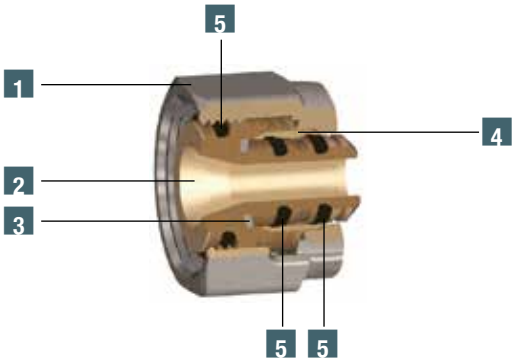
Multilayer Monoblocco fitting

Monoblocco fitting 24x19 and Eurocone for multilayer pipe





Construction
1. Nut in nickel-plated brass UNI EN 12165 CW617N
2. Adapter in brass UNI EN 12164 CW614N
3. Washer in PTFE, dielectric
4. Serrated hose-clamp, cut brass UNI EN 12164 CW614N
5. O-ring seals in EPDM

Maximum torque:
Ø 12 - Ø 20 with nut 24x19 CH27: 30÷35 Nm
Ø 12 - Ø 16 with nut 3/4" EK: 30÷35 Nm
Ø 20 with nut 3/4" EK: 40÷45 Nm
Ø 26x3: 55÷60 Nm
Ø 32x3: 40÷50 Nm

For the conditions of use of the seal (pressure and temperature), refer to the application classes of the pipe combined with it (ref. UNI EN ISO 21003-1).

PATENT PENDING

Dimensions: see section Technical Attachments



PATENT PENDING

24x19 fitting for multilayer pipe, nickel-plated

Dimension	Thread	Pcs. pack	Code	Price €
12 x 1,6	24x19	20	28100355	6,87
14 x 2	24x19	20	28100356	4,84
16 x 2	24x19	50	28100358	4,44
16 x 2,25	24x19	20	28100360	4,52
18 x 2	24x19	50	28100364	4,52
20 x 2	24x19	50	28100366	4,44
20 x 2,5	24x19	20	28110218	6,84
26 x 3	M32x1,5	8	28100368	9,11



Pair of clamp fittings for multilayer pipe

Construction characteristics:
- body in nickel-plated brass UNI EN 12165 CW617N
- thread G (UNI EN ISO 228-1)
- 46 mm nut spanner

Dimension	Thread	Pcs. pack	Code	Price €
32 x 3	1" M with O-ring	1	27180620	56,05
32 x 3	1" F	1	27180622	60,08

Multilayer Monoblocco fittings



Fitting Female 24x19 - Male M32x1,5

Dimension	Pcs. pack	Code	Price €
24x19 - M32x1,5	10	01306252	11,89

Complete with O-Ring and adapter female side

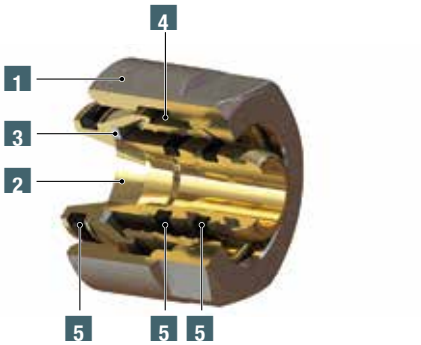


Straight Male fitting 1/2" - M32x1,5

Dimension	Pcs. pack	Code	Price €
1/2" - M32x1,5	10	01306250	7,90

Complete with O-Ring





Monoblocco 2.0 fitting 3/4" Eurocone

Construction

1. Nut in nickel-plated brass UNI EN 12165 CW617N
2. Adapter in brass UNI EN 12164 CW617N
3. Washer in PTFE, dielectric
4. Serrated hose-clamp in brass UNI EN 12164 CW614N
5. O-ring seals EPDM

Dimension	Thread	Pcs. pack	Code	Price €
16 x 2 (with o-ring)	3/4" Eurocone	10	28110606	4,80

PATENT PENDING



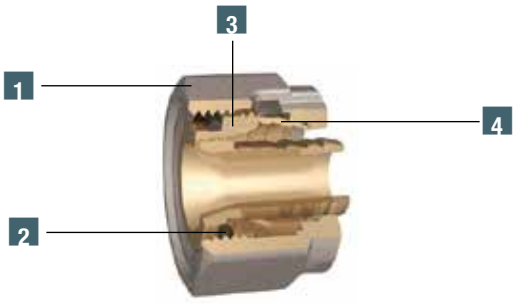
Monoblocco fitting 3/4" Eurocone

Dimension	Thread	Pcs. pack	Code	Price €
20 x 2	3/4" Eurocone	10	28100798	6,62

PATENT PENDING

Monoblocco fitting 24x19 and Eurocone for plastic pipe PE-X, PE-RT, PP, PB





Construction
1. Nut in nickel-plated brass UNI EN 12165 CW617N
2. O-ring seals in EPDM
3. Adapter in brass UNI EN 12164 CW617N
4. Serrated hose-clamp in brass UNI EN 12164 CW614N

Maximum torque:
Ø 12 - Ø 20 with nut 24x19: 30÷35 Nm
Ø 12 - Ø 16 with nut 3/4" EK: 30÷35 Nm
Ø 17 - Ø 20 with nut 3/4": 35÷40 Nm
Ø 25x2,3: 55÷60 Nm

For the conditions of use of the seal (pressure and temperature), refer to the application classes of the pipe combined with it (ref. UNI EN ISO 21003-1 for pipes type PE-Xc PENTA; UNI EN ISO 15875-1 for pipes type PE-Xc and PE-Xa; UNI EN ISO 22391-1 for pipes type PE-RT).

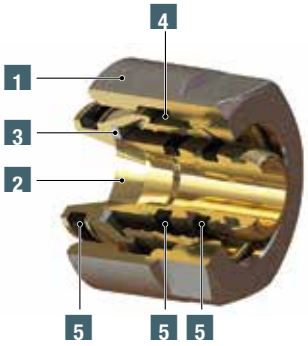


PATENT PENDING

Monoblocco fitting 24x19 for plastic pipe PE-X, PE-RT, PP

Dimension	Thread	Pcs. pack	Code	Price €
12 x 1	24x19	20	28110100	5,69
12 x 2	24x19	20	28110106	5,69
15 x 1,7	24x19	20	28110112	5,53
16 x 1,5	24x19	20	28110116	5,62
16 x 2	24x19	20	28110118	5,25
16 x 2,2	24x19	20	28110120	5,27
17 x 2	24x19	20	28110122	5,27
20 x 2	24x19	20	28110446	5,51
25 x 2,3	M32 x 1,5	8	28100382	10,40





PATENT PENDING

Monoblocco 2.0 3/4" Eurocone fitting for plastic, PE-X and PE-RT pipe

Construction
1. Nut in nickel-plated brass UNI EN 12165 CW617N
2. Adapter in brass UNI EN 12164 CW617N
3. Washer in PTFE, dielectric
4. Serrated hose-clamp in brass UNI EN 12164 CW614N
5. O-ring seals EPDM

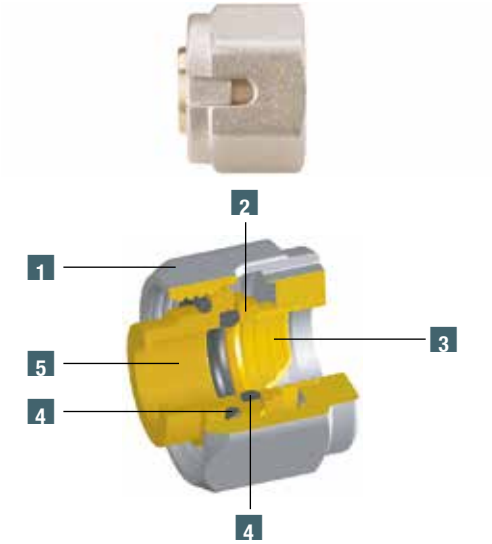
Dimension	Thread	Pcs. pack	Code	Price €
16 x 2 (with o-ring)	3/4" Eurocone	10	28110606	4,80
17 x 2 (with o-ring)	3/4" Eurocone	10	28110608	4,75



PATENT PENDING

Monoblocco 3/4" Eurocone fitting for plastic, PE-X and PE-RT pipe

Dimension	Thread	Pcs. pack	Code	Price €
12 x 2 (with o-ring)	3/4" Eurocone	10	28100788	6,96
20 x 2 (with o-ring)	3/4" Eurocone	10	28100798	6,62



PATENT PENDING

Monoblocco fitting 24x19 for plastic pipe PB

Construction

1. Nut in nickel-plated brass UNI EN 12165 CW617N
2. Collar in brass UNI EN 12164 CW614N
3. Serrate hose-clamp, cut, in brass UNI EN12164 CW614N
4. O-ring seal in EPDM
5. Adapter in brass UNI EN 12164 CW617N

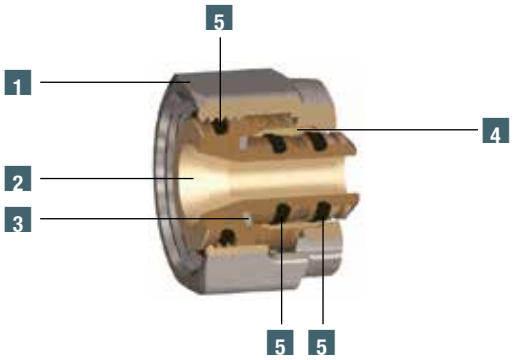
Dimension	Pcs. pack	Code	Price €
Ø 15 (*)	50	28100330	3,82

(*) Polybutylene
When using Emmeti compression fittings for Polybutylene pipe, please ansure you use the plastic pipe insert provided for by the manufacturer of the pipe you are using.

3-pieces fitting

3-pieces fittings for PE-X and Multilayer pipe





Construction

1 Nut in nickel-plated brass UNI EN 12165 CW617N
2 Adapter in brass UNI EN 12164 CW617N
3 Washer in PTFE, dielectric
4 Serrated hose-clamp in brass UNI EN 12164 CW614N
5 O-ring seals EPDM

Maximum torque:
Ø 12 - Ø 17: 30÷35 Nm

For the conditions of use of the seal (pressure and temperature), refer to the application classes of the pipe combined with it (ref. UNI EN ISO 21003-1 for pipes type Multi-layer and PE-Xc PENTA; UNI EN ISO 15875-1 for pipes type PE-Xa; UNI EN ISO 22391-1 for pipes type PE-RT).



3-piece fittings 24x19 for PE-X, PE-RT and Multilayer pipe

Dimension	Thread	Pcs. pack	Code	Price €
12 x 2	24x19	20	28110502	6,55
14 x 2	24x19	20	28110504	4,68
16 x 2	24x19	20	28110506	4,48
17 x 2	24x19	20	28110508	4,00



3-pieces fittings 3/4" Eurocone for PE-X, PE-RT and Multilayer pipe

Dimension	Thread	Pcs. pack	Code	Price €
12 x 2	3/4" Eurocone	10	28110788	6,61
14 x 2	3/4" Eurocone	10	28110790	5,02
17 x 2	3/4" Eurocone	10	28110794	5,04

Accessories for Monoblocco



Polygonal spanner, open type CH 27 - 30

Dimension	Pcs. pack	Code	Price €
CH 27-30	1	01306058	108,60



Spanner for tightening derivations CH 27 usable for pipes up to DN 18

NEW

Dimension	Pcs. pack	Code	Price €
CH 27	1	01306051	11,33



CH 38 spanner for multilayer Monoblocco fittings 26x3

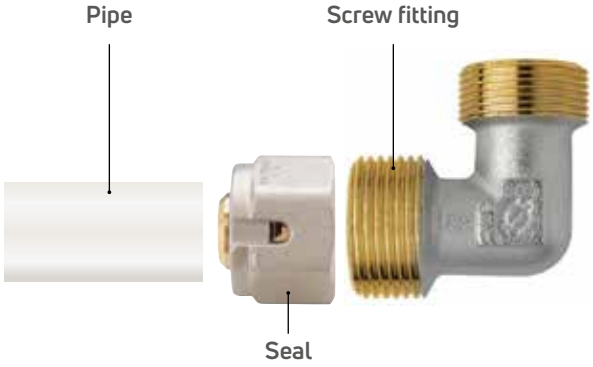
Dimension	Pcs. pack	Code	Price €
	1	28171002	173,90

To be used for the tightening of the single-piece fittings for multilayer pipe 26x3 on the branches of manifolds with interval of 50 mm

Fittings to be tightened

Screw fittings for copper, plastic and multilayer pipes





PATENT PENDING

Uses
The use of the screw-together pipe fittings makes installing the multi-layer pipe very easy, and moreover it requires very few tools.
The 24x19 and M32x1,5 threading allows for a single type of fitting which can be matched with Emmeti seals 24x19 and M32x1,5 Emmeti, for copper pipe, multi-layer pipe or PE-X, PE-RT, PP, PB, rationalizing the warehouse.

Construction
Body UNI EN 12165 CW617N**
Female - Male connection
Thread gas ISO 228/1 (DIN 259)
** Nickel-plated only on surface non in contact with fluides; availibility after exaustion of totally nickel-plated version.

24x19 and M32x1,5 thread connect copper pipe, plastic or multilayer, using a standard fitting that is mated to the specific seal for the pipe being used.

24x19





24x19 Monoblocco fitting for copper pipe, for water and gas



24x19 Monoblocco fitting for multi-layer pipe, for water



24x19 Monoblocco fitting for PE-X, PE-RT, PP, PB pipe, for water

M 32x1,5





M 32x1,5 Monoblocco fitting for Multi-layer pipe DN 26x3 and PE-X pipe DN 25x2.3, for water



The seals for multilayer pipes, PE-X, PP, PB are equipped with an opening on the nut to check the correct insertion of the pipe up to the stop point.



PATENT PENDING

Straight female joint, nickel -plated

Dimension	Thread	Pcs. pack	Code	Price €
1/2"	24x19	20	28103000	2,37
3/4"	24x19	14	28103010	3,65
3/4"	M32x1,5	10	28103020	4,05
1"	M32x1,5	8	28103030	4,65



PATENT PENDING

Straight male joint, nickel-plated

Dimension	Thread	Pcs. pack	Code	Price €
1/2"	24x19	20	28103040	2,44
3/4"	24x19	14	28103050	3,51
3/4"	M32x1,5	10	28103060	4,05
1"	M32x1,5	10	28103070	4,35



PATENT PENDING

Straight joint double jointed nickel-plated

Dimension	Pcs. pack	Code	Price €
24 x 19	20	28103080	2,46
M32 x 1,5	10	28103090	4,22



Fitting Female 24x19 - Male M32x1,5

Dimension	Pcs. pack	Code	Price €
24x19 - M32x1,5	10	01306252	11,89

Complete with O-Ring and adapter female side



Straight Male fitting 1/2" - M32x1,5

Dimension	Pcs. pack	Code	Price €
1/2" - M32x1,5	10	01306250	7,90

Complete with O-Ring



PATENT PENDING

Female elbow joint nickel-plated

Dimension	Thread	Pcs. pack	Code	Price €
1/2"	24x19	10	28103100	4,21
3/4"	24x19	8	28103110	5,23
3/4"	M32x1,5	6	28103120	6,47
1"	M32x1,5	4	28103130	8,14



PATENT PENDING

Male elbow joint nickel-plated

Dimension	Thread	Pcs. pack	Code	Price €
1/2"	24x19	10	28103140	3,91
3/4"	24x19	10	28103150	4,64
3/4"	M32x1,5	8	28103160	5,70
1"	M32x1,5	5	28103170	7,55



PATENT PENDING

Double-jointed elbow nickel-plated

Dimension	Pcs. pack	Code	Price €
24 x 19	10	28103180	3,98
M32 x 1,5	6	28103190	6,00



PATENT PENDING

TEE joint female nickel-plated

Dimension	Thread	Pcs. pack	Code	Price €
1/2"	24x19	8	28103200	4,97
3/4"	24x19	5	28103210	6,55



PATENT PENDING

TEE-joint male nickel-plated

Dimension	Thread	Pcs. pack	Code	Price €
1/2"	24x19	8	28103240	4,83
3/4"	24x19	6	28103250	6,08



PATENT PENDING

TEE-joint three-piece nickel-plated

Dimension	Pcs. pack	Code	Price €
24x19	8	28103280	4,57



PATENT PENDING

Elbow joint female with flange nickel-plated

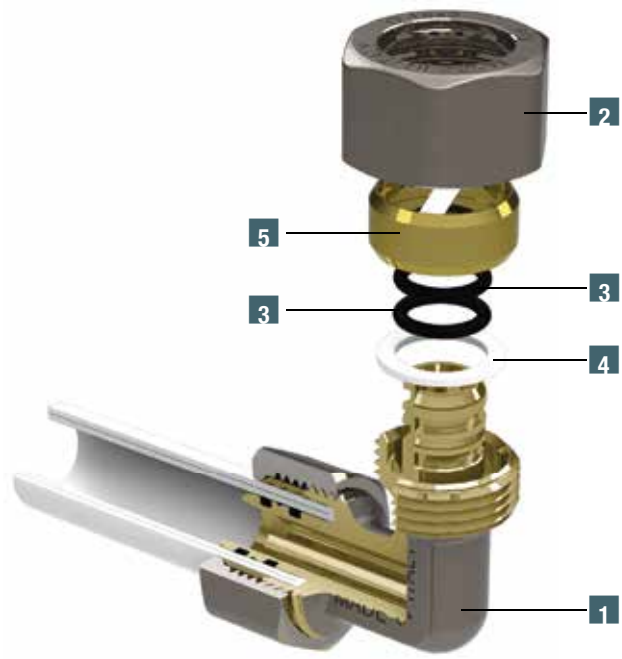
Dimension	Thread	Pcs. pack	Code	Price €
1/2"	24x19	6	28103300	5,88

PATENT PENDING

Eco

Screw compression fitting





Construction

1 CW617N (UNI EN 12165) and CW614N (UNI EN 12164) brass body*
2 Nut in nickel plated brass UNI EN 12165 CW617N
3 EPDM peroxide 70 SH double o-ring
4 Washer PTFE
5 Ogive
* Nickel-plating only on surfaces non in contact with transported fluids.

Technical data

"Eco" fittings allow quick, safe installation with less equipment. The items are equipped with two o-rings in EPDM that ensure the seal along with the sawtooth profile on the hose connection itself, plus a ring in PTFE to eliminate any stray currents.

Suitability for potable water

"Eco" screw compression fittings comply with Italian Ministry of Health Decree no. 174 dated 06/04/2004.



Straight female joint, nickel-plated

Dimension	Pcs. pack	Code	Price €
1/2" x 16	150	27180500	3,73
1/2" x 20	100	27180502	5,55
3/4" x 20	60	27180504	5,99
3/4" x 26	50	27180570	11,43
1" x 26	50	27180572	12,08



Straight male joint, nickel-plated

Dimension	Pcs. pack	Code	Price €
1/2" x 16	150	27180506	3,59
1/2" x 20	100	27180508	5,58
3/4" x 20	100	27180510	5,45
3/4" x 26	50	27180578	11,28
1" x 26	50	27180580	11,32

Screw compression fittings



Elbow female joint, nickel-plated

Dimension	Pcs. pack	Code	Price €
1/2" x 16	100	27180512	4,65
1/2" x 20	60	27180514	7,54
3/4" x 20	60	27180516	9,93
3/4" x 26	40	27180582	14,38



Elbow male joint, nickel-plated

Dimension	Pcs. pack	Code	Price €
1/2" x 16	100	27180518	4,31
1/2" x 20	60	27180520	7,37
3/4" x 20	60	27180522	9,81
3/4" x 26	40	27180584	14,38



Female elbow joint with flange, nickel-plated

Dimension	Pcs. pack	Code	Price €
1/2" x 16	50	27180524	6,77
1/2" x 20	30	27180526	7,92



Intermediate Tee joint with female branching, nickel-plated

Dimension	Pcs. pack	Code	Price €
16 x 1/2" x 16	50	27180530	7,43
20 x 1/2" x 20	30	27180532	11,72
20 x 3/4" x 20	30	27180534	11,99
26 x 3/4" x 26	20	27180588	21,98



Straight intermediate joint, nickel-plated

Dimension	Pcs. pack	Code	Price €
16 x 16	100	27180536	5,95
20 x 20	50	27180538	8,96
26 x 26	30	27180574	16,47



Straight intermediate reduced joint, nickel-plated

Dimension	Pcs. pack	Code	Price €
16 x 20	70	27180540	8,42
20 x 26	50	27180576	15,54

Screw compression fittings



Intermediate elbow joint, nickel-plated

Dimension	Pcs. pack	Code	Price €
16 x 16	100	27180542	6,17
20 x 20	60	27180544	11,10
26 x 26	30	27180586	19,07



Intermediate Tee joint, nickel-plated

Dimension	Pcs. pack	Code	Price €
16 x 16 x 16	50	27180546	8,86
20 x 20 x 20	30	27180548	14,49
26 x 26 x 26	20	27180590	24,83



Intermediate reduced Tee joint, nickel-plated

Dimension	Pcs. pack	Code	Price €
16 x 20 x 16	30	27180550	13,06
16 x 20 x 20	30	27180552	13,46
26 x 20 x 26	20	27180592	24,88



Intermediate Tee joint with male branching, nickel-plated

Dimension	Pcs. pack	Code	Price €
16 x 1/2" x 16	50	27180554	7,31
20 x 1/2" x 20	30	27180556	11,44
20 x 3/4" x 20	30	27180558	12,22



105° female joint, nickel-plated

Dimension	Pcs. pack	Code	Price €
1/2" x 16	50	27180560	8,12



105° long female joint, nickel-plated

Dimension	Pcs. pack	Code	Price €
1/2" x 16	50	27180562	12,29

Spare parts for screw compression fittings Eco



Nut with 1/2" connection, nickel-plated

Dimension	Pcs. pack	Code	Price €
16	5	27180600	1,08
20	10	27180602	1,43
26	5	27180603	3,07



Ogive

Dimension	Pcs. pack	Code	Price €
16	20	27180604	0,47
20	10	27180606	0,72
26	5	27180607	1,12



