
 Coefficient of linear expansion – 0,18 mm/(m\*K);  
 Thermal conductivity 0,38 W/(K\*m);  
 Minimum bending radius - 5 x d mm.

### AquaFloor PE-RT pipes S3.5/S4.5 Red

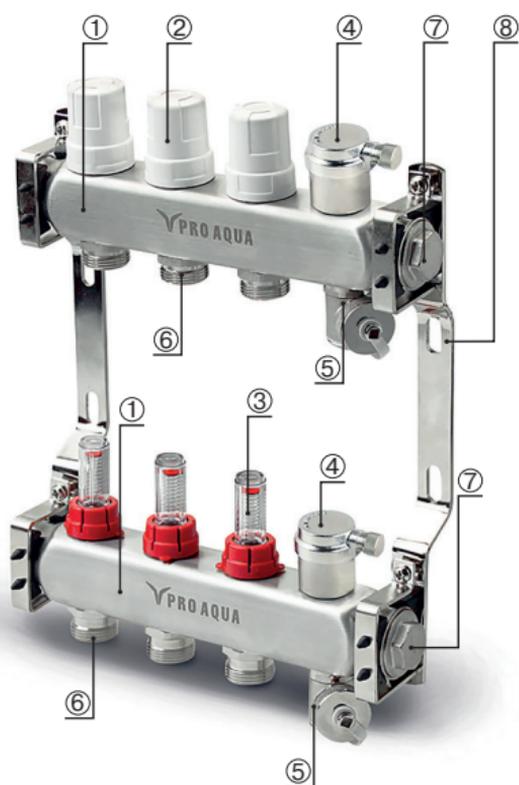


d x s	Code number	Coil length
16x2,0	PERT1RD16100	100
16x2,0	PERT1RD16200	200
16x2,0	PERT1RD16300	300
20x2,0	PERT1RD20100	100
20x2,0	PERT1RD20200	200

**Technical characteristics:**  
 Working pressure 16x2,0 mm – 8 Bar (class 4 - 70 °C);  
 Working pressure 20x2,0 mm – 6 Bar (class 4 - 70 °C);  
 Coefficient of linear expansion – 0,18 mm/(m\*K);  
 Thermal conductivity 0,38 W/(K\*m);  
 Minimum bending radius - 5 x d mm.

## Stainless steel manifolds Pro Aqua

Designed for distributing heating water. Additional functionality: flow measurement with flowmeters, filling and draining the system, air bleed valve and hydraulic balancing of heating circuits. Automatic flow regulation is achieved by installing a thermo-electric actuators which controlled by automation.



1. Supply (bottom) and return (top) manifolds;

2. Thermostatic valves with manually regulation (caps can be replaced with actuators);

3. Control valves with flow meters, which are used for balancing - equalizing the pressure drops in the loops. If balancing is not performed, the main flow of the heating medium will be directed to the shorter loops and the required flow in the longer loops will not be provided;

4. Automatic air vents;

5. Drainage taps;

6. Outlets for connecting floor heating pipes;

7. Plugs. Can be installed on either side, depending on the connection side;

8. Wall brackets with spaced axes, for easy passage of pipes from the upper manifold behind the lower manifold.

## Manifolds with flowmeters and automatic airvents



Outlets	Code number
2	V500MB.AV.02
3	V500MB.AV.03
4	V500MB.AV.04
5	V500MB.AV.05
6	V500MB.AV.06
7	V500MB.AV.07
8	V500MB.AV.08
9	V500MB.AV.09
10	V500MB.AV.10
11	V500MB.AV.11
12	V500MB.AV.12

Connection - 1"

Outlet center distance - 50 mm



## Manifolds with flowmeters

Outlets	Code number
2	V500MB.02
3	V500MB.03
4	V500MB.04
5	V500MB.05
6	V500MB.06
7	V500MB.07
8	V500MB.08
9	V500MB.09
10	V500MB.10
11	V500MB.11
12	V500MB.12

Connection - 1"

Outlet center distance - 50 mm



## Manifolds with regulating valves

Outlets	Code number
2	R510MB.02
3	R510MB.03
4	R510MB.04
5	R510MB.05
6	R510MB.06
7	R510MB.07
8	R510MB.08
9	R510MB.09
10	R510MB.10
11	R510MB.11
12	R510MB.12

Connection - 1"

Outlet center distance - 50 mm



### Swivel Male Nipple

Size	Code number
1"	06D-M25-M25



### Three-way mixing valve

Size	Code number
1"	TMV-f25-f25-f25



### Ball valve, Male x Female

Size	Code number
1/2"	FWB65-m15-f15s
3/4"	FWB65-m20-f20x
1"	FWB65-m25-f25x
1 1/4"	FWB65-m32-f32x