Valves,bibcocks, detectors and accessories for gas

WEB

SCAN

> Ball valves for gas  347

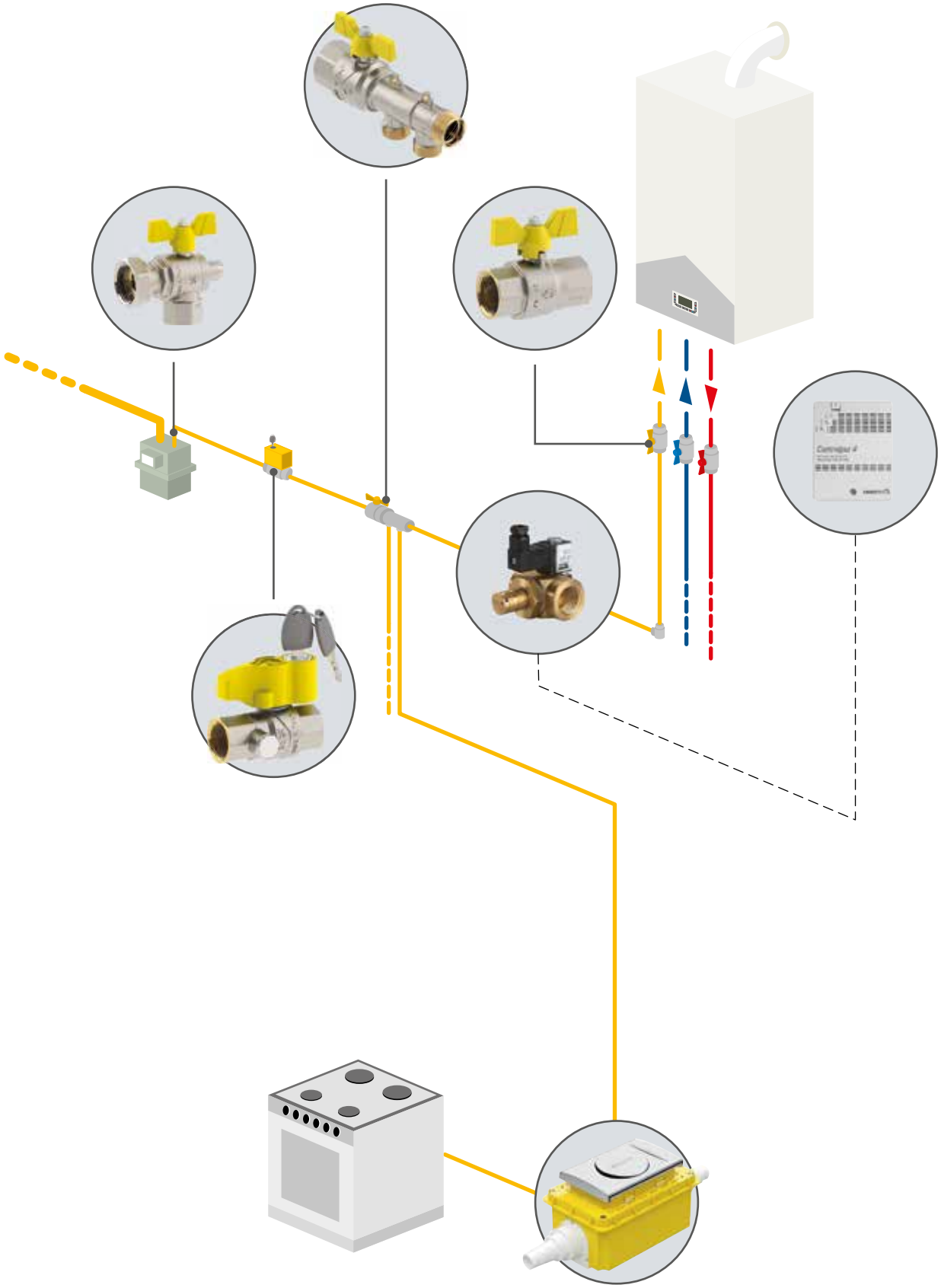
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> Controlgas 4
gas leak detector  354

> Solenoid valves for gas  355

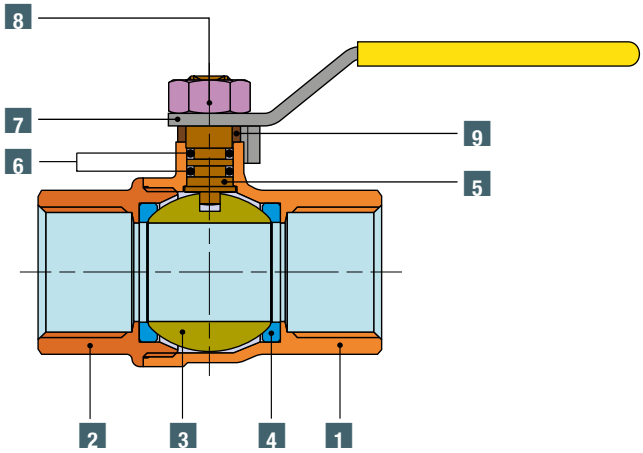


Example of installation



Ball valves for gas





Construction

1. Valve body made brass UNI EN 12165 CW617N nickel finish
2. End connection nickel-plated brass UNI EN 12165 CW617N
3. Ball hard chromed brass UNI EN 12165 CW617N
4. Ball seal in pure P.T.F.E.
5. Stem brass UNI EN 12164 CW617N
6. Rod seal o-ring NBR 70 Sh A (AS™D 2240)
7. Handle zinc-plated steel, plastified
8. Nut zinc-plated steel
9. Anti-friction ring P.T.F.E.

Technical data

Male - Female thread UNI EN 10226-1 (ISO 7/1:1994)
Nut, tang and pressure connection thread UNI EN ISO 228-1
Max operating pressure MOP 5
Class of resistance to high temperatures: B0,1
Temperature range: from -20 to +60 °C
Ball valves must be used in fully open or fully close position.



CE DVGW CERT **UNI EN 331**

Futurgas Female-Female lever handle

Dimension	Pcs. pack	Code	Price €
1/2"	16	09813500	9,31
3/4"	12	09813502	13,83
1"	6	09813504	22,51
1"1/4	4	09813506	34,30
1"1/2	1	09813508	54,60
2"	3	09813510	80,35



CE DVGW CERT **UNI EN 331**

Futurgas Male-Female lever handle

Dimension	Pcs. pack	Code	Price €
1/2"	16	09813512	10,04
3/4"	12	09813514	14,47
1"	6	09813516	24,77
1"1/4	4	09813518	35,71
1"1/2	1	09813520	54,60
2"	3	09813522	87,15



CE DVGW CERT **UNI EN 331**

Futurgas Female-Female butterfly handle

Dimension	Pcs. pack	Code	Price €
1/2"	16	09813524	8,98
3/4"	12	09813526	13,11
1"	6	09813528	21,80
1"1/4	4	09813530	34,30

Futurgas - Ball valves for gas



UNI EN 331

Futurgas Male-Female butterfly handle

Dimension	Pcs. pack	Code	Price €
1/2"	16	09813532	9,41
3/4"	12	09813534	13,74
1"	6	09813536	22,51
1"1/4	4	09813538	35,71



UNI EN 331

Futurgas Female-Revolving nut butterfly handle

Dimension	Pcs. pack	Code	Price €
1/2" F x 3/4" G	16	09813540	14,38
3/4" F x 3/4" G	12	09813542	19,27



UNI EN 331

Futurgas Female-Female with pressure connection G 1/4 and butterfly handle

Dimension	Pcs. pack	Code	Price €
1/2"	6	09813544	16,00
3/4"	5	09813546	20,74
1"	6	09813548	29,95



UNI EN 331

Futurgas Female-Revolving nut with pressure connection G 1/4 and butterfly handle

Dimension	Pcs. pack	Code	Price €
3/4" F x 1" G	2	09813550	26,97
1" F x 1" 1/4 G	1	09813552	37,68



UNI EN 331

Right-angle Futurgas Female Female butterfly handle

Dimension	Pcs. pack	Code	Price €
1/2"	18	09813000	12,59
3/4"	12	09813002	18,21
1"	6	09813004	28,14



UNI EN 331

Right-angle Futurgas Female Male butterfly handle

Dimension	Pcs. pack	Code	Price €
1/2"	18	09813006	12,51
3/4"	12	09813008	18,21
1"	6	09813010	28,52



UNI EN 331

Right-angle Futurgas Male Male butterfly handle

Dimension	Pcs. pack	Code	Price €
1/2"	18	09813012	12,55
3/4"	12	09813014	18,21



UNI EN 331

Right-angle Futurgas Female Swivel union butterfly handle

Dimension	Pcs. pack	Code	Price €
1/2" F x 3/4" G	14	09813016	16,00
3/4" F x 3/4" G	10	09813018	21,40



UNI EN 331

Right-angle Futurgas Male Swivel union butterfly handle

Dimension	Pcs. pack	Code	Price €
1/2" M x 3/4" G	14	09813020	16,83
3/4" M x 1" G	8	09813022	21,80
1" M x 1"1/4 G	4	09813024	34,30



UNI EN 331

Right-angle Futurgas Female-Female with pressure connection G 1/4 and butterfly handle

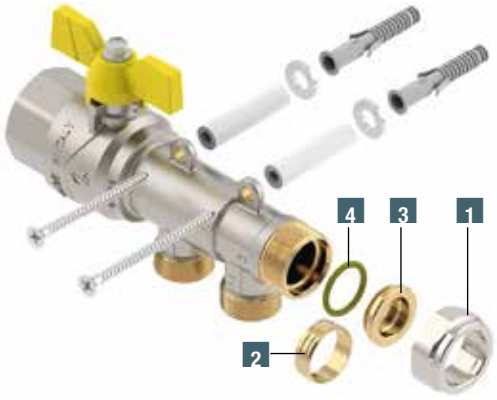
Dimension	Pcs. pack	Code	Price €
3/4"	2	09813026	24,77
1"	1	09813028	33,48



UNI EN 331

Right-angle Futurgas Female-Revolving nut with pressure connection G 1/4 and butterfly handle

Dimension	Pcs. pack	Code	Price €
3/4" F x 1" G	2	09813030	29,07
1" F x 1" 1/4 G	1	09813032	39,79



UNI EN 331

Valve with manifold first inlet

Collector with integrated shut-off valve with 1" F inlet / two 24x 19M branches / one M28x1.5 branch, suited for creating joints inside the rooms, which can be exposed and have a shut-off, in compliance with UNI 7129.
The pack includes:
- Screws, plugs and spacers for wall-mounted installation.
- Nut M28x1.5 (1) that can be used with the brass ogive (2) supplied for connection to copper piping Ø22 mm, or with the blind adapter D22 (3) and relative o-ring in HNBR 18x2.5 (4) provided in order to seal the outlet if not used.
Note: fitting seals, see gas monobloc section

Dimension	Pcs. pack	Code	Price €
1" F	1	09812566	54,60

Lateral branches: 24x19 Male
Head branch: M28 x 1.5

Threads 1": Rp (UNI EN 10226-1)



Straight with female swivel nut, o-ring fitting

Dimension	Profile	Pcs. pack	Code	Price €
Ø 26 - M 28 x 1,5	B (KSP1) / TH (KSP11)	2	28125250	20,82

Fitting accessory for derivation M28x1,5 alve with manifold first inlet



Female cap 24x19 for gas

Dimension	Pcs. pack	Code	Price €
Female cap 24x19	20	01321460	2,99

Fitting to be used to plug the 24x19 male branches of the valve with first inlet manifold.



Built-in box for valve with gas manifold first inlet

Dimension	Pcs. pack	Code	Price €
264x164x110	1	13010000	30,87

Items inside the package:
- 4 adjustable extension cables for DN16 - DN18 - DN20 - DN26 - DN32 pipes
- 2 M4x50 screws with relative washers and nuts

Dimensions: see section Technical Attachments



UNI 10284

Dielectric joints for gas

Electrical resistance in dry air > 5 MOhm - Insulation voltage in dry air > 3000 V - Operating pressure 10 bar - Operating temperature -10÷70 °C
- Certified for operating at 15 bar

Dimension	Pcs. pack	Code	Price €
1/2"	5	02460012	37,77
3/4"	6	02460020	37,77
1"	3	02460025	41,60
1"1/4	2	02460032	65,48
1"1/2	1	02460040	70,89
2"	1	02460050	90,89

Ball valves for gas with safety locks

These valves, normally usable for the application to the counter, are equipped with a safety lock with keys for the exclusive use of the user as required by UNI 7129-1:2015 Paragraph 4.1, and a key (sold separately) for use by the manager/administrator. In case of emergency, it's possible close the gas flow without the use of the key ensuring a locking in closing. It's possible, with the key to the manager/administrator, to prevent any action by the user.



UNI EN 331

Futurgas Female-Female with safety lock and pressure connection G 1/4

Dimension	Pcs. pack	Code	Price €
3/4"	1	09813554	41,23
1"	1	09813556	49,32

Dimensions: see section Technical Attachments



UNI EN 331

Right-angle Futurgas Female-Female with safety lock and pressure connection G 1/4

Dimension	Pcs. pack	Code	Price €
3/4"	1	09813042	43,19
1"	1	09813036	51,37

Dimensions: see section Technical Attachments



UNI EN 331

Right-angle Futurgas Female-Revolving nut with safety lock and pressure connection G 1/4

Dimension	Pcs. pack	Code	Price €
3/4" F x 1" G	1	09813038	47,69
1" F x 1" 1/4 G	1	09813040	57,57

Dimensions: see section Technical Attachments



Master key

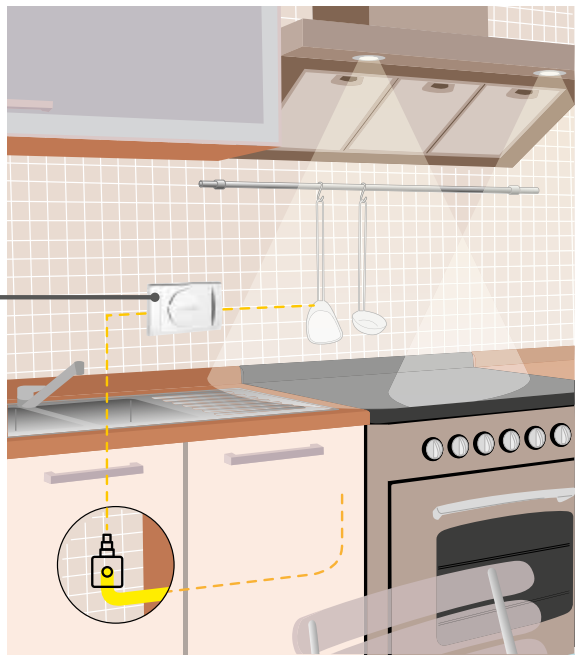
Dimension	Pcs. pack	Code	Price €
	1	09008680	8,68

Dimensions: see section Technical Attachments

Gas Box 2.0

Recessed ball valve for gas with retractable handle





Uses
It is suitable to be used with methane gas, city gas, Lpg.

Technical data
Size: DN15
Threaded connections: R 3/4" UNI EN 10226-1 (ISO 7-1:1994)
Opening and closing with 90° knob rotation
Operating temperature: -20°C to +60°C
O-ring stem seal NBR 70 Sh A (ASTM D 2240)
Operating pressure: MOP 5
High temperature resistance class: B0,1

Application
To cut off supply to the hob.
To cut off supply to gas boiler or water heaters.
As main gas cut-off valve, in an easily accessible place.

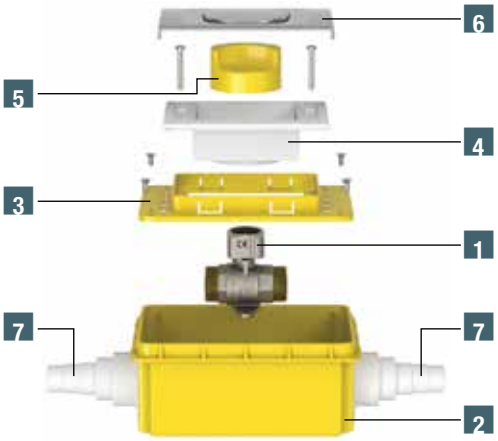
Conformity

refer to the valve only.

It meets the specifications contained in the UNI 7129-1 standard.

The valve must be used in the fully open or fully closed position.

Dimensions: see section Technical Attachments



Recessed ball valve for gas with retractable handle Gas Box 2.0

Construction
1 Body valve in brass 3/4" M-M UNI EN 12165 CW617N, sandblasted, nickel plated
2 Box in yellow ABS
3 Base housing support in yellow ABS
4 Support in shockproof PS
5 Handle in yellow shockproof PS
6 Door in ABS (standar chromed)
7 Coupling for sheath in PP

Dimension	Pcs. pack	Code	Price €
Gas Box 2.0 R 3/4"	1	09812620	45,33

Accessories for Gas Box 2.0



Kit chromed door Gas Box 2.0

Dimension	Pcs. pack	Code	Price €
	1	90033780	8,89

Composed of: chromed door + white support + yellow knob



Kit white door Gas Box 2.0

Dimension	Pcs. pack	Code	Price €
	1	90033770	7,48

Composed of: white door + white support + yellow knob



Kit anthracite door Gas Box 2.0

Dimension	Pcs. pack	Code	Price €
	1	90033790	8,89

Composed of: anthracite door + white support + yellow knob



Straight with female swivel nut, flat seal in NBR

Dimension	Profile	Pcs. pack	Code	Price €
16 x 3/4"	B (KSP1) / TH (KSP11)	1	28125402	8,24
20 x 3/4"	B (KSP1) / TH (KSP11)	1	28125406	8,22
26 x 3/4"	B (KSP1) / TH (KSP11)	1	28125408	8,61



Welding kit nut, tang in brass and gasket

Dimension	Pcs. pack	Code	Price €
Ø 12 x 3/4"	10	90031050	6,30
Ø 14 x 3/4"	10	90031060	6,30
Ø 16 x 3/4"	10	90031070	5,64
Ø 18 x 3/4"	10	90031080	7,90

Composed of: nickel-plated nut + brass tang + aluminium gasket.

Terminals suitable for welding or brazing capillary according to UNI EN 1254-1



Aluminium gasket for gas

Dimension	Pcs. pack	Code	Price €
3/4"	10	4964X004	0,36

Controlgas 4

Gas leak detection systems



Methane gas leak detector for domestic use with the possibility of directly controlling a 230 Vac solenoid valve.
Equipped with test button.

Compliance with CEI UNI EN 50194 standard
Compliance Directive 2014/30/EU (electromagnetic compatibility)
Compliance Directive 2014/35/EU (low voltage)

Technical data
Power supply: 230 Vac -15/+10% 50/60Hz
Sensor type: SnO2 Semiconductor
Tripping threshold: 10% L.E.L.
Output (relay): 5(2)A 250 Vac SPDT
Sensor useful life: 5 years
Green LED signalling: Detector active
Yellow LED indication: Detector faulty
Red LED signalling: Alarm
Degree of protection: IP42
Dimension (LxHxP): 85x107x38 mm

Note:
before starting to use Controlgas 4, please refer to the regulations in force in your specificy Country to check the effective applicability.

CEI UNI EN 50194



Controlgas 4 gas leak detector

Model	Pcs. pack	Code	Price €
Methane	1	02204138	184,90

Wiring diagrams for connection with 230 Vac gas solenoid valve: see Complete Technical Attachments.

Solenoid valves for gas

Solenoid valves

Technical data
Supply voltage 230 Vac / 50-60 Hz
Thread connection in according to UNI EN 10226
Maximum operating pressure: 500 mbar
Ambient temperautre: -15 ÷ 60 °C
Maximum surface temperature 80 °C
Closing time: < 1 s
Degree of protection: IP65



Manually-reset solenoid gas valve Normally Closed

Dimension	Type	Pcs. pack	Code	Price €
F-F 1/2"	N.C. OT	1	00309050	124,10
F-F 3/4"	N.C. OT	1	00309052	124,10
F-F 1"	N.C. OT	1	00309057	136,20
F-F 1"	N.C. AL	1	00309056	161,00
F-F 1"1/4	N.C. AL	1	00309058	197,50
F-F 1"1/2	N.C. AL	1	00309060	197,50
F-F 2"	N.C. AL	1	00309062	278,50

N.C. = normally closed - OT = brass - AL = aluminium / Power absorbed: 9 W
CE homologation according to UNI EN 161
Conforms Gas Directive 2009/142/CE
Conforms Low Voltage Directive 2014/35/UE
Conforms Electromagnetic Compatibility Directive 2014/30/UE



Manually-reset solenoid gas valve Normally Opened

Dimension	Type	Pcs. pack	Code	Price €
F-F 1/2"	N.A. OT	1	00308500	83,47
F-F 3/4"	N.A. OT	1	00308502	91,49
F-F 1"	N.A. OT	1	00308504	109,50
F-F 3/4"	N.A. AL	1	00308034	123,50
F-F 1"	N.A. AL	1	00308100	123,50
F-F 1"1/4	N.A. AL	1	00308114	169,80
F-F 1"1/2	N.A. AL	1	00308112	169,80
F-F 2"	N.A. AL	1	00308200	261,00

N.A. = normally opened - OT = brass - AL = aluminium / Power absorbed: 24 W
Conforms Gas Directive 2009/142/CE
Conforms Low Voltage Directive 2014/35/UE
Conforms Electromagnetic Compatibility Directive 2014/30/UE



Manually-reset solenoid gas valve with flange Normally Closed

Dimension	Type	Pcs. pack	Code	Price €
2"1/2 DN 65	N.C. AL	1	00309064	671,20
3" DN 80	N.C. AL	1	00309066	771,90
4" DN 100	N.C. AL	1	00309068	1.482,00

N.C. = normally closed - OT = brass - AL = aluminium / Power absorbed: 18 W
Thread connection in according to ISO 7005
CE homologation according to UNI EN 161
Conforms Gas Directive 2009/142/CE
Conforms Low Voltage Directive 2014/35/UE
Conforms Electromagnetic Compatibility Directive 2014/30/UE



Manually-reset solenoid gas valve with flange Normally Opened

Dimension	Type	Pcs. pack	Code	Price €
2" 1/2 DN 65	N.A. AL	1	00308212	520,00
3" DN 80	N.A. AL	1	00308300	671,20
4" DN 100	N.A. AL	1	00308400	1.183,00

N.A. = normally opened - OT = brass - AL = aluminium / Power absorbed: 23 W
Thread connection in according to ISO 7005
Conforms Gas Directive 2009/142/CE
Conforms Low Voltage Directive 2014/35/UE
Conforms Electromagnetic Compatibility Directive 2014/30/UE



Tanks, solar panels and accessories for solar systems

WEB

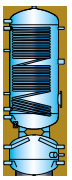
SCAN

> Tanks and accumulators for DHW and heating



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> HYBV1S - Double storage for DHW and technical water



365

> EB EBN - Heating water storage for integrated systems



366

> Accessories for tanks and Boguard electronic anode



367

> Thermostatic mixers



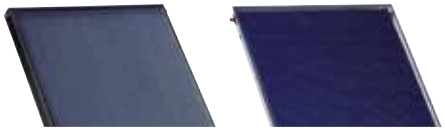
370

> HEVSN - Solar kit



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> Arcobaleno - solar collectors



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> Accessories for Arcobaleno solar collectors



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> NVSN - Natural circulation solar kit



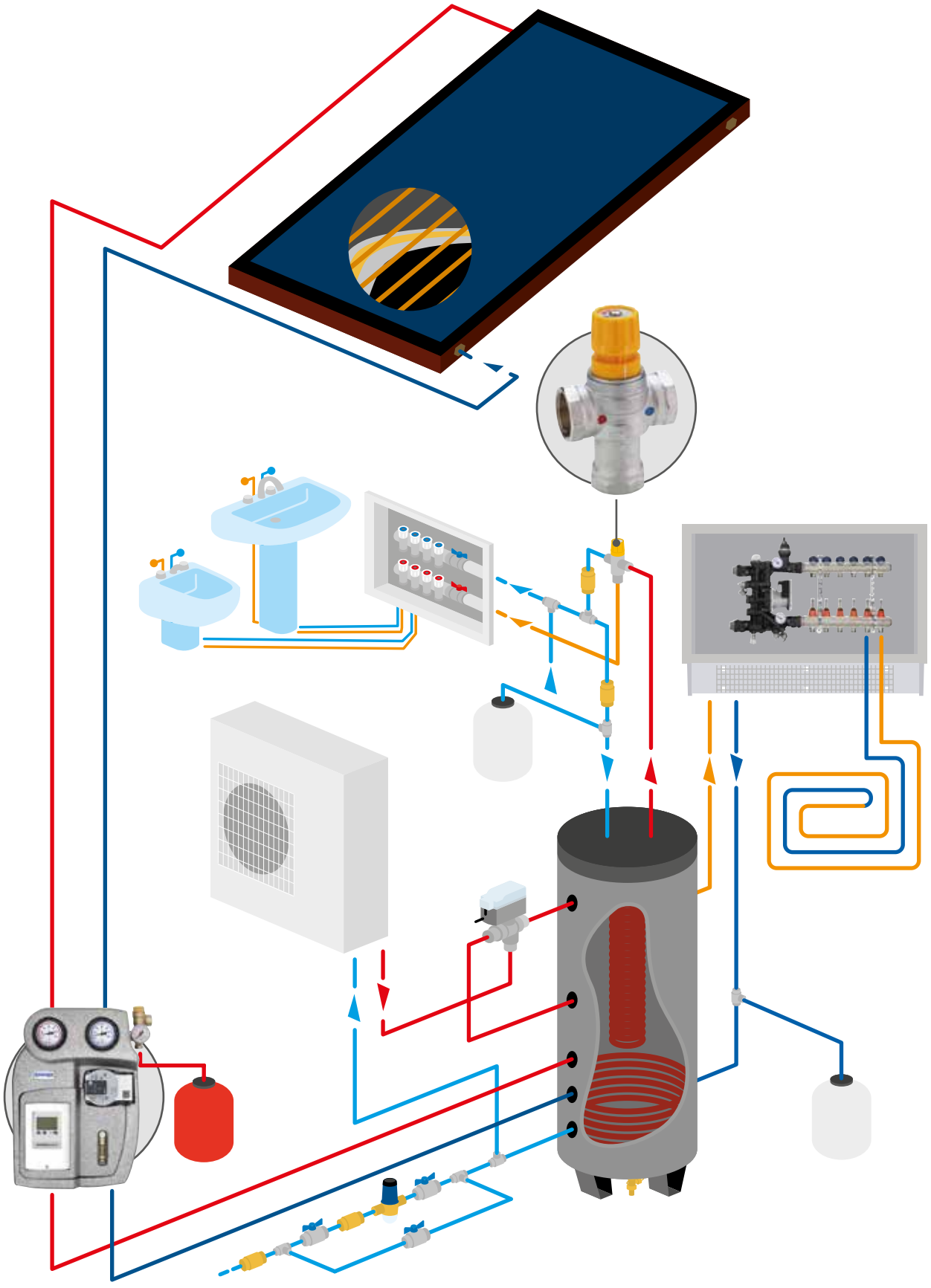
392

> Accessories for solar systems



400

Example of installation



Tanks for domestic and heating water



Technical data
Enamelled tanks (organic enamelling):
- Maximum operating pressure: 6 bar
- Maximum continuous operating temperature: 70 °C (95 °C peak for max 20 hours per year)

Vitrified tanks (inorganic enamelling):
- Maximum operating pressure: 10 bar (8 bar for models from 1500, 2000 and 3000)
- Maximum continuous operating temperature: 95 °C

For ETW Inox tanks:
- maximum working pressure: 5 bar
- maximum accumulation temperature in continuous operation: 95 °C

Conformity
Emmeti tanks and coils satisfy the requirements requested by the directive 2014/68/UE "Pressure equipment" in appliance to art. 4 codicil 3 of the above mentioned directive, to be used with warm or cool water.

Fire reaction class
- For foamed tanks: class F (UNI EN 13501-1)
- For tanks with polyester insulation: class B-s2, d0 (UNI EN 13501-1)

Threads
G (ISO 228-1)

Dimensions and technical datas and diagrams: see section technical attachments

Resistance to corrosion
The corrosion protection and suitability for drinking water are obtained by:
- glazed tanks: inorganic enamelling (glazing) in accordance with current regulations (DIN 4753-3 and UNI 10025);
- enamel tanks: organic enamelling (treatment with thermosetting resins).

The insertion of the anode electronic Boguard (1/2"M) provides further protection of the metal surfaces.

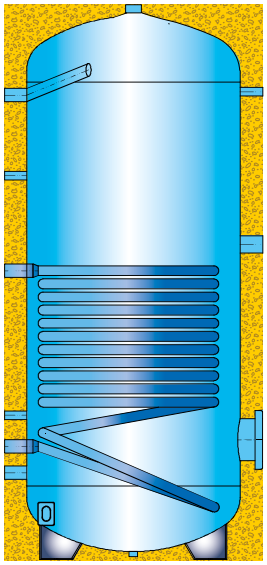
To prevent the perforation of the tank, avoid the presence of stray currents from external parts.
In this sense, connect with suitable dielectric joints and in the case of a tank equipped with a magnesium anode, prepare the ground circuit effectively and make sure that it does not determine parasitic currents from entering the metal mass of the tank.

The warranty of the domestic tanks is bound by the value of the electrical conductivity of the water should not be less than 150 µS or above 1000 µS .

The failure to comply with the requirements will result in the invalidation of the warranty

Potable suitability

The products used for the vitrification and enamelling surface treatment of the internal surfaces of Emmeti tanks and storage tanks do not contain lead compounds in their formulation, pursuant to the Italian Ministerial Decree 174 of 6 April 2004 "Regulation concerning the materials and objects that can be used in fixed systems for the collection, treatment, adduction and distribution of water intended for human consumption".







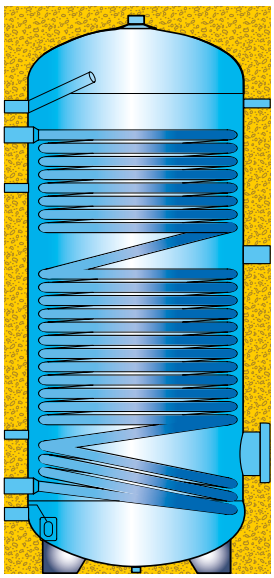


Euro V vitrified tanks for domestic hot water with fixed coil

Models	Class of energy efficiency	Pcs. pack	Code	Price €
150	B	1	02769110	1.487,00
200	C	1	02769120	1.682,00
300	C	1	02769130	1.956,00
500	C	1	02769141	2.636,00

Euro V tanks are supplied with closing flange DN180 installed, thermal insulation and an electronic anode.

Dimensions and technical data: see section Technical Attachments









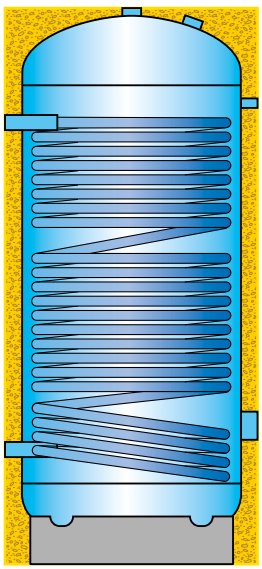
Euro HPV vitrified tanks for sanitary hot water production, with fixed coil, suitable for the use with heat pumps

Models	Class of energy efficiency	Pcs. pack	Code	Price €
200	C	1	02769230	2.088,00
NEW 300 + LS08 (*)	C	1	02769244	3.479,00
NEW 500 + LS12 (**)	C	1	02769254	4.256,30
1000	-	1	02769542	5.484,00

Euro HPV tanks are supplied with closing flange DN180 installed and equipped with thermal insulation and electronic anode.

(*) Kit including Euro HPV 300 storage tank and LS08 coil
(**) Kit including Euro HPV 500 storage tank and LS12 coil

Dimensions and technical data: see section Technical Attachments









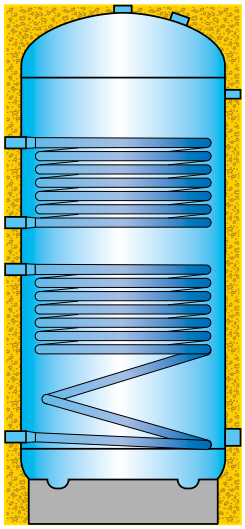
Euro HPVE vitrified storage tank for the production of hot water with fixed coil, suitable for use with heat pump

NEW

Models	Class of energy efficiency	Pcs. pack	Code	Price €
300	B	1	02769242	2.795,00
500	C	1	02769252	3.597,00

Euro HPVE tanks are supplied with thermal insulation and electronic anode.

Dimensions and technical data: see section Technical At tachments



Models 200 ÷ 1000



Models 1500 ÷ 2000







HE2VE vitrified tanks for domestic hot water

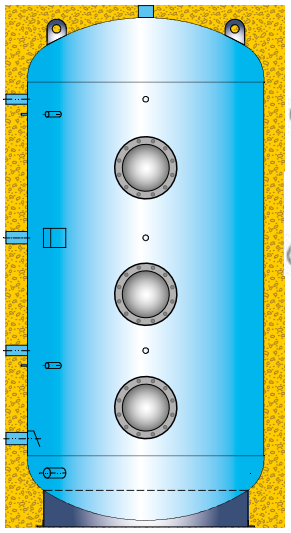
NEW

Models	Class of energy efficiency	Pcs. pack	Code	Price €
200	B	1	02763170	2.000,00
300	B	1	02763172	2.191,00
500	C	1	02763174	3.158,00
750	-	1	02763176	4.643,00
1000	-	1	02763178	4.788,00
1500 (*)	-	1	02763180	8.095,00
2000 (*)	-	1	02763182	9.667,00

Equipped with thermal insulation and electronic anode.

(*) Items on request

Dimensions and technical data: see section Technical Attachments



Models 200 ÷ 1000



Models 1500 ÷ 3000







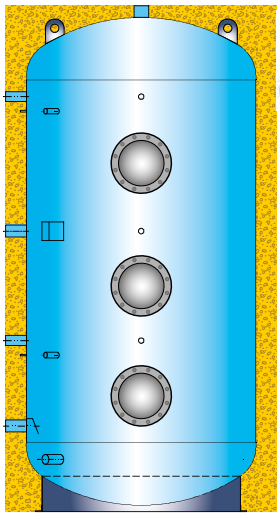
Comfort V vitrified tanks for domestic hot water (without coils)

Models	Nr. flanges	Class of energy efficiency	Pcs. pack	Code	Price €
200	2	C	1	02769508	1.624,00
300	2	C	1	02769510	1.725,00
500	2	C	1	02769512	2.596,00
750	3	-	1	02769514	3.144,00
1000	3	-	1	02769516	3.413,00
1500	3	-	1	02769518	7.046,00
2000	3	-	1	02769520	8.024,00
3000	3	-	1	02769522	10.630,00

Comfort V tanks are supplied with closing flanges DN290 installed and equipped with thermal insulation and electronic anodes (*).
To complete the tank, the coil must be ordered.

COILS ARE NOT INCLUDED].
(*) single for models from 200 to 1000; double for models from 1500 to 3000.

Dimensions and technical data: see section Technical Attachments









Comfort S enamelled tanks for domestic hot water (without coils)

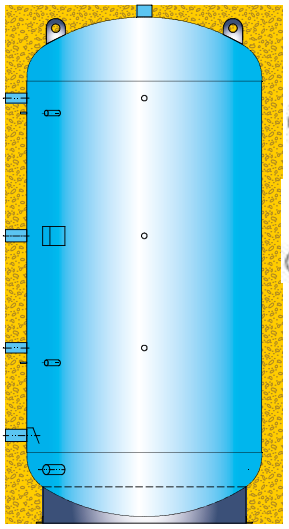
Models	Nr. flanges	Pcs. pack	Code	Price €
1500	3	1	02769536	4.344,00
2000	3	1	02769538	5.151,00
3000	3	1	02769540	6.154,00

The Comfort S tanks are supplied with closing flanges DN290 installed and equipped with thermal insulation and double electronic anode.
Their completion requires the insertion of the coil chosen.

COILS ARE NOT INCLUDED

Tank not suitable for solar panels

Dimensions and technical data: see section Technical Attachments



Models 200 ÷ 1000



Models 1500 ÷ 2000



Potable suitability

5 Years
Warranty

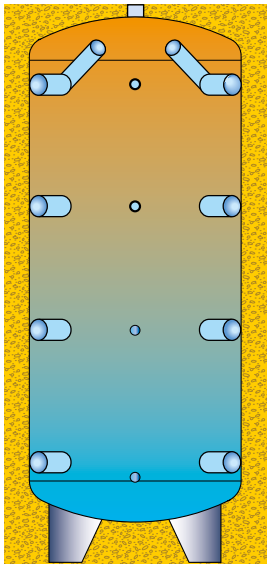
Vitrified tanks for domestic hot water (without coils)

Models	Nr. Flanges	Class of energy efficiency	Pcs. pack	Code	Price €
300	-	C	1	02769524	1.706,00
500	-	C	1	02769526	2.208,00
750	-	-	1	02769528	2.838,00
1000	-	-	1	02769530	3.137,00
1500	-	-	1	02769532	6.092,00
2000	1	-	1	02769534	7.100,00

Vitrified tanks are supplied with thermal insulation and electronic anode (single for models from 300 to 1000 and double for models from 1500 to 2000).

Only on the model 2000 is supplied with DN290 flange with sealing flange mounted.

Dimensions and technical data: see section Technical Attachments



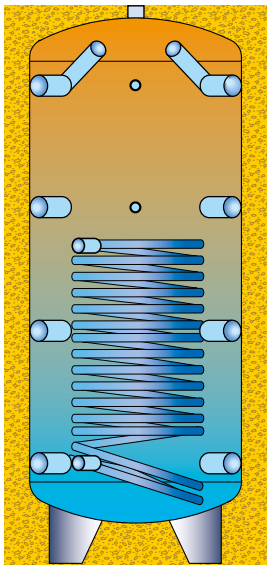
5 Years
Warranty

Puffer for heating water

Liters	Class of energy efficiency	Pcs. pack	Code	Price €
300 N	C	1	02704603	1.407,00
500 N	C	1	02704623	1.543,00
1000 N	-	1	02704643	2.148,00
1500 N	-	1	02704663	2.531,00
2000 N	-	1	02704673	4.037,00

Supplied with thermal insulation.
Availables on request: 30 days to order confirm.

Dimensions and technical data: see section Technical Attachments



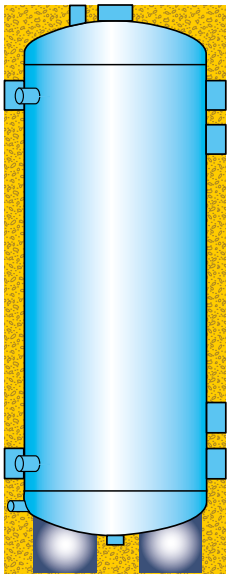
5 Years
Warranty

Puffer for heating water with coil

Liters	Class of energy efficiency	Pcs. pack	Code	Price €
300 N 1S	C	1	02704803	1.543,00
500 N 1S	C	1	02704823	1.752,00
1000 N 1S	-	1	02704843	2.561,00
1500 N 1S	-	1	02704863	4.037,00
2000 N 1S	-	1	02704873	4.411,00

Supplied with thermal insulation.
Availables on request: 30 days to order confirm.

Dimensions and technical data: see section Technical Attachments



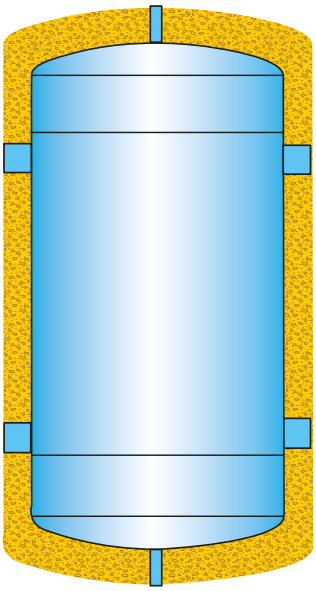
2 Years Warranty

ETW tanks for hot and cold technical water

Models	Class of energy efficiency	Pcs. pack	Code	Price €
ETW 25	A	1	02704240	669,40
ETW 60	B	1	02704250	789,90
ETW 120	B	1	02704260	913,60
ETW 200	C	1	02704270	1.181,00
ETW 280	C	1	02704274	1.346,00

Supplied with thermal insulation.

Dimensions and technical data: see section Technical Attachments



2 Years Warranty

ETW Inox storage tank for hot and cold technical water

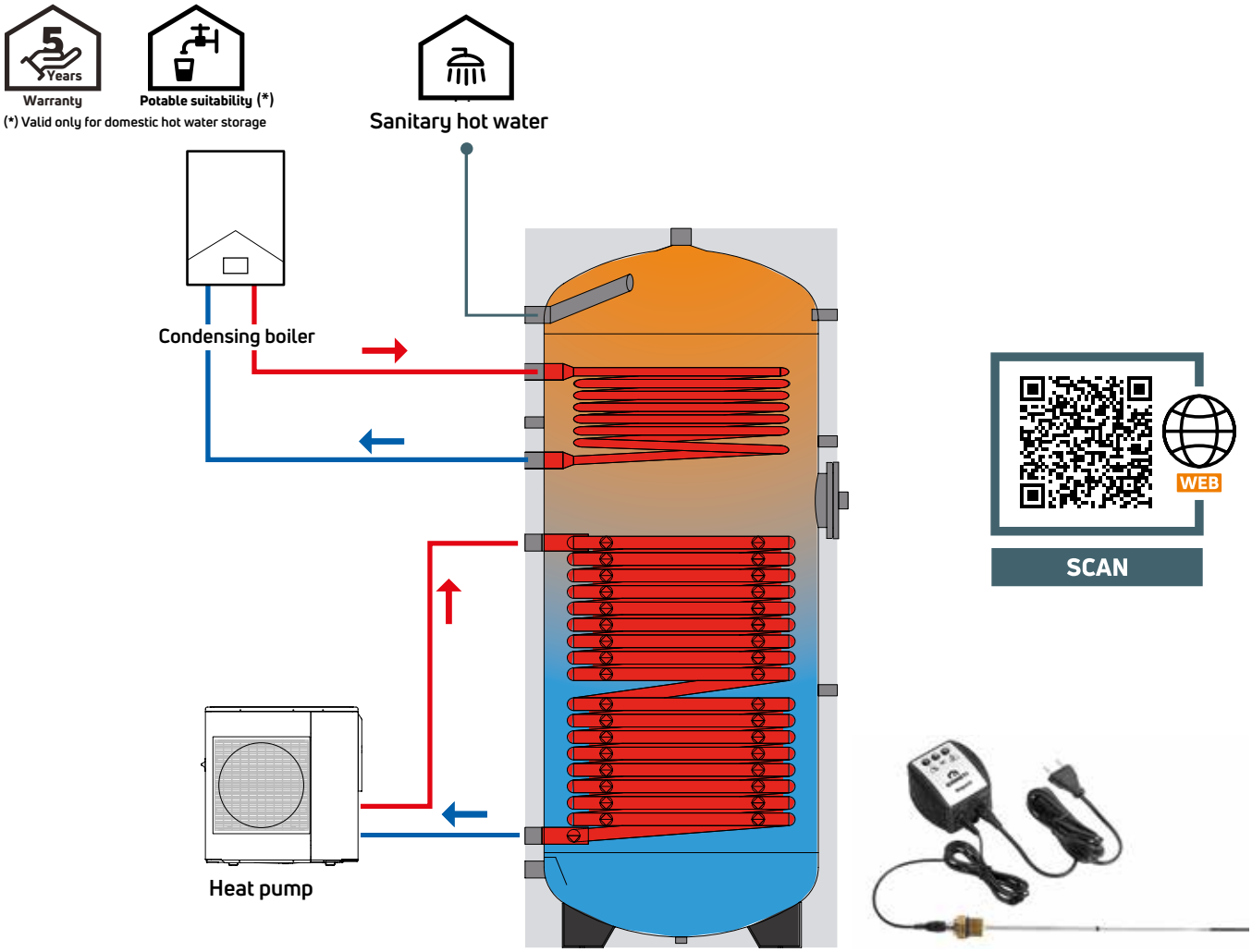
Model	Class of energy efficiency	Pcs. pack	Code	Price €
ETW 26	C	1	02705240	788,40
ETW 51	C	1	02705250	926,95

Supplied with thermal insulation.

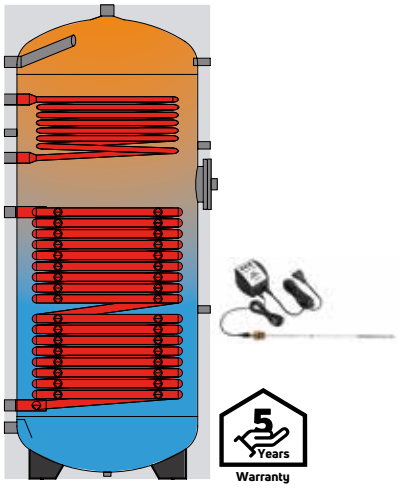
Dimensions and technical data: see section Technical Attachments

HP2V

Storage tanks for the production of domestic hot water with use of heat pump and boiler



The HP2V series storage tanks are suitable for the production of domestic hot water using a heat pump and boiler. They are supplied with the closing flange mounted and provided with thermal insulation and nr. 1 electronic anode.



HP2V storage tank for the production of domestic hot water with the use of a heat pump and boiler

Model	Pcs. pack	Code	Price €
HP2V 300	1	02763990	3.439,00
HP2V 500	1	02763992	4.180,00
HP2V 750	1	02763994	5.527,00
HP2V 1000	1	02763996	6.661,00

The price includes the mounted closing flange, thermal insulation and electronic anode.

Dimensions and technical data: see section Technical Attachments

HYBV1S

Combined tank, double tank for the production of domestic hot water and heat pump system

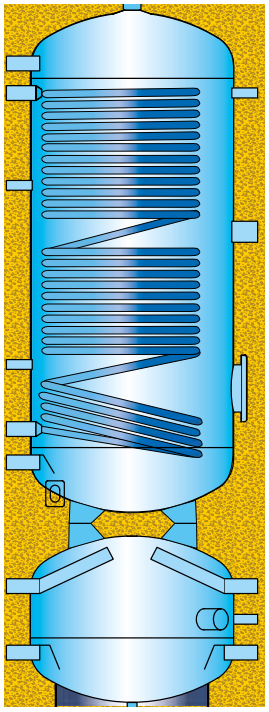
5 Years
Warranty

Potable suitability
Valid only for domestic hot water storage

Cooling Function

Heating Function

Sanitary hot water





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SCAN

The HYBV1S series storage tanks consist of a double storage tank for the production of domestic hot water from a heat pump with thermal flywheel for hot or chilled technical water.
The HYBV1S storage tanks are supplied with a DN180 closing flange mounted (for possible integration with solar thermal through an additional coil to be purchased separately), equipped with thermal insulation and nr. 1 electronic anode.