### Mixing shunt (without pump)

Size	Code number
1"	MIX-M25-M25K



### Bypass

Code number
BP-M25-M25



### Thermo-electric actuator

Size	Code number
220 B	INS220NC.01
24 B	INS24NC.01



### Thermostatic remote sensor

Size	Code number
30 x 1,5	INS3000THS



### Eurocone adapter

Outlets	Code number
16x3/4	K05-16-20
20x3/4	K05-20-20

#### Technical characteristics:

Working pressure: 10 bar;  
Working temperature: 95°C.

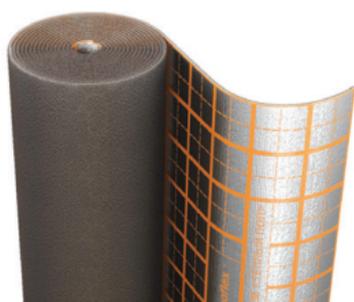
### Underfloor heating panel

Size	Code number	Quantity
1100x800	EFRP200.71.1PLK	10

#### Technical characteristics:

- 14-16 mm pipe diameter;
- Sound insulation 28 dB;
- Thermal resistance 0.81 m<sup>2</sup>\*K/W;
- Compressive strength 70 kPa;
- Laying pitch 50 mm;
- Board size, 1100x700x40 mm;
- Useful area of the board, S=0,77 m<sup>2</sup>;
- Quantity in package, 10 pcs.
- Possibility of fixing the tube during laying.





## Coils Energofloor Compact

Size	Code number
3/1,0-30 M (3 MM)	EFRR03130COM
5/1,0-20 M (5 MM)	EFRR05120COM

### Technical characteristics:

- Maximum operating temperature +70°C;
- Thermal conductivity  $\lambda$  20°C ≤ 0.039W/(mk);
- Permeability  $\mu$  ≥ 3000;
- Flammability group - G2;
- Aluminium foil thickness not less than 30 microns;
- 1 m wide rolls, thickness 3 and 5 mm thick.



## Damping tape

Size	Code number
10/0,15 -11	EFRL1015011DM

The damping tape is designed to compensate for thermal expansions arising from heating pipelines. The damping tape is placed along the perimeter of the room and in expansion joints. This is a prerequisite for the installation of underfloor heating.



## Corrugated protective pipes

Code number (blue)	Code number (red)	Inside diameter, mm
PECP2516B	PECP2516R	20
PECP2820B	PECP2820R	23
PECP3525B	PECP3525R	29
PECP4332B	PECP4332R	37



## Pipe bend former 90° degree

Size	Code number
16	PA65000P
20	PA65020P



## Pipe bend former 45° degree

Size	Code number
16	PA65000P45
20	PA65020P45

Pipe bend former 90 or 45 degree defines the desired bend radius for bringing plastic heating and water pipes to the manifold box or radiator. Material - polyamide.

### Fixing rail

Size	Code number
0,5 m	fr-1620



### Bracket

Size	Quantity	Code number
16-20mm	100	FCH2004



### Manifold cabinet, flush-mounted version

Model	Code number	Dimensions (mm)
ШPB2	0-32-1110	550x120-180x648-711
ШPB3	0-32-1120	700x120-180x648-711
ШPB4	0-32-1130	850x120-180x648-711
ШPB5	0-32-1140	1000x120-180x648-711
ШPB6	0-32-1150	1150x120-180x648-711
ШPB7	0-32-1160	1300x120-180x648-711



- galvanised steel enclosure;
- depth adjustment;
- locks on the side panels.