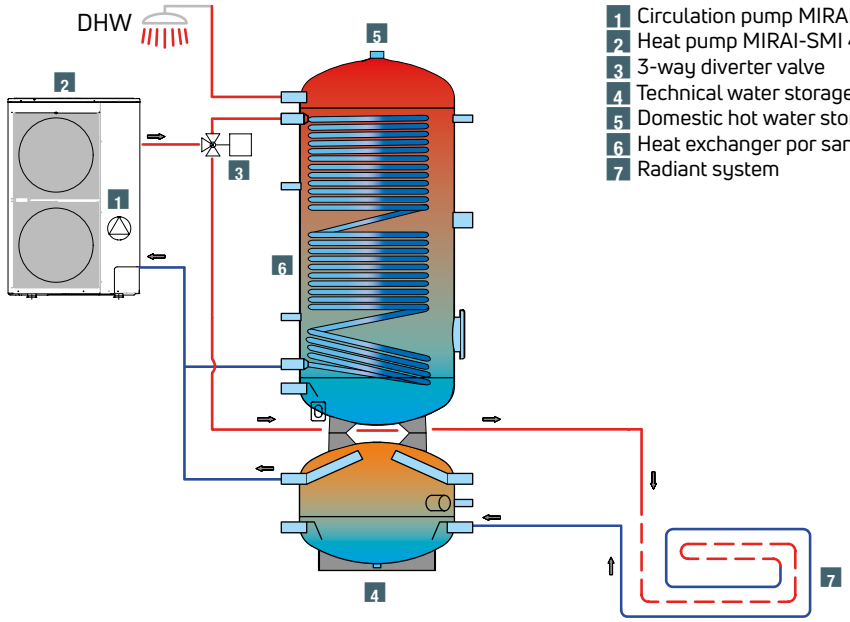
Double tank for sanitary water and technical water

Models	Energy efficiency class	Pcs. pack	Code	Price €
HYBV1S 300	B	1	02769282	5.148,00
HYBV1S 500	B	1	02769292	6.412,00

The price includes thermal insulation.

Dimensions and technical data: see section Technical Attachments

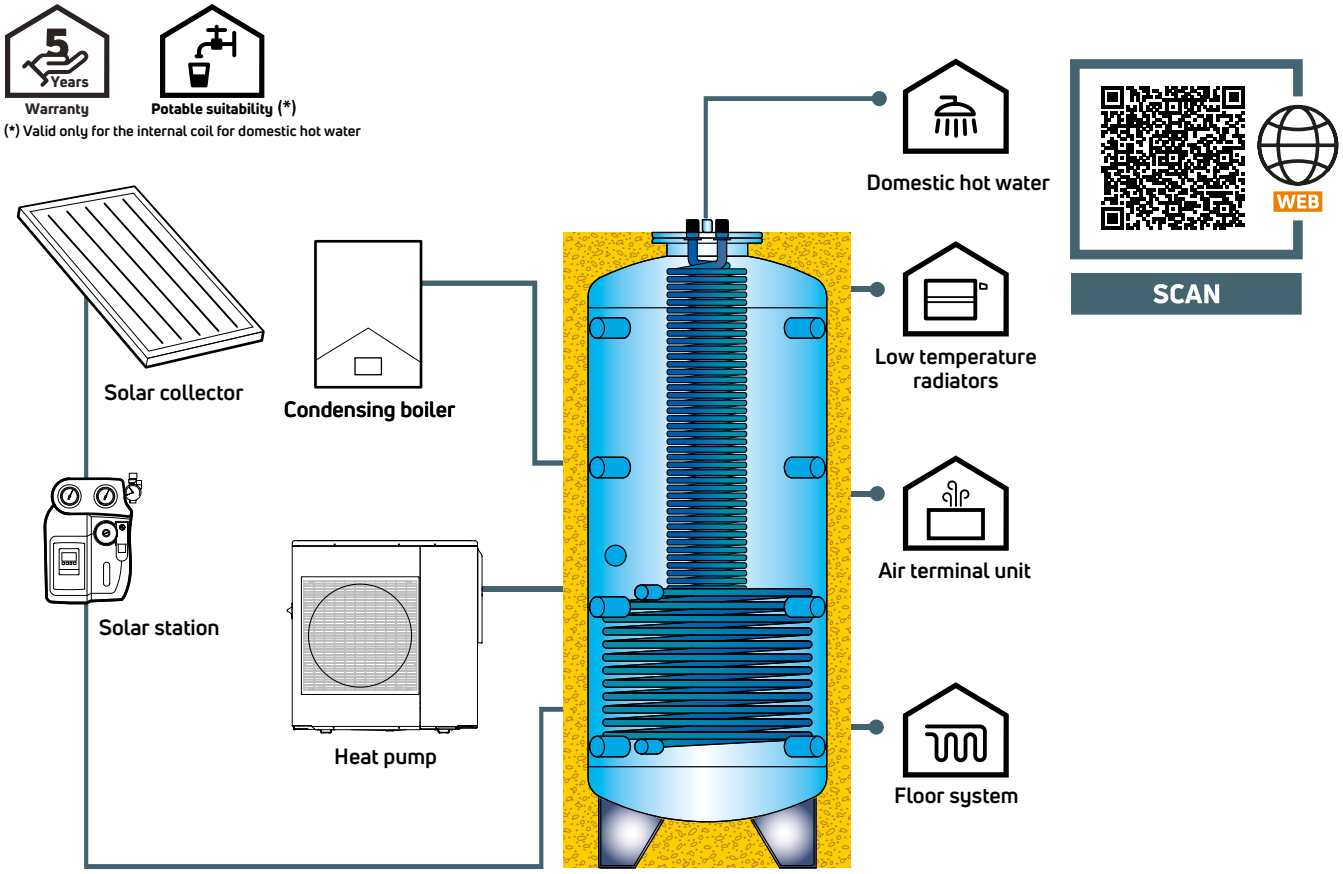
Example of HYBV1S installation with radiant panels and domestic hot water production.



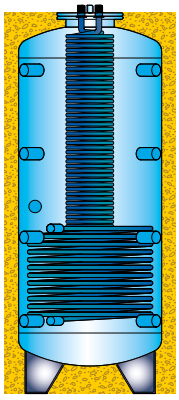
1. Circulation pump MIRAI-SMI 4.0
2. Heat pump MIRAI-SMI 4.0
3. 3-way diverter valve
4. Technical water storage
5. Domestic hot water storage
6. Heat exchanger por sanitary hot water from heat pump
7. Radiant system

EBN - EB

Heating water tank for integrated systems



EBN300-500 and EB1000-1500 tanks have been designed to integrate more energy sources existing in the heating system, for example: heat pumps, solar collectors, gas boiler, thermo fireplaces, etc.



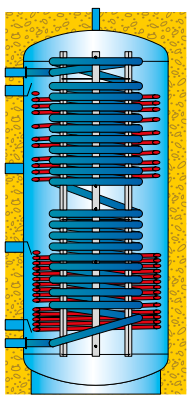
5 Years
Warranty

Tank of water heating EBN300 and EBN500

Models	Class of energy efficiency	Pcs. pack	Code	Price €
EBN300	B	1	02704331	3.706,00
EBN500	C	1	02704333	4.128,00

The price includes thermal insulation.

Dimensions and technical data: see section Technical Attachments



5 Years
Warranty

Tank of water heating EB1000-S30-AS76 AUX20 and EB1500-S35-AS50-AUX30

Models	Class of energy efficiency	Pcs. pack	Code	Price €
EB1000-S30-AS76-AUX20	-	1	02704304	5.128,00
EB1500-S35-AS89-AUX30	-	1	02704306	6.506,00

The price includes thermal insulation.

Dimensions and technical data: see section Technical Attachments

Accessories for tanks

SCAN





LS coil kit in tinned finned copper for HEVSN, Euro V, Euro HPV, HYBV1S, HP2V tanks

Dimension	Pcs. pack	Code	Price €
LS 08 (*)	1	02792030	714,40
LS 12 (**)	1	02792040	896,30

Including flange DN180 and gasket, flange cover and washers and dielectric joints.

(*) LS 08 - Can be used on Euro V 150 - 200 - 300 - 500, Euro HPV 200 - 300 - 500 - 1000, HYBV1S 300 - 500, HP2V 300 - 500 - 750 - 1000, HEVSN 300 - 500.

(**) LS 12 - Can be used on Euro V 500, Euro HPV 500 - 1000, HYBV1S 500, HP2V 500 - 750 - 1000, HEVSN 500.

Dimensions: see section Technical Attachments



Coils kit LN in finned copper suitable for Comfort V, Comfort S and vitrified accumulation 2000

Dimension	Capacity (l)	Pcs. pack	Code	Price €
LN 12	200÷3000	1	02790580	554,30
LN 18	200÷3000	1	02790585	779,90
LN 26	500÷3000	1	02790590	940,70
LN 32	750÷3000	1	02790595	1.251,00
LN 45	750÷3000	1	02790600	1.866,00
LN 63	1500÷3000	1	02790605	2.124,00

Including flange DN290 and gasket, flange cover, washers and dielectric joints.

Dimensions: see section Technical Attachments



Electric resistance for tanks

Model	Power (kW)	Length (mm)	Pcs. pack	Code	Price €
SH-1,5 (*)	1,50	320	1	02702900	523,30
SH-2,0 (**)	2,00	320	1	02702902	523,30
SH-2,5 (**)	2,50	390	1	02702904	525,00
SH-3,0 (**)	3,00	390	1	02702906	536,30
SH-3,8 (***)	3,75	430	1	02702908	549,40
SH-4,5 (***)	4,50	470	1	02702910	575,80
SH-6,0 (***)	6,00	620	1	02702912	604,10
SH-7,5 (***)	7,50	720	1	02702914	608,50
SH-9,0 (***)	9,00	780	1	02702916	637,40

Heating surface electrically isolated by threaded connection.
Suitable for horizontal installation on tanks having manifolds not longer than 100 mm.
Connection: 1" 1/2 M (UNI EN ISO 228-1)
Voltage (V): (*) ~ 230 - (**) ~ 230 / 3 ~ 400 - (***) 3 ~ 400.
Degree of protection: IP44
Range of thermostat regulation: 30 ÷ 75 °C
Safety thermostat: 98 °C (- 10°)
Unheated zone (from threaded fitting): 120 mm

Availables on request: 21 days to order confirm

Compatibility: see section Technical Attachments



Predisposition kit for electric resistance 1"1/2 for tanks

Dimension	Pcs. pack	Code	Price €
KRE 180 (*)	1	02792020	122,00
KRE 180A (**)	1	02792018	125,30
KRE 290 (***)	1	02792022	187,80

Including flange DN 180/290 with sleeve F 1"1/2, gasket and flange cover (resistance not included).

(*) KRE 180 - Can be used on Euro V 150, 200, 300, 500 - Euro HPV 200 - 300 - 500 - HYBV1S 300, 500 - HP2V 300, 500 (only as spare part) - HEVSN 300, 500.

(**) KRE 180A - Can be used on Euro HPV 1000 - HP2V 750, 1000 (only as spare part).

(***) KRE 290 - Can be used on Comfort V 200, 300, 500, 750, 1000, 2000, 3000 - Comfort S 1500, 2000, 3000 - Storage tank V2000.



Immersion sleeves for thermometer in confirm to ISPESL norm, connection M 1/2"

Dimension	Pcs. pack	Code	Price €
Ø 7 L 50 mm (A)	1	00510682	7,45
Ø 9 L 50 mm (A)	20	00510012	4,04
Ø 10 L 50 mm (A)	12	00510684	7,75
Ø 10 L 100 mm (B)	12	00510686	10,09
Ø 10 L 302 mm (B)	1	00510690	13,49
Ø 15 L 110 mm (B)	12	00510688	7,90

Thread: G (UNI EN ISO 228-1)

Boguard

Electronic anode





The Boguard impressed-current electronic anodes, fitted with a system that automatically adjusts the protection potential, protect exposed surfaces from corrosion – as specified in DIN 4753 Part 3, para. 4.2.3, up to 100 cm^2 of the inner surface of tanks made of steel and enamelled with plastic resins or vitrified, within the 5000 liters of capacity. Unlike any other electronic anodes types on the market, Boguard contrasts any corrosion phenomena without producing a significant quantity of hydrogen into the tank; this gas besides being flammable, if in a not minimum quantity, might give rise to degradation of some types of internal covering of the tank.

Boguard has a series of new functions that make it a unique product on the market:
1) "Booster" function upon start-up that releases the maximum potential for a limited amount of time in order to accelerate the process to ensure protection for the tank.
2) Reports optimal operation.
3) Reports excessive tank absorption.
4) Reports when the tank absorption is under the threshold, indicates when there is a poor electric contact between the equipment and the activated titanium anode or water with extremely low electric conductivity.
5) Reports if the electric circuit is open, for instance a disconnected cable between the equipment and the activated titanium anode.
6) Reports a short-circuit between the positive pole and negative pole of the activated titanium anode.
7) Count of the anode's operating time under optimal conditions (no faults), expressed in years and months, it is shown upon start-up and cannot be changed.
8) Detection of electric leakage and stray currents (both direct current and alternated current) affecting the tank and that might significantly contribute to corroding the inside of the tank itself. These can be minor currents and therefore, although they do not trigger the system's electrical safety devices, they can cause considerable corrosive phenomena.
9) Reports installation faults, for instance exchangers with ineffective or missing dielectric joints.

Boguard is covered by a European patent application.

Technical data
Power supply: 230 Vac ± 10%, 50/60 Hz
Control voltage: 2,75 ÷ 3,8 Vdc
Protection level: IP55
Ambient operating temperature: 0 ÷ 45 °C
Electrode-holder cap threaded coupling: G 1/2'' Male
Electrode with rod, diameter 3 mm and activated titanium prod
Maximum power consumption: 2,7 VA

Dimensions: see section Technical Attachments

Boguard electronic anode

Tank capacity	Nr. of equipments	Nr. of electrodes for system	Electrode length	Code	Price €
150-500	1	1	380 mm	02791201	171,70
750-1000	1	1	430 mm	02791206	164,50
1500-5000	1	2	430 mm	02791211	242,00

Supplied as standard with an RCA connection cable, 2 meters long.

Accessories



RCA anode connection cable

Dimension	Pcs. pack	Code	Price €
2 m M/F	1	92797550	5,58

Thermostatic mixers

SCAN





Thermostatic mixer for domestic hot water

Thread G (UNI EN ISO 228-1)
Body made of brass UNI EN 12165 CW617N
Shutter in brass UNI EN 12165 CW614N
Maximum operating pressure 10 bar
Maximum differential pressure 3 bar
Maximum temperature hot water 85 °C
Range of temperature from 30 °C to 65 °C

Dimension	Kv	Pcs. pack	Code	Price €
1/2" F	1,6	1	09089400	101,70
3/4" F	1,8	1	09089402	111,20
1" F	3,2	1	09089404	156,40

For connections with pipe unions, see the following codes:
90027800 for 1/2" F model, 90027810 for 3/4" F model, 90028290 for 1" F model





Thermostatic mixer for domestic hot water

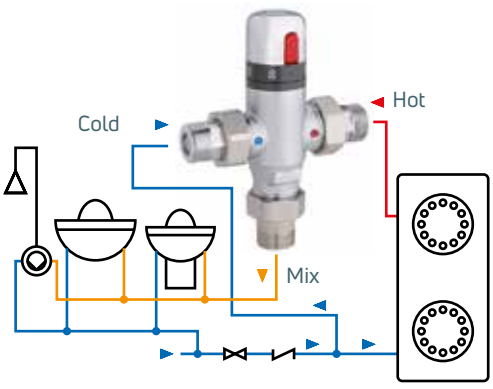
Thread G (UNI EN ISO 228-1)
Body made of brass UNI EN 12165 CW617N (chromed finish for sizes 1"1/4 and 1"1/2)
Shutter in UNI EN 12165 CW614N
Maximum operating pressure: 10 bar (up to size 1"1/2); 14 bar (model 2")
Maximum differential pressure: 3 bar (up to size 1"1/2); 5 bar (model 2")
Maximum temperature hot water: 85 °C (up to size 1"1/2); 110 °C (model 2")
Range of temperature: from 30 °C to 65 °C

Dimension	Kv	Pcs. pack	Code	Price €
1"1/4 M	7,4	1	09089414	525,90
1"1/2 M	7,6	1	09089416	859,80
2" M (*)	18	1	09089418	3.214,00

Items on request: 10 days from order confirmation

(*) size 2" is supplied complete with a shell for thermal insulation.

For connection with unions, use the following codes (3 pieces for each code):
1"1/4: 09208910, 4874R006, 4974G006;
1"1/2: 09208914, 4874R007, 4974G007.



Thermostatic mixer for domestic hot water with stop buttom and pipe union connection

Thread G (UNI EN ISO 228-1)
Body made of chromed brass UNI EN 12165 CW617N
Shutter UNI EN 12165 CW614N
Stop buttom at 38 °C
Supplied with tang 3/4" Male with check valves and nuts 1"
Maximum operating pressure 10 bar
Differential pressure 2 bar
Maximum temperature hot water 85 °C
Range of temperature from 20 °C to 65 °C
Range of knob from 20 °C to 50 °C

Dimension	Kv	Pcs. pack	Code	Price €
3/4"	1,70	1	09089406	232,30



Thermostatic mixer for domestic hot water for solar installation

Thread G (UNI EN ISO 228-1)
Body made of chromed brass UNI EN 12165 CW617N
Shutter UNI EN 12165 CW614N
Max pressure: 10 bar
Max imput temperature: 100° C
Regulation range: 30-65 °C

Dimension	Kv	Pcs. pack	Code	Price €
1/2" F	1,7	1	09089412	130,10
3/4" F	1,8	1	09089410	145,20
1" F	3,2	1	09089408	174,30

For connections with pipe unions, see the following codes:
90027800 for 1/2" F model, 90027810 for 3/4" F model, 90028290 for 1" F model



Self-actuated thermostatic diverter valve for domestic hot water and solar systems

Thread: G (UNI EN ISO 228-1)
Body made of chromed brass UNI EN 12165 CW617N
Shutter in UNI EN 12165 CW614N
Diverting temp. T = 45°C (T > 45 °C, fluid outlet side 1; T > 45°C, fluid outlet side 2)
Max operating pressure 10 bar - Recommended operating pressure 1-5 bar
Max inlet water temperature 100 °C - ΔT for deviator changeover 4.5 °C

Dimension	Kv	Pcs. pack	Code	Price €
1" M	1,9	1	02710560	145,20

For connections with union connections, see code 90027810



Solar kit adjustable diverter valve + mixing valve (to connect a thermal solar circuit with the boiler)

Maximum static pressure: 10 bar
Maximum dynamic pressure: 5 bar
Maximum input temperature: 100 °C (short period 120 °C per 20 sec.)
Field of regulation of the temperature-diverter: 38÷54 °C
Field of regulation of the temperature-mixer: 35÷60 °C (accuracy ± 1 °C)
Kv: 1,7 (for utilities up to 49 l/min, 3 bar)
Connections 3/4" M (swivel tang)
With retainer valve on cold water inlet and ACS inlet from solar storage tank
Tekeoffs 163 mm (95 mm tank)
Material: brass CW617N-DW (UNI EN 12164 e 12165)
Insulation box in EPP (Dimensions: 255 x 125 x 100 mm)

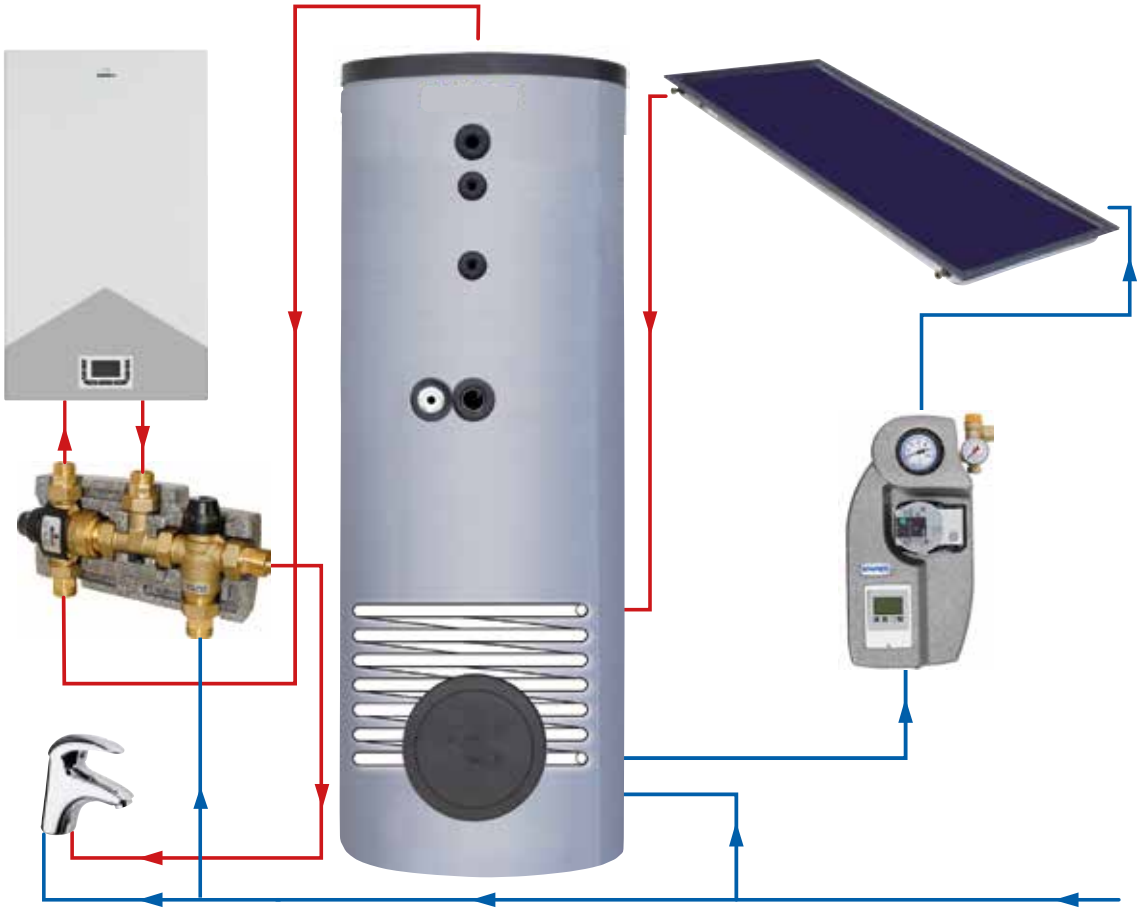
Inlet:
- 1" M diverter thermostatic valve with adjustable diverting temperature setting 38 ÷ 54 °C through graduated knob. Kv: 3,5.
- Solar non-return valve and filter fitted in the connection tang of the solar tank.
- T-shaped swivel fitting to connect the boiler with tank.

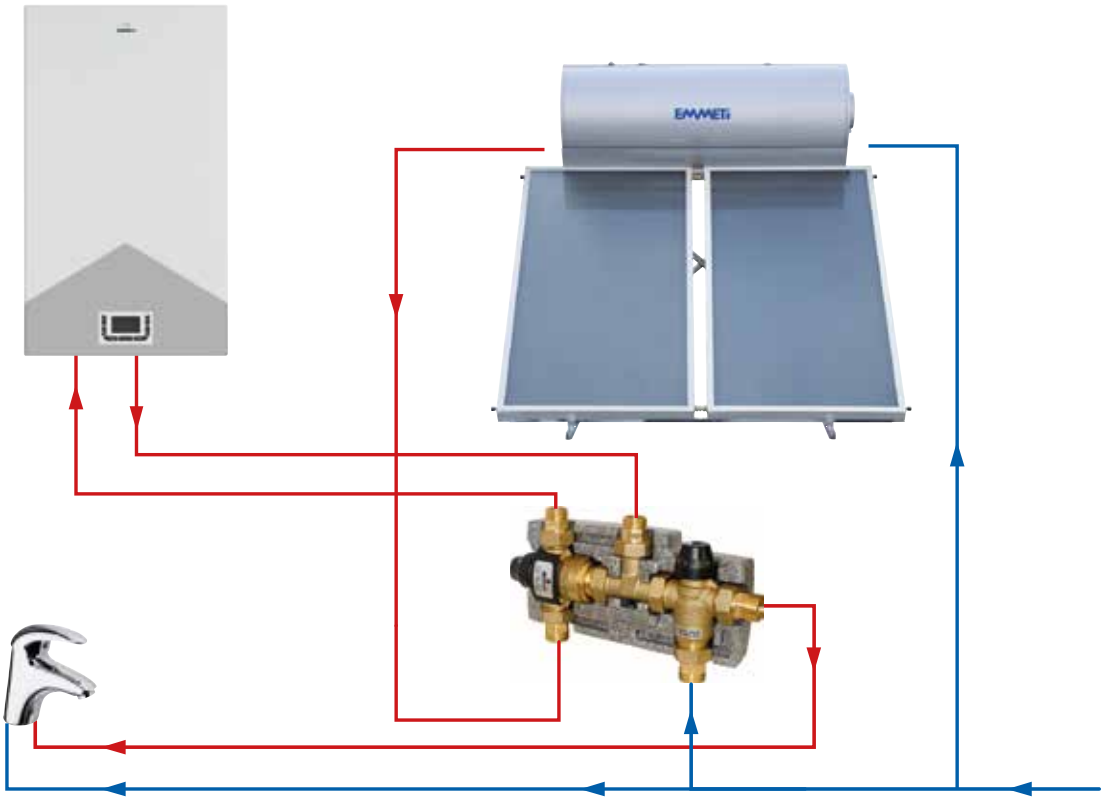
Output:
- 1" M thermostatic mixing valve anti-burn, with adjustable mixing temperature setting 35 ÷ 60 °C through graduated knob. Kv: 2,5.
- Solar non-return valve and filter inserted in the shank of cold water connection.

Dimension	Pcs. pack	Code	Price €
3/4"	1	02716860	377,00

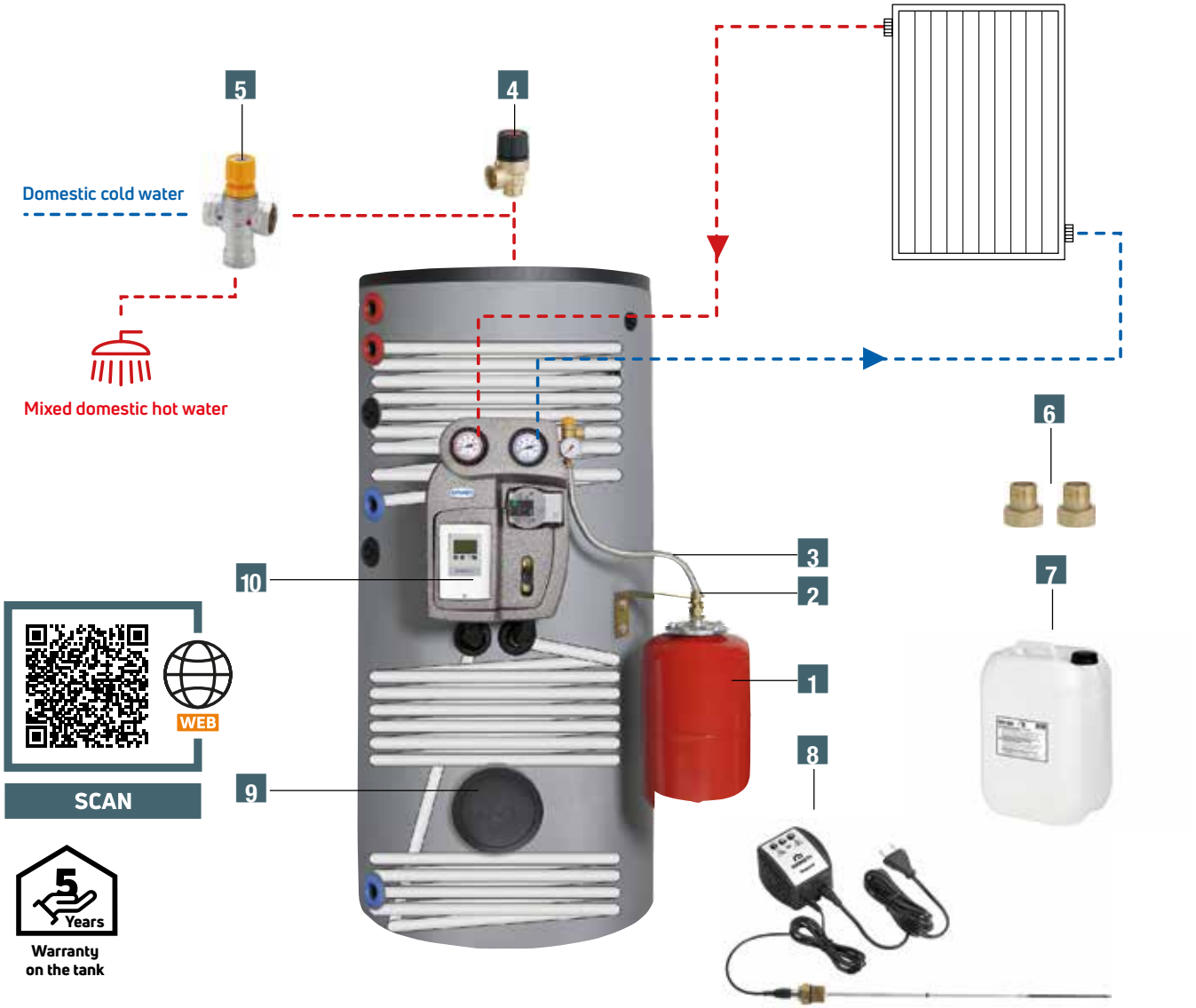
To connect a thermal solar circuit with the tank
Threads: G (ISO 228-1)

Examples solar Kit application





Solar kit HEVSN



Composition

Dimensions and technical data: see section Technical Attachments

1. 24 L solar expansion vessel
2. Bracket for fastening expansion vessel
3. Flexible hose kit
4. 6-bar safety valve for domestic circuit
5. 3/4" F thermostatic solar mixer
6. Pair of 3/4" M x 1" F fittings
7. Premixed protective non-toxic antifreeze (three packs of 5 kg for the 300 L kit and one pack of 25 kg for the 500 L kit)
8. Electronic anode
9. Auxiliary DN 180 flange
10. SSX 12 NP solar station

HEVSN solar kit



Solar kit HEVSN 300

Consisting of: HEVSN solar tank, preassembled built-in SSX 12 NP solar station on the tank, expansion vessel and related accessories, electronic anode, three packs of propylene glycols of 5 kg, thermostatic solar mixer and safety valve for hydraulic circuit.

The HEVSN solar tanks are glazed and have two fixed coils.
The solar coil is positioned in the lower part and is an anti-stratification type. In addition, an auxiliary DN180 flange is present, which permits insertion of an electric resistance or removable coil (LS 08).
Tank:
Useful volume: 273 liters
Dispersion: 63 W
Class Energy efficiency: B

Dimension of boiler	Pcs. pack	Code	Price €
300 L	1	02770001	4.175,00

Vitrified, complete with accessories (preassembled solar station and expansion vessel for solar circuit)



Solar kit HEVSN 500

Consisting of: HEVSN solar tank, preassembled built-in SSX 12 NP solar station on the tank, expansion vessel and related accessories, electronic anode, one pack of propylene glycol of 25 kg, thermostatic solar mixer and safety valve for hydraulic circuit.

The HEVSN solar tanks are glazed and have two fixed coils.
The solar coil is positioned in the lower part and is an anti-stratification type. In addition, an auxiliary DN180 flange is present, which permits insertion of an electric resistance or removable coil (LS 08 or LS 12).
Tank:
Useful volume: 475 liters
Dispersion: 80 W
Class Energy efficiency: B

Dimension of boiler	Pcs. pack	Code	Price €
500 L	1	02770011	5.104,00

Vitrified, complete with accessories (preassembled solar station and expansion vessel for solar circuit)

Accessories for HEVSN solar tank kit



LS coil kit in tinned finned copper for HEVSN, Euro V, Euro HPV, HYBV1S, HP2V tanks

Dimension	Pcs. pack	Code	Price €
LS 08 (*)	1	02792030	714,40
LS 12 (**)	1	02792040	896,30

Including flange DN 180 and gasket, flange cover and washers.
(*) LS 08 - Can be used on Euro V 150 - 200 - 300 - 500, Euro HPV 200 - 300 - 500 - 1000, HYBV1S 300 - 500, HP2V 300 - 500 - 750 - 1000, HEVSN 300 - 500.

(**) LS 12 - Can be used on Euro V 500, Euro HPV 500 - 1000, HYBV1S 500, HP2V 500 - 750 - 1000, HEVSN 500.

Dimensions: see section Technical Attachments



Predisposition kit for electric resistance 1" 1/2 for HEVSN, Euro V, Euro HPV, HYBV1S tanks

Dimension	Pcs. pack	Code	Price €
KRE 180 (*)	1	02792020	122,00

Including flange DN 180 with sleeve F 1"1/2, gasket and flange cover (resistance not included).

(*) KRE 180 - Can be used on Euro V 150, 200, 300, 500 - Euro HPV 200 - 300 - 500 - HYBV1S 300, 500 - HP2V 300, 500 (only as spare part) - HEVSN 300, 500.

Rapid domestic hot water production module

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Rapid domestic hot water production module

For power up to 100 kW with ACS flow rates up to 40 l/min
Maximum allowable pressure: 6 bar
Operating pressure: 2÷95 °C
Rated temperature of domestic hot water 45 °C adjustable from 30 to 70 °C
Recirculation temperature adjustable up to 40 °C
Recirculation programmable on three time slots for each day of the week
Flow rate of domestic hot water variable 2÷40 l/min
Unit EHWS 3 2015 pre-wired and featuring 3 Pt1000 probes.
Anti-legionella and function and detailed metering (*) of the power used thanks to the digital sensor.
Brazed plate exchanger made of stainless steel AISI 316 with 40 plates.
Pipe couplings 3/4" M.
With check valve on cold water and recirculation input (3 and 5 points).
Minimum diameters of the pipes: DN20 (Cu 22x1); DN15 for the recirculation line.
Circulation pump Yonos Para RS 15/7.5 PWM for the primary circuit.
Circulation pump ECO CIRC PRO 15-3/65 for recirculation.

Equipped with rear metal plate for mounting.

Insulation box in EPP (Dimensions: 398x500x207 mm)

(*) The instrument is not certified in compliance with Directive 2004/22/EC - MID.

1 Puffer flow
2 Puffer Return
3 Water supply (10 ° C)
4 Hot water
5 Recirculation

Model	Nr. plates	Pcs. pack	Code	Price €
SSHWR 40 N (**)	40	1	02716830	3.670,00
SSHNR 40 N (***)	40	1	02716878	3.237,00

(**) With recirculation
(***) Without recirculation

Applications: on inertial accumulators connected to thermal solar circuits, wood, pellet, biomass boilers, etc.
The device ensures the production of instantaneous domestic hot water avoiding bacterial pollution (such as legionella) due to the stagnation of heated water in the tank.

Items availables on request

Rapid domestic hot water production module



Thermostatic module SSHNT 40 N to produce rapid domestic hot water

For power up to 100 kW with DHW up to 40 l/min
Maximum allowable pressure: 6 bar - Operating temperature: 2÷95°C
Rated domestic hot water temperature 45 °C, adjustable up to 70 °C with a thermostatic mixing valve
Differential pressure switch for activation of the circulator pump (already with flow rates less than 1 l/min)
Braze-welded plate heat exchanger made of AISI 316 stainless steel with 40 plates
Wilo Yonos Para RS 15/7.5 RKC circulator pump
3/4" M pipe couplings
With check valve on cold water input (3 points)
Minimum pipe diameters: DN20 (Cu 22x1)
Provided with rear metal plate for mounting

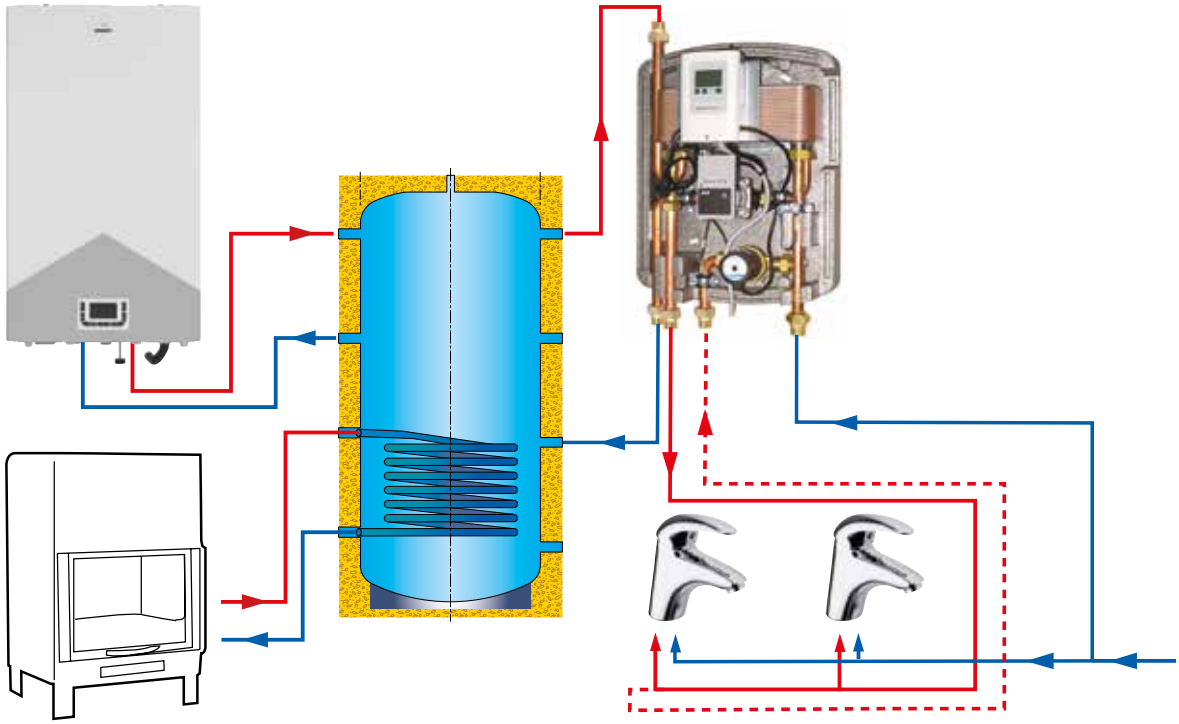
1 Puffer Flow
2 Return to Puffer
3 Water mains supply 10°C
4 Domestic hot water

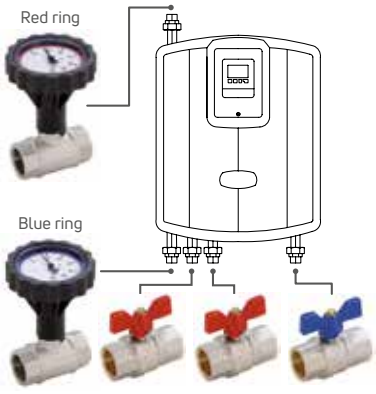
Option of installing several modules upon request.

Dimension	Nr. plates	Pcs. pack	Code	Price €
SSHNT 40 N	40	1	02716880	2.493,00

Application on puffer tanks connected to traditional thermal circuits, wood, pellet, biomass, etc.
The device guarantees the production of instant domestic hot water and prevents the occurrence of bacterial pollution phenomena (such as legionellosis) caused by stagnation of the water heated in the tank. Possibility of installing multiple modules in cascade.
Available on request: 30 days from order confirmation

Installation example of a thermostatic module to produce rapid domestic hot water





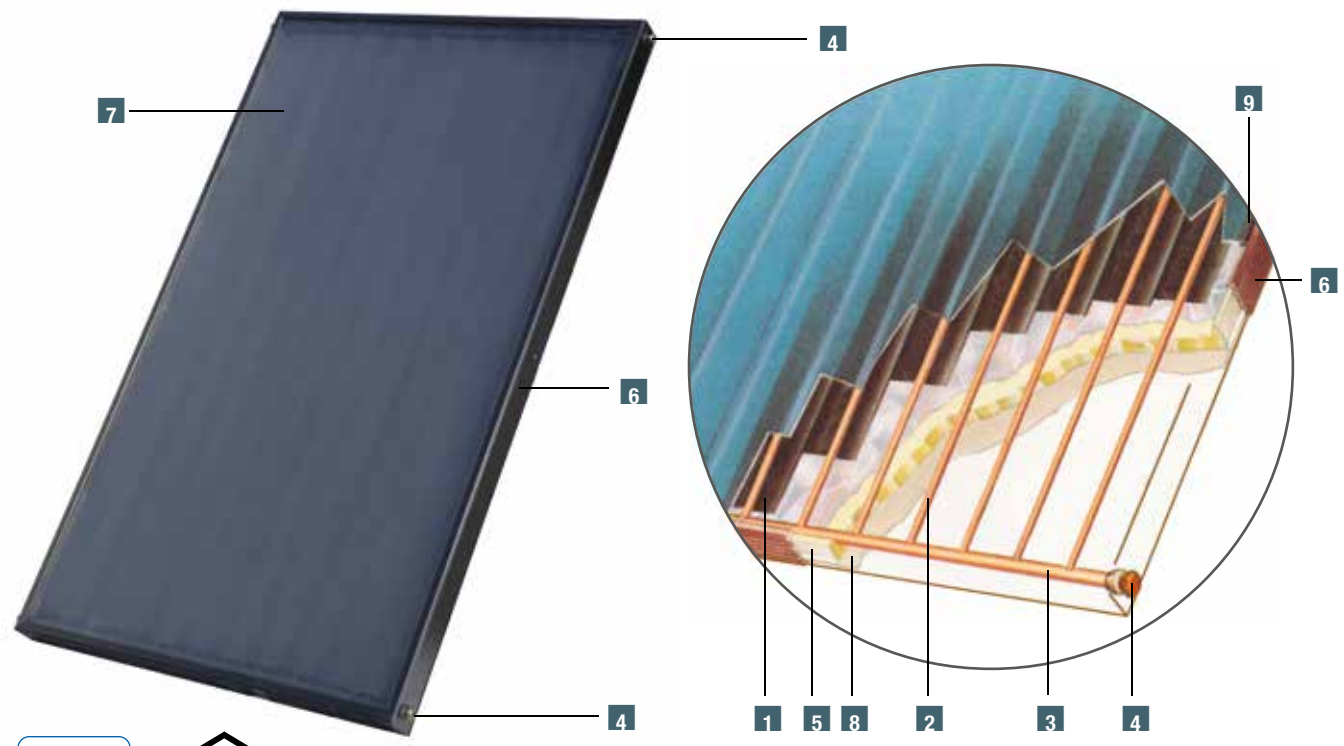
Kit valves for rapid domestic hot water production module

Dimension	Pcs. pack	Code	Price €
3/4" F-F	1	02707900	130,10

For models SSHWR 40 N, SSHNR 40 N, SSHNT 40 N.
Composed of 2 valves with thermometer, 2 ball valves with red handle and 1 ball valve with blue handle.

Arcobaleno

Solar collectors



Warranty

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SCAN

Uses
The Arcobaleno solar collectors can be used in closed circuit hot water production systems for sanitary use, for heating swimming pools, as well as for pre-heating or completion of room heating, for example in the case of the use of radiating panels. The fields of use in construction, both public and private, run the range from wellings to common areas, from the tourism/lodging sector to manufacturing activities.
For temperatures below 0 °C, as a heat-carrying fluid in the solar collectors a water-antifreeze solution must be used with a concentration that is suitable to prevent damage from freezing. The solar collectors must be firmly attached and installed incompliance with current standards.
Optimal inclination varies depending on use.
The orientation of the collectors must be towards the equator (southeast since the afternoon hours are the warmest).

Utility
The initial investment for the creation of a solar energy system is rewarded by the fact that there are practically no operating costs. The only energy expenses are the electrical energy used by the circulating pump (if there is one).
Considering the current costs and the continuing increases in traditional energy sources (methane, LPG, fuel oil), the use of a solar energy system is fully justified, now more than ever.

Norms
Arcobaleno solar collector type "NS", "SRTO", "SRTV" and "SXM" complies to UNI EN 12975-1 and UNI EN ISO 9806 and is certified Solar Keymark.

UNI EN 12975-1
UNI EN ISO 9806

Dimensions, technical data and diagrams: see section technical attachments

Solar collectors

Arcobaleno construction type SRTV

1 Capturing surface: single aluminium plate, thickness 0.4 mm with highly selective covering with laser welding
2 Pipes: 14 copper pipes, Ø 8 mm, thickness 0.4 mm
3 Collector: copper pipe Ø 22 mm, thickness 0.8 mm
4 Fittings: 4 (2 pieces size 1" M and 2 pieces size 1" F with swivel joint)
5 Insulation: rock wool panel, thickness 50 mm, density 50 kg/m^3
6 Collector housing: pressed aluminium tank with four inserts for fastening, anodized aluminium frame, dark grey colour
7 Covering: "low ironed" tempered glass, transparent, thickness 3.2 mm

Arcobaleno construction type SRTO

1 Capturing surface: single aluminium plate, thickness 0.4 mm with highly selective covering with laser welding
2 Pipes: 14 copper pipes, Ø 8 mm, thickness 0.4 mm
3 Collector: copper pipe Ø 22 mm, thickness 0.8 mm
4 Fittings: 2 (1 piece size 1" M and 1 piece size 1" F with swivel joint)
5 Insulation: rock wool panel, thickness 50 mm, density 50 kg/m^3
6 Collector housing: pressed aluminium tank with four inserts for fastening, anodized aluminium frame, dark grey colour
7 Covering: "low ironed" tempered glass, transparent, thickness 3.2 mm

Arcobaleno construction type SXM

1 Capturing surface: single aluminium plate, thickness 0.3 mm with highly selective covering with laser welding
2 Pipes: 12 copper pipes, Ø 8 mm, thickness 0.4 mm
3 Collector: copper pipe Ø 22 mm, thickness 0.8 mm
4 Fittings: copper pipe Ø 22 mm
5 Insulation: rock wool panel, thickness 30 mm, density 25 kg/m^3
6 Collector housing: aluminium frame
7 Covering: "low ironed" tempered glass, transparent, thickness 3.2 mm
8 Bottom: aluminium sheet metal
9 Gasket: bi-component silicone

Arcobaleno construction type NS

1 Capturing surface: single aluminium plate, thickness 0.3 mm with highly selective covering with laser welding
2 Pipes: 10 copper pipes, Ø 12 mm, thickness 0.45 mm
3 Collector: copper pipe Ø 18 mm, thickness 0.7 mm
4 Fittings: 3/4" M wrench socket
5 Insulation: rock wool panelm thickness 50 mm, density 52 kg/m^3
6 Collector housing: dark brown painted aluminium frame
7 Covering: "low ironed" tempered glass, prismatic, thickness 4 mm
8 Bottom: embossed aluminium sheet metal
9 Gasket: EPDM rubber and silicone



Solar tray collector Arcobaleno SRTV with selective surface

Dimension	Pcs.pack	Code	Price €
H 2081 x L 1242 x P 96	14	02710307	1.241,00
H 2081 x L 1242 x P 96 (*)	1	02710308	1.414,00

(*) Single pack
With "quick" connections 1" (with a swivel joint on one end and a male fitting on the other).