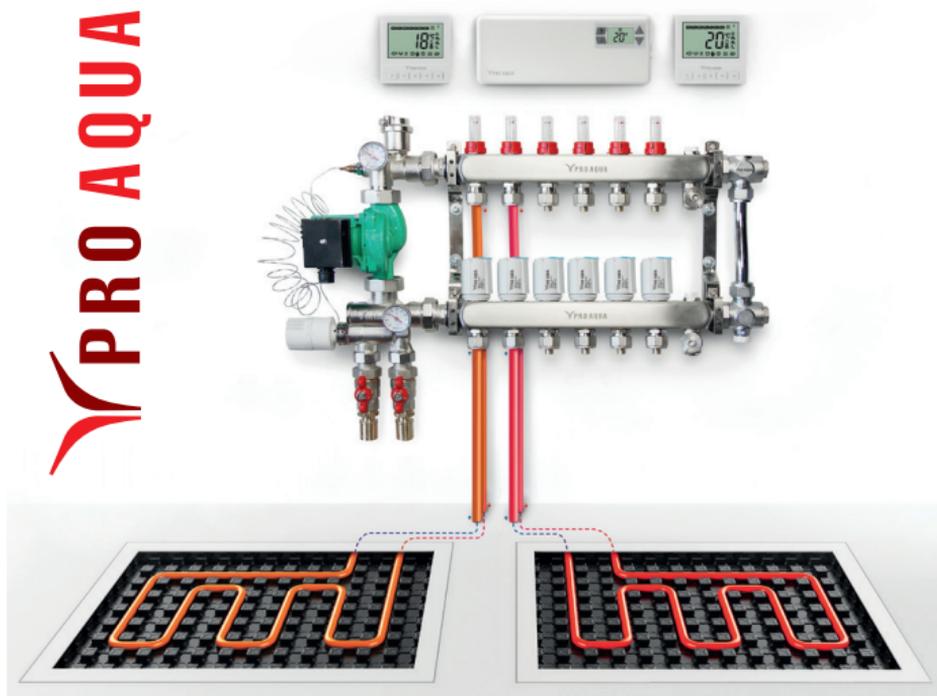
### Manifold cabinet, surface-mounted version

Model	Code number	Dimensions (mm)
ШPH1	0-32-1010	450x118x652-715
ШPH2	0-32-1020	550x118x652-715
ШPH3	0-32-1030	697x118x652-715
ШPH4	0-32-1040	848x118x652-715
ШPH5	0-32-1050	998x118x652-715
ШPH6	0-32-1060	1147x118x652-715
ШPH7	0-32-1070	1300x118x652-715



- removable door equipped with internal lock for protection against unauthorised access;
- perforated side panels;
- segments can be removed at a convenient location for connecting pipework to manifolds;
- all cabinet faces are powder coated, with pre-applied phosphate film, to give anti-corrosion properties.

# PRO AQUA



## MANIFOLD SYSTEMS

### ASSEMBLED PRO AQUA FOR HEATING AND UNDERFLOOR HEATING SYSTEMS

Complex solutions for underfloor heating and water heating systems by PRO AQUA. The main advantages of manifold groups made of stainless steel: resistance to corrosion, full availability of component parts and ease of installation.

PRO AQUA manifold systems are made of stainless steel AISI 304 grade (American Iron and Steel Institute), which is high resistant to chemical and acidic media and can withstand high temperatures.

AISI 304 stainless steel is one of the most environmentally friendly materials used, including materials, also used in medical applications. The PRO AQUA manifold group includes a supply and a return manifold. The component parts include:

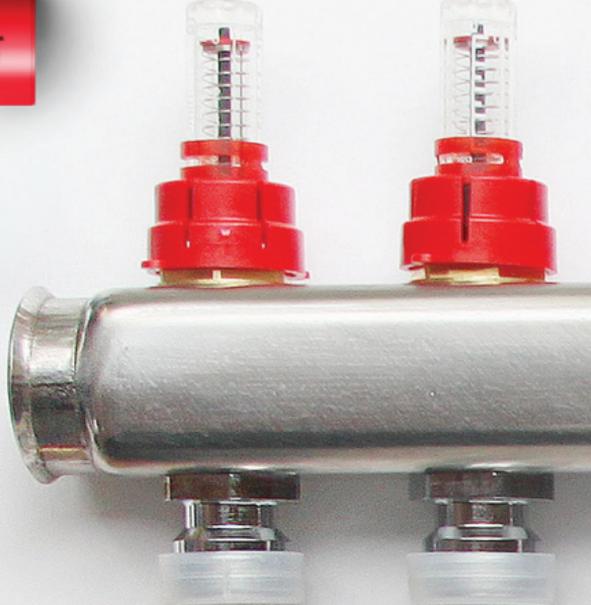
shut-off and regulating valves or flow meters (depending on the type of system), a manual air-bleed valve (Maevsky valve), drain cock and wall mounting bracket.

PRO AQUA stainless steel manifold systems are considerably lighter than their brass counterparts, which makes them easier to install and transport. installation and transport.

#### **The main advantages of PRO AQUA manifold systems are:**

- ideal price/quality ratio;
- resistance to chemical and acidic media;
- exceptional environmental friendliness;
- compatibility of all system components;
- reliable connections;
- easy installation and maintenance.

БАРЬЕРНЫМ СЛОЕМ PE - RT



[proaquasystem.com](http://proaquasystem.com)

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