Dimensions: see section Technical Attachments

Warranty



Horizontal solar tray collector Arcobaleno SRTO with selective surface

Dimension	Pcs.pack	Code	Price €
H 1242 x L 2081 x P 96	14	02710317	1.241,00
H 1242 x L 2081 x P 96 (*)	1	02710318	1.414,00

(*) Single pack
With "quick" connections 1" (with a swivel joint on one end and a male fitting on the other).

Dimensions: see section Technical Attachments

Warranty



Solar collector Arcobaleno SXM with selective surface

Dimension	Pcs.pack	Code	Price €
H 2000 x L 1170 x P 73	9	02710440	935,50
H 2000 x L 1170 x P 73 (*)	1	02710441	1.120,00

(*) Single pack
With probe holder and copper connections Ø 22 mm

Dimensions: see section Technical Attachments

Warranty



Solar collector Arcobaleno NS with selective surface

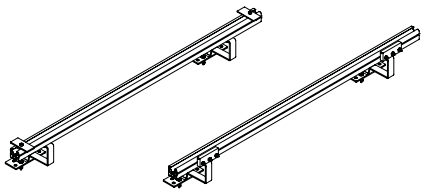
Dimension	Pcs.pack	Code	Price €
H 1988 x L 1218 x P 90	10	02710105	839,70
H 1988 x L 1218 x P 90 (*)	1	02710106	959,10

(*) Single pack.
With probe holder and connections 3/4" M.
It includes two flexible joints swiveling for the connection between two solar collectors NS.

Dimensions: see section Technical Attachments

Warranty

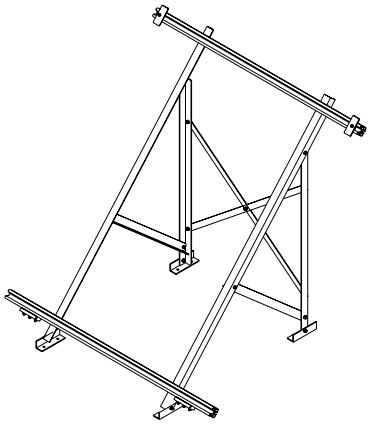
Installation Arcobaleno NS



Parallel roof assembly set on roofs/bent tiles

Dimension	Pcs. pack	Code	Price €
1 NS	1	02710242	257,10
2 NS	1	02710244	513,40

In aluminum and galvanized steel



Flat roof 45° assembly set

Dimension	Pcs. pack	Code	Price €
1 NS	1	02710172	410,50
2 NS	1	02710182	705,20

In aluminium



Flexible connector for Arcobaleno NS solar collector

Dimension	Pcs. pack	Code	Price €
3/4" F with swivel union	1	02710110	15,42



Connector with initial lenght of 65 mm extensible to 125 mm

Dimension	Pcs. pack	Code	Price €
M 3/4" x F 3/4"	12	02412620	18,48



Plugs kit for Arcobaleno NS

Dimension	Pcs. pack	Code	Price €
3/4"	1	02717130	8,51

Supplied with gaskets

Installation Arcobaleno SRTV and SRTO



Couple of fixing guides for 1 Arcobaleno SRTV and Arcobaleno SRTO

Dimension	Pcs. pack	Code	Price €
L = 1270 mm (*)	1	02710311	129,00
L = 2110 mm (**)	1	02710642	197,60

(*) For SRTV
(**) For SRTO



Couple of fixing guides for 2 Arcobaleno SRTV

Dimension	Pcs. pack	Code	Price €
L = 2550 mm	1	02710321	225,50



Connection kit for fixing guides for Arcobaleno SRTV and Arcobaleno SRTO

Dimension	Pcs. pack	Code	Price €
	1	02710331	20,80



Single fixing setwith wheel studs (parallel to the roof) for Arcobaleno SRTV and Arcobaleno SRTO

Dimension	Pcs. pack	Code	Price €
	1	02710341	62,97



Single fixing set with bracket (*) (parallel to the roof) for Arcobaleno SRTV and Arcobaleno SRTO

Dimension	Pcs. pack	Code	Price €
	1	02710351	105,10

(*) For bent tiles: bent tile maximum height 60 mm



Single fixing set for flat roof 35 °- 50 ° with wheel studs for Arcobaleno SRTV and Arcobaleno SRTO

Dimension	Pcs. pack	Code	Price €
	1	02710371	57,92



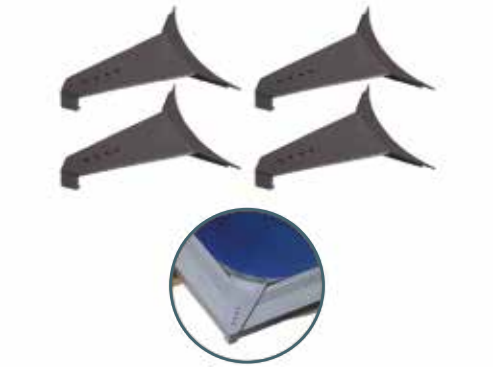
Supporting profiles for installation parallel to the roof for Arcobaleno SRTV and Arcobaleno SRTO

Dimension	Pcs. pack	Code	Price €
SRTV	1	02710361	90,75
SRTO	1	02710644	62,43



Triangular profile support for installation on flat roof 35 ° - 50 ° for Arcobaleno SRTV and Arcobaleno SRTO

Dimension	Pcs. pack	Code	Price €
SRTV	1	02710381	151,70
SRTO	1	02710646	105,10



Set of 4 PVC corner for Arcobaleno SRTV and Arcobaleno SRTO

Dimension	Pcs. pack	Code	Price €
	1	02710392	55,45



Tee fitting kit with probe holder for Arcobaleno SRTV and Arcobaleno SRTO

Dimension	Pcs. pack	Code	Price €
1" M	1	02710401	70,67

Diameter probe holder: 6.5 mm



Plugs kit for Arcobaleno SRTV

Dimension	Pcs. pack	Code	Price €
1"	1	02717110	10,99

Supplied with gaskets

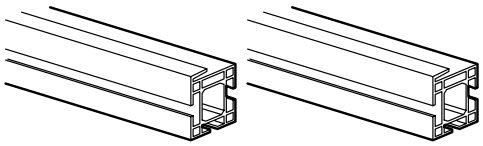


Connection kit for solar collector Arcobaleno SRTV and Arcobaleno SRTO

Dimension	Pcs. pack	Code	Price €
1" (M or F) x 3/4" M	1	01270128	16,66

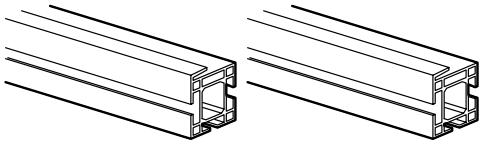
Supplied with gaskets

Installation Arcobaleno SXM



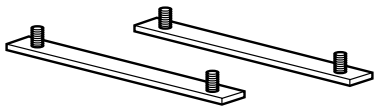
Couple of fixing guides for 1 Arcobaleno SXM

Dimension	Pcs. pack	Code	Price €
L= 1225 mm	1	02710450	99,85



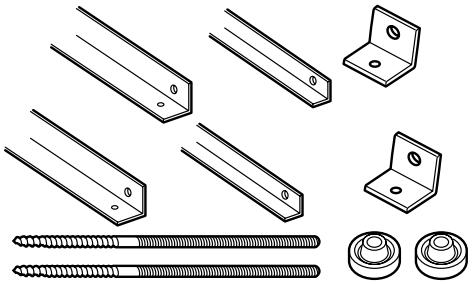
Couple of fixing guides for 2 Arcobaleno SXM

Dimension	Pcs. pack	Code	Price €
L= 2455 mm	1	02710460	199,00



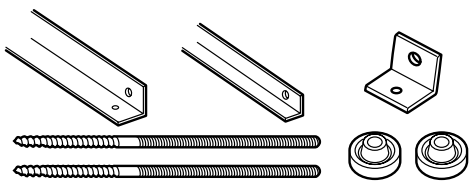
Connection kit for fixing guides for Arcobaleno SXM

Dimension	Pcs. pack	Code	Price €
	1	02710470	43,85



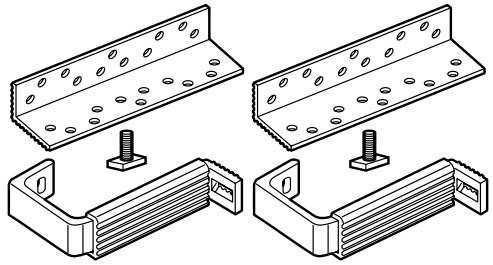
Double flat roof 45° installation set with fixing screws for Arcobaleno SXM

Dimension	Pcs. pack	Code	Price €
45°	1	02710480	332,40



Single flat roof 20° and 45° installation set with fixing screws for Arcobaleno SXM

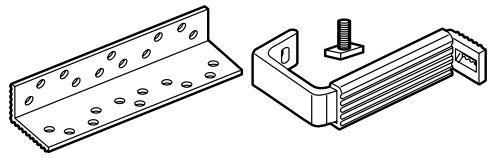
Dimension	Pcs. pack	Code	Price €
45°	1	02710490	185,80



Double tile roofs/bent tiles (*) installation set of brackets (2 pieces) for Arcobaleno SXM

Dimension	Pcs. pack	Code	Price €
	1	02710500	180,10

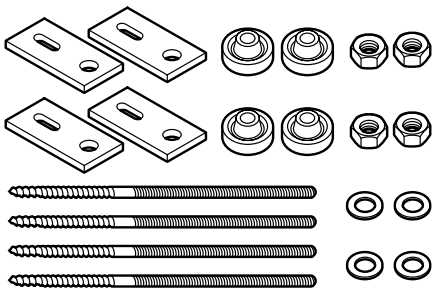
(*) For bent tiles: bent tile maximum height 60 mm



Single tile roofs/bent tiles (*) installation set of brackets (1 piece) for Arcobaleno SXM

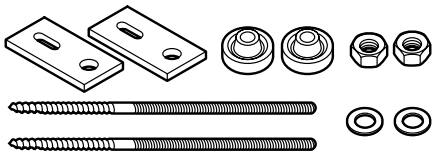
Dimension	Pcs. pack	Code	Price €
	1	02710510	102,10

(*) For bent tiles: bent tile maximum height 60 mm



Double tile roof set of brackets with fixing screws for Arcobaleno SXM

Dimension	Pcs. pack	Code	Price €
	1	02710520	158,20



Single tile roof set of brackets with fixing screws for Arcobaleno SXM

Dimension	Pcs. pack	Code	Price €
	1	02710530	89,87



D22 x D22 dry fitting for Arcobaleno SXM solar collector

Dimension	Pcs. pack	Code	Price €
D22 x D22	1	02710540	16,66

In rows of Arcobaleno SXM solar collectors, there must be two fittings for the connection between two collectors



Metallic seal fitting with male thread for copper pipes

Dimension	Pcs. pack	Code	Price €
3/4" M x DN 22 copper	5	02707874	13,71
1" M x DN 22 copper	5	02707876	14,01



Plugs kit for Arcobaleno SXM

Dimension	Pcs. pack	Code	Price €
D22	1	02717120	34,71

Selection guide

Installation on bent tile and tile roofs with stud bolts for Arcobaleno SRTV

(02710307 - 02710308) Arcobaleno SRTV	02710311	02710321	02710331	02710341	02710361	02710392	02710401
							
	1			2	2	1	1
		1		2	2	2	1
	1	1	1	3	3	3	1
		2	1	4	4	4	1
	1	2	2	5	5	5	1
		3	2	6	6	6	1
	1	3	3	8	8	7	1
		4	3	8	8	8	1
	1	4	4			9	1
		5	4				1

NOTE
you can mount up to 6 solar collectors Arcobaleno SRTV in row. Beyond this number must be provided adequate compensator length (not supplied).

Provide no. 1 plug kit code 02717110 for each group of Arcobaleno SRTV solar collectors.
Provide no. 1 fittings kit code 01270128 for each group of Arcobaleno SRTV solar collectors.

Installation on bent tile and tile roofs with a bracket for Arcobaleno SRTV

(02710307 - 02710308) Arcobaleno SRTV	02710311	02710321	02710331	02710351	02710361	02710392	02710401
							
	1			2	2	1	1
		1		2	2	2	1
	1	1	1	3	3	3	1
		2	1	4	4	4	1
	1	2	2	5	5	5	1
		3	2	6	6	6	1
	1	3	3	8	8	7	1
		4	3	8	8	8	1
	1	4	4			9	1
		5	4				1

NOTE
you can mount up to 6 solar collectors Arcobaleno SRTV in row. Beyond this number must be provided adequate compensator length (not supplied).

Provide no. 1 plug kit code 02717110 for each group of Arcobaleno SRTV solar collectors.
Provide no. 1 fittings kit code 01270128 for each group of Arcobaleno SRTV solar collectors.

Installation on a 35° - 50° flat roof with stud bolts for Arcobaleno SRTV

(02710307 - 02710308) Arcobaleno SRTV	02710311	02710321	02710331	02710371	02710381	02710392	02710401
	1			2	2	1	1
		1		2	2	2	1
	1	1	1	3	3	3	1
		2	1	4	4	4	1
	1	2	2	5	5	5	1
		3	2	6	6	6	1
	1	3	3	8	8	7	1
		4	3	8	8	8	1
	1	4	4			9	1
		5	4				1

NOTE
you can mount up to 6 solar collectors Arcobaleno SRTV in row. Beyond this number must be provided adequate compensator length (not supplied).

Provide no. 1 plug kit code 02717110 for each group of Arcobaleno SRTV solar collectors.
Provide no. 1 fittings kit code 01270128 for each group of Arcobaleno SRTV solar collectors.

Installation on bent tile and tile roofs with stud bolts for Arcobaleno SRTO

(02710317 - 02710318) Arcobaleno SRTO	02710642	02710331	02710341	02710644	02710392	02710401
	1		2	2	1	1
	2	1	4	4	2	1
	3	2	5	5	3	1
	4	3	7	7	4	1

NOTE
Provide no. 1 fittings kit code 01270128 each group of Arcobaleno SRTO solar manifolds.

Installation on bent tile and tile roofs with stud bolts for Arcobaleno SRTO

(02710317 - 02710318) Arcobaleno SRTO	02710642	02710331	02710351	02710644	02710392	02710401
						
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	2	1	4	4	2	1
	3	2	5	5	3	1
	4	3	7	7	4	1

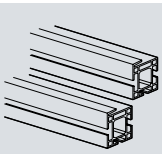
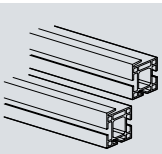
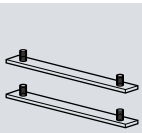
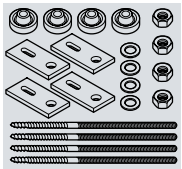
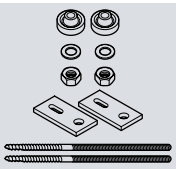
NOTE
Provide no. 1 fittings kit code 01270128 each group of Arcobaleno SRTO solar manifolds.

Installation on a 35° - 50° flat roof with stud bolts for Arcobaleno SRTO

(02710317 - 02710318) Arcobaleno SRTO	02710642	02710331	02710371	02710646	02710392	02710401
						
	1		2	2	1	1
	2	1	4	4	2	1
	3	2	5	5	3	1
	4	3	7	7	4	1

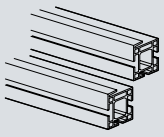
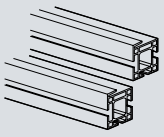
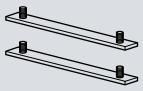
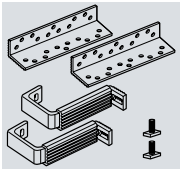
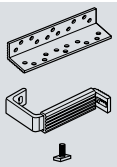
NOTE
Provide no. 1 fittings kit code 01270128 each group of Arcobaleno SRTO solar manifolds.

Installation on bent tile and tile roofs with stud bolts for Arcobaleno SXM

(02710440 - 02710441) Arcobaleno SXM	02710450	02710460	02710470	02710520	02710530
					
	1			1	
		1		1	
	1	1	1	1	1
		2	1	1	2
	1	2	2	1	3

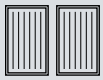
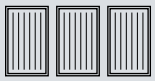
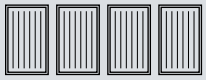
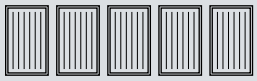
Provide nr. 2 fittings code 02710540 for the connection between two Arcobaleno SXM solar collectors.
Provide nr. 1 kit plugs code 02717120 for each group of Arcobaleno SXM solar collectors.
Provide nr. 2 fittings code 02707874 or 02707876 for each group of Arcobaleno SXM solar collectors.

Installation on bent tile and tile roofs with a bracket for Arcobaleno SXM

(02710440 - 02710441) Arcobaleno SXM	02710450	02710460	02710470	02710500	02710510
					
	1			1	
		1		1	
	1	1	1	1	1
		2	1	1	2
	1	2	2	1	3

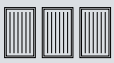
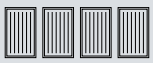
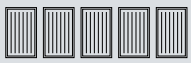
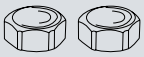
Provide nr. 2 fittings code 02710540 for the connection between two Arcobaleno SXM solar collectors.
Provide nr. 1 kit plugs code 02717120 for each group of Arcobaleno SXM solar collectors.
Provide nr. 2 fittings code 02707874 or 02707876 for each group of Arcobaleno SXM solar collectors.

Installation on a 45° flat roof for Arcobaleno SXM

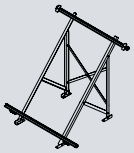
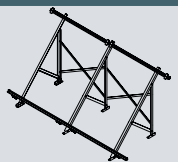
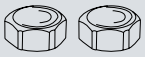
(02710440 - 02710441) Arcobaleno SXM	02710450	02710460	02710470	02710480 (45°)	02710490 (45°)
	1			1	
		1		1	
	1	1	1	1	1
		2	1	1	2
	1	2	2	1	3

Provide nr. 2 fittings code 02710540 for the connection between two Arcobaleno SXM solar collectors.
Provide nr. 1 kit plugs code 02717120 for each group of Arcobaleno SXM solar collectors.
Provide nr. 2 fittings code 02707874 or 02707876 for each group of Arcobaleno wSXM solar collectors.

Installation on bent tile and tile roof for Arcobaleno NS

	(02710105 - 02710106) Arcobaleno NS				
					
02710242 	1		1		1
02710244 		1	1	2	2
02717130 	1	1	1	1	1

Installation on a 45° flat roof for Arcobaleno NS

	(02710105 - 02710106) Arcobaleno NS				
02710172 	1		1		1
02710182 		1	1	2	2
02717130 	1	1	1	1	1

NVSN natural circulation solar kit

WEB

SCAN



Warranty

Model NVSN1S 150

Composition
- N ° 1 solar thermal collector;
- Tank with cavity in vitrified steel;
- Universal fixing system for installation on a flat roof (inclination approximately 45 °)
- Installation kit comprising: 1 5 liter pack of propylene glycol; 3 bar safety valve solar circuit); 6 bar safety valve (sanitary circuit); insulated stainless steel pipes for manifold-storage tank connection; hydraulic fittings and mounting screws.

Solar collector technical data
- Absorber: aluminum with 0.5 mm thick selective surface
- Cover: 4 mm thick tempered glass
- Dimensions: (WxHxD) 2040 x 1040 x 88 mm
- Gross surface area: 2.11 m²
- Open surface area (net): 1.91 m²
- Fittings (4 copper pipes): Ø 22 mm
- Maximum operating pressure: 10 bar
- Stagnation temperature: 195 °C
- Contents: 1,40 liters
- Weight when empty: 38 kg

n0a=0,777
a1a = 4,350
a2a = 0,0073
Ke (50°) = 0,910

Tank technical data
- Dimensions: (L x diameter) 1055 x Ø 580 mm
- Material: vetrified steel
- Usefull volume: 152 l
- Protection: 2 manesium anodes
- Equipped with electrical resistance 1,5 W
- Equipped with side inspection flange
- Max pressure of sanitary circuit: 6 bar
- Max pressure of solar circuit: 3 bar
- Connections: G 3/4" F
- Dispersion: 54 W
- Energy efficiency class: B
- Weight when empty: 67 kg

Complete system technical data
- Heat carrier fluid content: 9,45 l
- In confirm to UNI EN 12976 norm
- Solar Keymark certification

Dimension	Pcs. pack	Code	Price €
NVSN1S 150	1	02717200	2.465,00

Dimensions: see section Technical Attachments

NVSN solar kit



Warranty

Model NVSN1S 200

Composition

- N ° 1 solar thermal collector;
- Tank with cavity in vitrified steel;
- Universal fixing system for installation on a flat roof (inclination approximately 45 °)
- Installation kit comprising: 1 5 liter pack of propylene glycol; 3 bar safety valve solar circuit); 6 bar safety valve (sanitary circuit); insulated stainless steel pipes for manifold-storage tank connection; hydraulic fittings and mounting screws.

Solar collector technical data

- Absorber: aluminum with 0.5 mm thick selective surface
- Cover: 4 mm thick tempered glass
- Dimensions: (WxHxD) 2040 x 1040 x 88 mm
- Gross surface area: 2.11 m²
- Open surface area (net): 1.91 m²
- Fittings (4 copper pipes): Ø 22 mm
- Maximum operating pressure: 10 bar
- Stagnation temperature: 195 °C
- Contents: 1,40 liters
- Weight when empty: 38 kg

n0a=0,777
a1a = 4,350
a2a = 0,0073
Ke (50°) = 0,910

Tank technical data

- Dimensions: (L x diameter) 1325 x Ø 580 mm
- Material: vetrified steel
- Usefull volume: 198 l
- Protection: 2 manesium anodes
- Equipped with electrical resistance 1,5 W
- Equipped with side inspection flange
- Max pressure of sanitary circuit: 6 bar
- Max pressure of solar circuit: 3 bar
- Connections: G 3/4" F
- Dispersion: 60 W
- Energy efficiency class: B
- Weight when empty: 85 kg

Complete system technical data

- Heat carrier fluid content: 12,60 l
- In confirm to UNI EN 12976 norm
- Solar Keymark certification

Dimension	Pcs. pack	Code	Price €
NVSN1S 200	1	02717210	2.507,00

Dimensions: see section Technical Attachments

NVSN solar kit



10 Years
Warranty

Model NVSN2S 200

Composition
- N ° 2 solar thermal collectors;
- Tank with cavity in vitrified steel;
- Universal fixing system for installation on a flat roof (inclination approximately 45 °)
- Installation kit comprising: 1 5 liter pack of propylene glycol; 3 bar safety valve solar circuit); 6 bar safety valve (sanitary circuit); insulated stainless steel pipes for manifold-storage tank connection; hydraulic fittings and mounting screws.

Solar collector technical data
- Absorber: aluminum with 0.5 mm thick selective surface
- Cover: 4 mm thick tempered glass
- Dimensions: (WxHxD) 2040 x 1040 x 88 mm
- Gross surface area: 2.11 m²
- Open surface area (net): 1.91 m²
- Fittings (4 copper pipes): Ø 22 mm
- Maximum operating pressure: 10 bar
- Stagnation temperature: 195 °C
- Contents: 1,40 liters
- Weight when empty: 38 kg

n0a=0,777
a1a = 4,350
a2a = 0,0073
Ke (50°) = 0,910

Tank technical data
- Dimensions: (L x diameter) 1325 x Ø 580 mm
- Material: vetrified steel
- Usefull volume: 198 l
- Protection: 2 manesium anodes
- Equipped with electrical resistance 1,5 W
- Equipped with side inspection flange
- Max pressure of sanitary circuit: 6 bar
- Max pressure of solar circuit: 3 bar
- Connections: G 3/4" F
- Dispersion: 60 W
- Energy efficiency class: B
- Weight when empty: 85 kg

Complete system technical data
- Heat carrier fluid content: 14,20 l
- In confirm to UNI EN 12976 norm
- Solar Keymark certification

Dimension	Pcs. pack	Code	Price €
NVSN2S 200	1	02717220	3.424,00

Dimensions: see section Technical Attachments

NVSN solar kit



10 Years
Warranty

Model NVSN2S 280

Composition
- N ° 2 solar thermal collectors;
- Tank with cavity in vitrified steel;
- Universal fixing system for installation on a flat roof (inclination approximately 45 °)
- Installation kit comprising: 1 5 liter pack of propylene glycol; 3 bar safety valve solar circuit); 6 bar safety valve (sanitary circuit); insulated stainless steel pipes for manifold-storage tank connection; hydraulic fittings and mounting screws.

Solar collector technical data
- Absorber: aluminum with 0.5 mm thick selective surface
- Cover: 4 mm thick tempered glass
- Dimensions: (WxHxD) 2040 x 1040 x 88 mm
- Gross surface area: 2.11 m²
- Open surface area (net): 1.91 m²
- Fittings (4 copper pipes): Ø 22 mm
- Maximum operating pressure: 10 bar
- Stagnation temperature: 195 °C
- Contents: 1,40 liters
- Weight when empty: 38 kg

n0a=0,777
a1a = 4,350
a2a = 0,0073
Ke (50°) = 0,910

Tank technical data
- Dimensions: (L x diameter) 1765 x Ø 580 mm
- Material: vetrified steel
- Usefull volume: 272 l
- Protection: 2 manesium anodes
- Equipped with electrical resistance 1,5 W
- Equipped with side inspection flange
- Max pressure of sanitary circuit: 6 bar
- Max pressure of solar circuit: 3 bar
- Connections: G 3/4" F
- Dispersion: 75 W
- Energy efficiency class: C
- Weight when empty: 107 kg

Complete system technical data
- Heat carrier fluid content: 19,80 l
- In confirm to UNI EN 12976 norm
- Solar Keymark certification

Dimension	Pcs. pack	Code	Price €
NVSN2S 280	1	02717230	3.757,00

Dimensions: see section Technical Attachments

Accessories for NVSN natural circulation solar kit



Assembly set on roofs and bent tiles with studs

Dimension	Pcs. pack	Code	Price €
SFTC200 (*)	1	02717240	170,10
SFTC300 (**)	1	02717242	167,50

(*) For models NVSN1S 150, NVSN1S 200, NVSN2S 200
(**) For model NVSN2S 280



Side cover profile

Dimension	Pcs. pack	Code	Price €
70x80x2050 mm (LxHxP)	1	02717244	30,09

To hide the insulated pipe on the side of the panel



Front cover for solar collector

Dimension	Pcs. pack	Code	Price €
1060x2000	1	02717070	106,50

Solar stations and groups

SCAN





Solar circulation group GSN1V 38 NP

Nominal pressure: PN 10 - - Continuous temperature 120°C (brief period: 160°C for 20 sec.)
External connections 1" M - Threads: G (ISO 228-1)

Return
- Flow rate adjuster measuring device with system fill and discharge valves
- Flanged ball valve, 3-way, DN 20 with non-return valve 10 mbar (the non-return valve can be bypassed by turning the handle 45°) provided with handle for thermometer (thermometer with blue ring; 0 °C - 120 °C)
- Safety group 6 bar with pressure gauge Ø 50 mm 0-10 bar with connection 3/4" M for expansion vessel
- Circulation pump Para STG 25/7 (fixed speed, constant Delta p, adjustment via signal PWM1 (heating) or PWM2 (solar))

Supplied with metal plate rear fixing.
Insulation box in EPP (Dimension 155 x 425 x 150 mm).
Group dimensions (WxHxD): 200 x 450 x 150 mm.

Power supply: 230 Vac + 10% / -15%, 50/60 Hz
Power consumption in stand-by:
- Circulator pump: 0.8 W

Dimension	Flow rate L/min	Pcs. pack	Code	Price €
38	8-38	1	02716922	615,60

Dimensions: see section Technical Attachments



One way solar group SS1V 12 NP

Nominal pressure: PN 10 - Continuous temperature 120 °C (brief period: 160°C for 20 sec.)
External connections 1" M

Return
- Flow rate adjuster measuring device with system fill and discharge valves
- Flanged ball valve, 3-way, DN 20 with non-return valve 10 mbar (the non-return valve can be bypassed by turning the handle 45°) provided with handle for thermometer (thermometer with blue ring; 0 °C - 120 °C)
- Safety group 6 bar with pressure gauge Ø 50 mm 0-10 bar with 3/4"M connection for expansion vessel
- Circulation pump Para STG 25/7 (with PWM2 (solar) signal adjustment via STDC controller 2015, fixed speed, constant Delta p, PWM1 (heating)).

Solar unit STDC 2015, pre-wired, includes 2 probes PT1000 with silicone cable; third probe optional only for visualization.

Supplied with metal plate rear fixing.

Insulation box in EPP (Dimension 215 x 440 x 150 mm).

Power supply: 230 Vac + 10% / -15%, 50/60 Hz
Power consumption in stand-by:
- Circulator pump: 0.8 W
- Solar control unit: 1.5 W

Dimension	Flow rate L/min	Pcs. pack	Code	Price €
12	2 - 12	1	02716924	956,10

Dimensions: see section Technical Attachments



Complete solar group SSX 12-38 NP

Nominal pressure: PN 10 - Continuous temperature 120°C (brief period: 160°C for 20 sec.)
Takeoffs: 125 mm - External connections 1" M - Threads: G (ISO 228-1)

Return
- Flow rate adjuster measuring device with system fill and discharge valves
- Flanged ball valve, 3-way, DN 20 with non-return valve 10 mbar (the non-return valve can be bypassed by turning the handle 45°) provided with handle for thermometer (thermometer with blue ring; 0 °C - 120 °C)
- Safety group 6 bar with pressure gauge Ø 50 mm 0-10 bar with 3/4" M connection for expansion vessel
- Circulation pump Para STG 25/7 (with control signal PWM2 (solar) via EMCS controller 2015, fixed speed, constant Delta p, PWM1 (heating)).

Flow
- Flanged ball valve, DN 20 with non-return valve 10 mbar (the non-return valve can be bypassed by turning the handle 45°) provided with handle for thermometer (thermometer with red ring; 0 °C - 120 °C)
- Brass de-aeration with manually air valve
- Connexion and fitting pipe

Pre-cabled EMCS 2015 solar wiring box with 3 probes PT1000 with silicone cable.

Supplied with metal plate rear fixing.

Insulation box in EPP (Dimension 308 x 434 x 169 mm).

Power supply: 230 Vac + 10% / -15%, 50/60 Hz
Power consumption in stand-by:
- Circulator pump: 0.8 W
- Solar control unit: 0.5 W

Dimension	Flow rate lt/min	Pcs. pack	Code	Price €
12	2 - 12	1	02716930	1.383,00
38	8 - 38	1	02716932	1.383,00

Dimensions: see section Technical Attachments



Complete solar group SSC 40 NP with function of measuring comsumption

Nominal pressure: PN 10 - Continuous temperature on flow copper 120 °C (short term: 160 °C for 20 sec.) - Return branch: the measurement is made between 0 °C and 100 °C
Takeoffs: 125 mm - External connections 1" M - Threads: G (ISO 228-1)

Return
- Combined measurement device of flow rate and temperature VFS with system discharge valve
- Flanged ball valve, 3-way, DN 20 with non-return valve 10 mbar (the non-return valve can be bypassed by turning the handle 45 °) provided with handle for thermometer (thermometer with blue ring; 0 °C - 120 °C)
- Safety group 6 bar with pressure gauge Ø 50 mm 0-10 bar with connection 3/4" M for expansion vessel
- Circulator pump Para STG 25/7 (with PWM2 (solar) via ELCS 2016 signal adjustment unit, fixed speed, constant Delta p, PWM1 (heating)).
- Pipe fitting of 3/4" with system fill valve (provide flexible hose code 02706836 not supplied).

Flow
- Flanged ball valve, DN 20 with non-return valve 10 mbar (the non-return valve can be bypassed by turning the handle 45°) provided with handle for thermometer (thermometer with red ring; 0 °C - 120 °C)
- Brass de-aeration device with manual bleed valve
- Fitting and connection tube
- Temperature probe in contact with the connection tube

Solar unit ELCS 2016, pre-wired, includes 4 probes (3 immersion, 1 in contact) PT1000 with silicone cable with heat accounting function (*)
(*) Instrument non certified in confirm to directive 2004/22/CE - MID.

Supplied with metal plate rear fixing.

Insulation box in EPP (Dimensions 308 x 434 x 169 mm).

Power supply: 230 Vac + 10% / -15%, 50/60 Hz
Power consumption in stand-by:
- Circulator pump: 0.8 W
- Solar control unit: 0.5 W

Dimension	Flow rate lt/min	Pcs. pack	Code	Price €
40	2 - 40	1	02716934	1.785,00

With drain kit

Dimensions: see section Technical Attachments



Solar circulation group GSN 12-38 NP

Nominal pressure: PN 10
Continuous temperature 120°C (brief period: 160°C for 20 sec.)
Takeoffs: 125 mm
External connections 1" M - Threads: G (ISO 228-1)

Return
- Flow rate adjuster measuring device with system fill and discharge valves
- Flanged ball valve, 3-way, DN 20 with non-return valve 10 mbar (the non-return valve can be bypassed by turning the handle 45°) provided with handle for thermometer (thermometer with blue ring; 0 °C - 120 °C)
- Safety group 6 bar with pressure gauge Ø 50 mm 0-10 bar with 3/4" M connection for expansion vessel
- Circulation pump Para STG 25/7 (fixed speed, constant Delta p, adjustment with PWM1 (heating signal) or PWM2 (solar))

Flow
- Flanged ball valve, DN 20 with non-return valve 10 mbar (the non-return valve can be bypassed by turning the handle 45°) provided with handle for thermometer (thermometer with red ring; 0 °C - 120 °C)
- Brass de-aeration with manually air valve
- Connexion and fitting pipe

Supplied with metal plate rear fixing.

Insulation box in EPP (Dimension 280 x 425 x 150 mm).
Group dimensions (WxHxD): 325 x 460 x 150 mm
Power supply: 230 Vac + 10% / -15%, 50/60 Hz
Power consumption in stand-by:
- Circulator pump: 0.8 W

Dimension	Flow rate lt/min	Pcs. pack	Code	Price €
12	2 - 12	1	02716926	787,90
38	8 - 38	1	02716928	791,80

Dimensions: see section Technical Attachments



Solar circulation group for high flow rate GSA 42-70 N

Nominal pressure: PN 10
Continuous temperature 120°C (brief period: 160°C for 20 sec.)
Takeoffs: 125 mm
External connections 1" 1/4 M - Threads: G (ISO 228-1)

Return
- Flow rate adjuster measuring device 5/42 l/min or 20/70 l/min
- Ball valve with non-return valve 18 mbar (the non-return valve can be bypassed by turning the handle 45°) provided with handle for thermometer (thermometer with blue ring; 0 °C - 120 °C)
- "T" fitting for safety group
- Safety group 6 bar with pressure gauge Ø 50 mm 0-10 bar with 3/4" M connection for expansion vessel
- Circulation pump Stratos Para 25 / 1-8 (ΔP const, ΔP variable or adjustment by external signal 0-10 V)

Flow
- Ball valve with non-return valve 18 mbar (the non-return valve can be bypassed by turning the handle 45°) provided with handle for thermometer (thermometer with red ring; 0 °C - 120 °C)
- "T" fitting with probe holder socket Ø 6 mm
- Connexion and fitting pipe

Supplied with metal plate rear fixing.

Insulation box in EPP (Dimension 285 x 500 x 170 mm).
Power consumption in stand-by:
- Circulator pump: 1.44 W

Dimension	Flow rate l/min	Pcs. pack	Code	Price €
42	5-42	1	02716760	1.528,00
70	20-70	1	02716770	1.529,00

Provide valve for fill/discharge system code 02707898

Dimensions: see section Technical Attachments

Accessories for solar systems

WEB

SCAN





Pipe unions couple for solar groups

Dimension	Pcs. pack	Code	Price €
1" F x 3/4" M	1	90027810	11,32
1" F x 3/4" F	1	90027850	24,40
1" 1/4 F x 1" M	1	90028290	23,70



Bracket for fixing expansion tank with fitting up to 24 liters

L-bracket for wall mounting of expansion vessel.
The 3/4" M x 3/4" F fitting is equipped with a non-return valve.
Gasket and wall plugs included.

Dimension	Pcs. pack	Code	Price €
	1	02706834	43,32



Stainless steel flexible hose kit for connection to expansion vessel

Flexible tube in stainless steel AISI 304 for connection of the expansion vessel to the safety group - Threading 3/4" - Includes hose, fittings and gaskets.

Dimension	Pcs. pack	Code	Price €
L 500	1	02706836	22,70
L 1000	1	02706838	34,71



Flow regulator/flowmeter

Connection DN15: 1" M - 1" cap, Connection DN20: 1"1/4 M - 1"1/4 cap - Nominal pressure: PN 10 - Continuous temperature 120 °C (brief period: 160°C for 20 sec.)

Dimension	Flow rate l/min	Pcs. pack	Code	Price €
DN15	2-12	1	02716644	60,68
DN15	8-38	1	02707750	60,68
DN20	5-42	1	02716648	99,50
DN20	20-70	1	02716650	99,50

Option of horizontal or vertical installation with any direction of flow



Differential thermostat

Model	Pcs. pack	Code	Price €
Differential thermostat TD1 (*)	1	02708010	190,30
Differential thermostat TD2 (**)	1	02706840	237,40
Sensor PTC +125 °C for TD1	1	02708012	14,54
Sensor PT 1000 +160 °C for TD2	1	02706844	22,70
Sensor PT 1000 +200 °C for TD2	1	02706842	28,45
Feeler trap	1	00510686	10,09

(*) Complete with three probes PTC +125 °C. Equipped with 1 differential thermostat and 1 adjustment thermostat.
(**) Complete with two probes PT 1000 +160 °C and 1 probe PT 1000 +200 °C. Equipped with 2 differential thermostats, one of which can be configured for integration/overheat discharge



Temperature differential controller EMCS 2015

Temperature differential controller for systems with solar manifolds or solid fuel tanks, equipped with 4 inputs for temperature probes PT1000, 2 on/off outputs with live relay, 1 PWM/0-10V output to control high efficiency circulators, external connection via CAN-Bus or Ethernet for the management of the system even at a distance via local network or internet.
27 different hydraulic diagrams selectable with the possibility to activate additional functions for any unused relays.
Display of the measured temperatures and of the status of the relays.
Complete with clock and reserve battery (autonomy 24 h).
Simple heat metering function*. Functions protecting the system, the solar manifold and the tank. Anti-legionella function. Anti-freeze function. Offset correction of temperature sensors.
* Instrument not certified according to Directive 2004/22/CE - MID

Model	Pcs. pack	Code	Price €
EMCS 2015	1	02716711	449,00

Supplied with 3 immersion sensor PT1000 + 180 °C with silicone cable



Over voltage kit protection

Dimension	Pcs. pack	Code	Price €
	1	02716616	25,53



Temperature sensors

Sensors PT1000 + 180 °C wih silicone cable

Dimension	Pcs. pack	Code	Price €
Immersion sensor with cable 2 m, Ø 5,5 mm	1	02716612	28,45
Contact sensor with cable 1,5 m	1	02716614	39,86



Vent valve for high temperature solar

Body and cover in brass UNI EN 12165 CW617N - Polyethylene float -
Max. temperature: 150 °C -Max. pressure: 10 bar

Dimension	Pcs. pack	Code	Price €
1/2" M	10	28140020	22,70

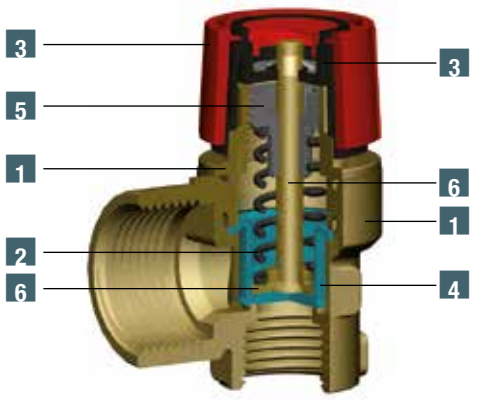


Valve for fill and discharge system

Technical data
Continuous temperature 120 °C (brief period 160 °C for 20 sec.)
Nominal pressure: PN 10
Connections: 1" F
Lateral bibcocks 3/4" for hose connection
Flow rate up to 70 l / min
Kvs: 17,0

Dimension	Pcs. pack	Code	Price €
1"	1	02707898	68,76





Product 100% tested

Sicura HT, Safety valve for high temperature solar

Membrane valve, with fixed high-lift calibration and direct reaction spring.
The calibration screw cannot be tampered with, without causing irretrievable damage to the valve.
The shutter membrane is guaranteed non-stick type and will not alter shape after prolonged utilisation.
The calibration pressure is stamped in relief on the plug placed on top of the valve.
The possibility of the valve being opened accidentally is prevented by a protection cap.
In order to turn the knob, it is necessary to remove the cap.
The addition of a pressure gauge is alredy foreseen.
Max. temperature: 160 °C
Suitable for use with glycol mixtures of up to 50%

Construction

1. Body and ring nut in UNI EN 12165 CW617N brass
2. AISI stainless steel spring
3. Handle and cap in PA6
4. Silicone membrane
5. Adjustment ring nut in PPS
6. Rod and disc in UNI EN 12164 CW614N brass

Note:
intended use with pressure equipment as per art. 4 paragraph 3 PED directive 2014/68/EU or art. 3 paragraph 3 PED directive 97/23/EC.

Dimension	Pressure	Pcs. pack	Code	Price €
1/2" F x 3/4" F	4 bar	12	00206122	23,40
1/2" F x 3/4" F	6 bar	12	00206124	21,41
1/2" F x 3/4" F	3 bar	12	00206120	22,75



Expansion vessel for solar

Special membrane for solar in confirm to DIN 4807 - Precharge pressure: 2,5 bar - Maximum pressure: 10 bar - Temperature: -10÷+100 °C

Liters	Connection	H (mm)	Ø (mm)	Pcs. pack	Code	Price €
18	M 3/4" Gas	380	260	1	00104200	102,00
24	M 3/4" Gas	490	260	1	00104205	116,20
35	M 3/4" Gas	435	380	1	00104210	182,50
50	M 3/4" Gas	565	380	1	00104215	216,30

CE marking in compliance with the directive PED 2014/68/UE
Model from 35 to 50 litres with support feet



Progress for Solar Male-Female

Temperature of use: -20 ÷ +180 C
Nominal pressure: 50 bar for size 1/2", 40 bar for size 3/4"

Dimension	Pcs. pack	Code	Price €
1/2"	18	09815370	10,44
3/4"	12	09815372	14,38



Vertical de-aeration device

Maximum operating temperature: 140 °C - Maximum operating pressure: 10 bar
Kv: 6,5 - Employment fluid: water, glicole

Dimension	Pcs. pack	Code	Price €
DN 15 - G 1"M x G 3/4"F	1	02707822	69,30
Extension 50 mm (*)	1	02707820	11,30

(*) for air vent valve - items to be out of range



Tank of premixed protective non-toxic antifreeze for solar systems

* Propylene glycol content: 25-28% - pH of the solution: 9.2-10 - Minimum alkalinity reserve: ml HCl 0.1 N:15 - Freezing point: -12 C - density: 1,0 kg/l

** Propylene glycol content: 42-45% - pH of the solution: 9.2-10 - Minimum alkalinity reserve: ml HCl 0.1 N: 20 - Freezing point: -28 C - density: 1,0-1,1 kg/l

Dimension	Pcs. pack	Kg/pack	Code	Price €
T ≥ - 12 °C*	1	5 kg	02706372	60,68
T ≥ - 12 °C*	1	25 kg	02706376	284,30
T ≥ - 28 °C**	1	5 kg	02706382	96,21
T ≥ - 28 °C**	1	25 kg	02706386	399,00

Liquid with disappearing red-violet colour, indicative of the pH, non-toxic and ready to use, protects against corrosion of the metal surfaces, prevents the formation of salt encrustation, allows to reach stagnation temperatures up to 300 ° C.
Boiling point: 102 °C for codes 02706372 - 02706376, 105 °C for codes 02706382 - 02706386.



System loading station

Delivery capacity: 5,2 - 50 litres/min - Static pressure H: 5 - 52 m. c. H_2O - Power supply: 230 V - 50 Hz - Current = 2,6 A - Electric power absorbed: 500 W max - Spin speed: 2900 rpm - Protection: IP44 - Tank volume: 50 litres

Dimension	Pcs. pack	Code	Price €
50 litres	1	02706862	1.615,00

Fitted with two connection pipes L = 3 m

Pipes and fittings for solar systems

SCAN



Insulating material in EPDM, resistant to UV rays.
Thermal conductivity:
λ (0 °C) = 0.033 W/mK,
λ (40 °C) = 0.037 W/mK,
Class of construction material: B2 (DIN 4102)
Max. operating temperature: 150 °C
Max. peak temperature: 175 °C

Pipe material:
corrugated stainless steel AISI 316 L with temperature range between -270 °C and +600 °C
Copper pipe DIN EN 12249 (R220) resistant to temperatures that reach 180 °C

Maximum operating pressure of corrugate stainless steel pipe:
20°C: DN16=11 bar; DN20=11 bar; DN25=10 bar
200 °C: DN16=7,5 bar; DN20=7,5 bar; DN25=6,9 bar



Single flexible pre-insulated stainless steel hose

Dimension	Insulating thickness	Pcs. pack	Code	Price €
DN 16 - L= 15 m	13 mm	1	02706402	393,00
DN 20 - L = 15 m	13 mm	1	02706412	490,80
DN 25 - L = 15 m	13 mm	1	02706422	561,90



Double flexible pre-insulated stainless steel hose - separable

Dimension	Insulating hickness	Pcs. pack	Code	Price €
DN 16 - L=15 m	13 mm	1	02706502	720,70
DN 20 - L=15 m	13 mm	1	02706522	868,80
DN 25 - L=15 m	13 mm	1	02706462	1.217,00

Sensor cable: 2x0,75 mm²



Double pre-insulated copper pipe - separable

Dimension	Insulating thickness	Pcs. pack	Code	Price €
15x0,8 - L=15 m	13 mm	1	02707841	966,40
18x0,8 - L=20 m	13 mm	1	02707845	1.587,00

Sensor cable: 2x0,75 mm²



Pipe connection kit with screws for inox pipes

Dimension	Pcs. pack	Code	Price €
DN 16 mm (3/4")	1 kit	02706552	39,86
DN 20 mm (1")	1 kit	02706602	53,46
DN 25 mm (1" 1/2)	1 kit	02706610	99,50

The kit consists of: 4 connecting nuts, 4 fixing rings, 4 flat gaskets, 1 nipple and 1 stainless steel washer (the nipple and washer must be used to form the flat seal housing on the pipe).



Double male nipple for inox pipes

Dimension	Pcs. pack	Code	Price €
3/4" M - 3/4" M	1	02706730	8,65
1" M - 1" M	1	02706740	17,66
1"1/4 M - 1"1/4 M	1	02706750	35,52



Reduction ring monopiece for copper pipes

Dimension	Pcs. pack	Code	Price €
DN 18 copper x DN 15 copper	10	02707850	8,53
DN 22 copper x DN 18 copper	10	02707852	7,91



Kit fast connection copper-copper

Dimension	Pcs. pack	Code	Price €
DN 15 copper x DN 15 copper	5	02707860	12,12
DN 18 copper x DN 18 copper	5	02707862	16,25



Metallic seal fitting with male head thread for copper pipes

Dimension	Pcs. pack	Code	Price €
3/4" M x DN 15 copper	5	02707870	15,53
3/4" M x DN 18 copper	5	02707872	15,53
3/4" M x DN 22 copper	5	02707874	13,71
1" M x DN 22 copper	5	02707876	14,01



Kit of 4 brackets for installation of coupled and pre-insulated pipes

Dimension	Pcs. pack	Code	Price €
DN 16÷20 mm for inox	1	02706540	34,71
DN 15÷18 mm for copper	1	02707848	22,70



Adhesive insulating tape 3 mm

Dimension	Pcs. pack	Code	Price €
5 cm x 15 m	1	02706802	50,86



Black adhesive tape in aluminium

Dimension	Pcs. pack	Code	Price €
5 cm x 50 m	1	01516040	29,44



Heating unit components

WEB

SCAN

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> Tecno-Varia and Varia automatic air valve  411

> Safety group  413

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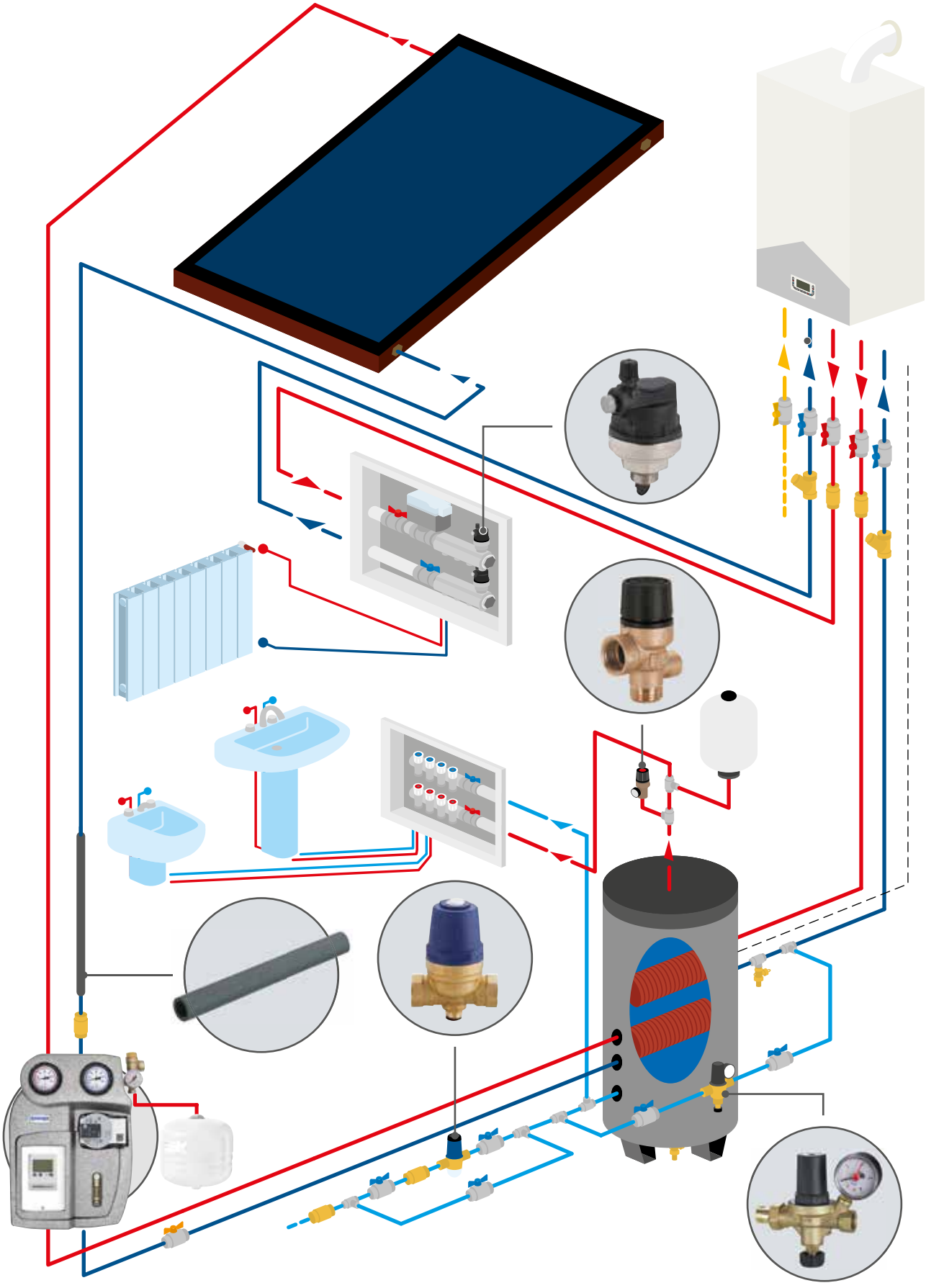
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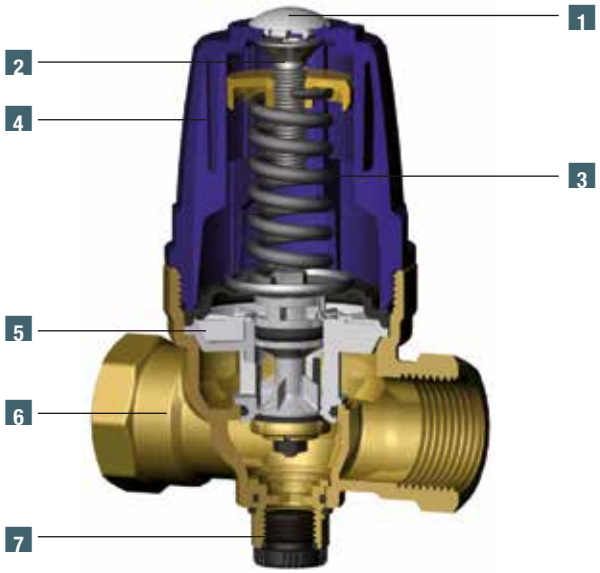
> Filters, water meters and solenoid valves  435

Example of installation



Pressure Reducer Eco+





Membrane pressure reducer.
The stopper cartridge is located around a stainless steel bolt, guaranteeing mechanical resistance and easy maintenance: the cartridge can always be replaced by removing it from the reducer without the need to remove the latter from the system.
The stopper is coupled with a piston, whose surface compensates for the force exercised by the pressure upstream of the stopper itself, thereby guaranteeing the stability of the delivered pressure independently of fluctuations in supply pressure.
The sliding surfaces of the seal elements are made with synthetic components with a low friction coefficient, which reduces the formation of deposits and the onset of malfunctions
The maximum inlet pressure is 25 bar, and the outlet pressure can be regulated between 1 and 6 bar.
All reducers are bench tested and calibrated to a delivery pressure of 3 bar, this setting can be changed using the adjustment screw, screwing it in to increase the output pressure and unscrewing it to decrease it.
The reducer is available with connections with female or male threads.
It is recommended to place a silt filter upstream of the reducer, which retains any impurities in the water. This will extend the life of the reducer itself.

Construction
1 Protection cap in PA 6 (15% GF)
2 Adjustment mechanism in brass UNI EN 12164 CW614N
3 Spring in stainless steel AISI 302
4 Cap in PA 66 (30% GF)
5 Stopper cartridge: plastics in Hostaform - gasket and membrane in EPDM 70 WRAS - shaft and washers in stainless steel AISI 304
6 Brass body UNI EN 12165 CW617N
7 G 1/4" pressure gauge fittings in brass UNI EN 12164 CW617N

Technical data
Thread UNI EN 10226-1
Max upstream pressure: 25 bar
Adjustable field: 1÷6 bar
Max temperature: 70 °C

Compliant with 4MS Common Composition List requirements

Membrane pressure reducer Eco+



Eco+ pressure reducer Female - Female, sandy

Dimension	Pcs. pack	Code	Price €
DN15 (G 1/2" F)	1	28104220	38,30
DN20 (G 3/4" F)	1	28104222	42,50
DN25 (G 1" F) (*)	1	28104224	49,15

(*) Use the pressure gauge with rear connection



Eco+ pressure reducer Male - Male, sandy

Dimension	Pcs. pack	Code	Price €
DN 15 (G 3/4" M)	1	28104340	38,30
DN 20 (G 1" M)	1	28104342	42,50



Pipe unions couple for pressure reducer Male - Male without pipe unions

Dimension	Pcs. pack	Code	Price €
3/4" F x 1/2" M	1	90027800	7,69
1" F x 3/4" M	1	90027810	11,32
3/4" F x 1/2" F	1	90027840	16,93
1" F x 3/4" F	1	90027850	24,40

Thread UNI EN ISO 228-1



Pressure gauge radial attachment Ø 63 for pressure reducer DN15 and DN20

Dimension	Pressure	Pcs. pack	Code	Price €
1/4" x 63 mm	10 bar	10	00622006	9,21
1/4" x 63 mm	6 bar	10	00622010	9,21

Thread UNI EN ISO 228-1



Pressure gauge Ø 50 side back connection for pressure reducer Female - Female DN25

Size	Pressure	Pcs. pack	Code	Price €
1/4"	10 bar	10	00612442	8,65

Thread UNI EN ISO 228-1

Emmeti Pressure reducer



Emmeti Pressure reducer

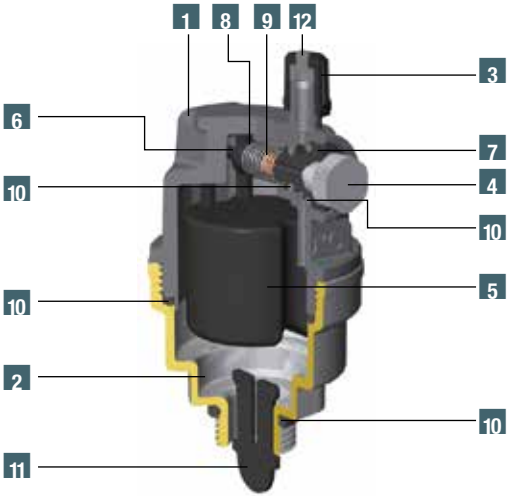
Max upstream pressure: 25 bar
Adjustable field: 0,5÷6 bar
Max temperature: 80 °C
Body and internal components in UBA compliant brass alloy
Threads: G (UNI EN ISO 228-1)

Dimension	Connections	Pcs. pack	Code	Price €
1" with pipe unions	F-F	1	01060100	112,10
1"1/4 with pipe unions	F-F	1	01060114	187,50
1"1/2 with pipe unions	F-F	1	01060150	214,70
2" with pipe unions	F-F	1	01060200	306,40
2"1/2 without pipe unions	F-F	1	01060212	380,60

Tecno-Varia

Automatic air valve with plastic cover and anti-dirt air chamber





Construction

1. Casing in Zytel (HTN51)
2. Cup in brass UNI EN 12165 CW617N
3. Black cap manual venting PA 6 stiffened
4. Grey cap automatic venting PA 6 stiffened
5. Floater in PP
6. Splingle in PA 6
7. Ring in PPO
8. Spring in steel inox
9. Shutter in silicone rubber
10. O-ring in NBR
11. Bubble-breaker in PA 6 stiffened
12. Gasket in NBR

Technical data

Thread UNI EN ISO 228-1
Maximum pressure 10 bar
Maximum temperature +110 °C

Product 100% tested



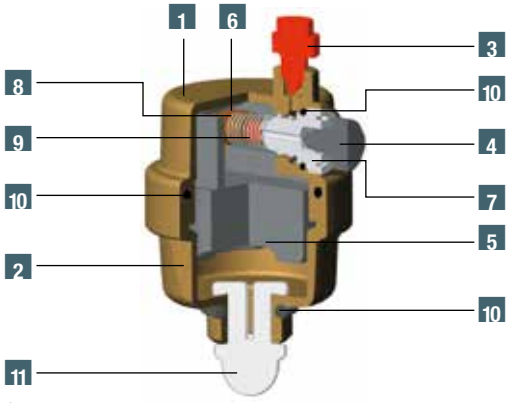
Tecno-Varia

Dimension	Pcs. pack	Code	Price €
3/8" reduced + bubble-breaker	12	00400000	7,93
3/8" standard + bubble-breaker	12	00400002	8,47
1/2" standard	12	00400004	8,47

Varia

Automatic air valve





Construction

1. Casing in brass UNI EN 12165 CW617N
2. Cup in brass UNI EN 12165 CW617N
3. Red cap manual venting PA 6 stiffened
4. Black cap automatic venting PA 6 stiffened
5. Floater in PP
6. Splingle in PA 6
7. Ring in PPO
8. Spring in steel inox
9. Shutter in silicone rubber
10. O-ring in NBR
11. Bubble-breaker in PA 6 stiffened

Technical data

Thread UNI EN ISO 228-1
Maximum pressure 10 bar
Maximum temperature +120 °C

Product 100% tested



Emmeti patented

Varia reduced with bubble-breaker

Dimension	Pcs. pack	Code	Price €
3/8"	16	00400620	8,74



Varia standard with bleed-nipple al top and without bubble-breaker

Dimension	Pcs. pack	Code	Price €
1/2"	12	00400660	9,49



Varia maxi automatic air vent valve 3/4"

Dimension	Pcs. pack	Code	Price €
3/4"	10	00400340	15,31

Thread UNI EN ISO 228-1

Varia and Tecno-Varia accessories



Check valve

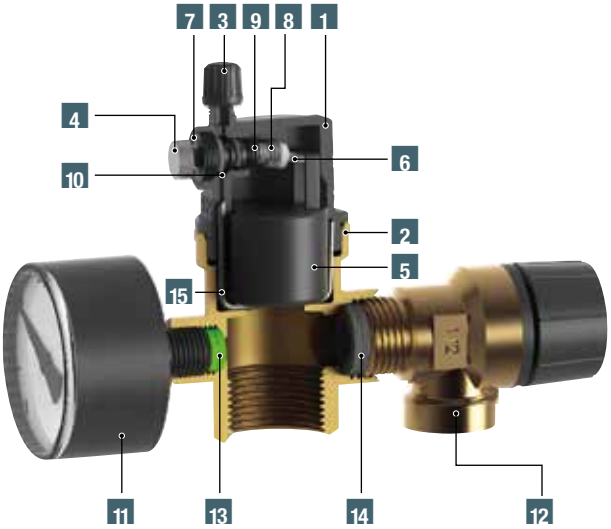
Dimension	Pcs. pack	Code	Price €
3/8" M x 3/8" F	12	00402060	2,35
1/2" M x 3/8" F	12	00402080	3,03
1/2" M x 1/2" F	12	00402100	3,70

Thread UNI EN ISO 228-1

System safety unit

Heat generator safety unit





Uses
Heat generating units

Technical data
Thread UNI EN ISO 228-1
Maximum operating pressure: 3 bar
Maximum operating termperature: 95 °C

Construction
1. Cup in Zytel (HTN51)
2. Body in brass UNI EN 12165 CW617N
3. Black cap manual venting PA 6 stiffened
4. Grey cap automatic venting PA 6 stiffened
5. Floater in PP
6. Splingle in PA 6
7. Ring in PPO
8. Spring in steel inox
9. Shutter in silicone rubber
10. O-ring in NBR
11. Pressure gauge Ø 50 / 4 bar
12. Safety relief valve 3 bar size 1/2" M-F
13. Gaskets in fiber
14. Gaskets in EPDM
15. Float support in Inox Steel AISI 304

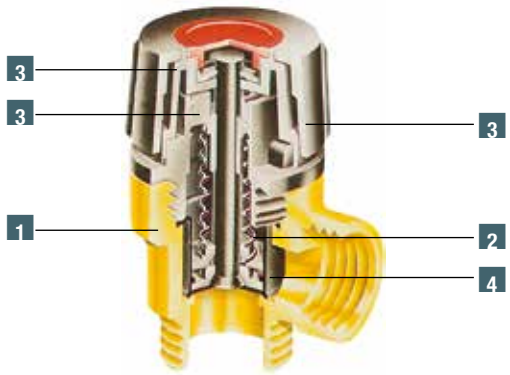
System safety unit

Dimension	Pcs. pack	Code	Price €
3/4" F	1	00200700	36,12

Sicura

Safety relief valves





Construction

1 Body in brass UNI EN 12165 CW617N
2 Spring in stainless steel AISI
3 Ring nut, knob and cap in nylon
4 Membrane in ethylpropylene rubber

Technical data

Membrane valve, with fixed high-lift calibration and direct reaction spring.
The calibration screw cannot be tampered with, without causing irretrievable damage to the valve.
The shutter membrane is guaranteed non-stick type and will not alter shape after prolonged utilisation.
The calibration pressure is stamped in relief on the plug placed on top of the valve.
The possibility of the valve being opened accidentally is prevented by a protection cap. In order to turn the knob, it is necessary to remove the cap.
Maximum operating temperature: 110 °C
All the valves are subjected to a hydraulic and functional test after calibration.
Thread UNI EN ISO 228-1

Note

intended use with pressure equipment referred to art. 4 paragraph 3 of directive PED 2014/68 /UE or art. 3 paragraph 3 of the directive PED 97/23 /EC

Product 100% tested



Safety valve

Dimension	Calibration pressure	Nominal discharge pressure	Pcs. pack	Code	Price €
1/2" F-F	3 bar	3,3 bar	12	00205030	8,33
1/2" M-F	3 bar	3,3 bar	12	00206030	8,33
1/2" F-F	6 bar	6,6 bar	12	00205060	8,33
1/2" M-F	6 bar	6,6 bar	12	00206060	8,33
3/4" F-F	3 bar	-	10	00202334	17,66
3/4" F-F	6 bar	-	10	00202634	18,03



Safety valve with special regulation

Dimension	Calibration pressure	Pcs. pack	Code	Price €
1/2" F-F	1,5 bar	12	00205015	8,33
1/2" F-F	1,8 bar	12	00205018	8,33
1/2" F-F	2 bar	12	00205020	8,33
1/2" F-F	2,5 bar	12	00205025	8,33
1/2" F-F	4 bar	12	00205035	8,82
1/2" F-F (*)	7 bar	10	00201270	9,86
1/2" F-F (*)	8 bar	10	00201282	17,68
1/2" F-F (*)	9 bar	10	00201292	17,60
3/4" F-F (*)	2,5 bar	10	00203425	18,03
1/2" F-F	8 bar	12	00205082	14,51
1/2" M-F	2 bar	12	00206020	8,33
1/2" M-F	4 bar	12	00206040	8,82

(*) Item on request for minimum lots: 30 days from order confirmation



With gauge fitting

Dimension	Calibration pressure	Nominal discharge pressure	Pcs. Pack	Code	Price €
1/2" F-F	3 bar	3,3 bar	10	00206080	8,84
1/2" F-F	6 bar	6,6 bar	10	00206082	8,84
1/2" M-F	3 bar	3,3 bar	10	00206090	10,42
1/2" M-F	6 bar	6,6 bar	10	00206092	10,42



With pressure gauge Ø 50

Dimension	Calibration pressure	Nominal discharge pressure	Pcs./pack	Code	Price €
1/2" F-F	3 bar	3,3 bar	2	00206100	17,38
1/2" F-F	8 bar	-	8	00206114	20,53
1/2" F-F	3 bar	3,3 bar	1	00206110	17,85
1/2" F-F	8 bar	-	1	00206112	17,00

For export market settings different from standard can be required

Alimatic

Automatic feeder



Technical data
Max upstream pressure: 10 bar
Adjustable field: 0,3÷4 bar
Max temperature: 40 °C
Pressure gauge: Ø 5,2 cm

Product 100% tested



Automatic filling valve

Dimension	Pcs. pack	Code	Price €
1/2" without pressure gauge	1	00200514	63,02
1/2" with pressure gauge	1	00200614	66,99

Para SCV

Electronic circulators pumps for heating systems



Modes of operation
n. 9 fixed speed curves

Dimensions: see section Technical Attachments

Technical data
Fluid temperature: from -10 °C to +95 °C
Voltage: 1~230 Vac +10/-15%, 50/60 Hz
Index of protection: IP X4D
Insulating class: F
Maximum operating pressure: 10 bar
Absorbption: 8-50 W (model 25/6-130), 6-75 W (model 25/7-130)
Minimum pressure at suction: 0,5 mCA (at 50 °C), 4,5 mCA (at 70 °C)
Connection: 1"1/2 Male
Interaxis connection: 130 mm
EEI≤0,20

Supplied complete with gaskets and cable length 1m.



Electronic circulator pump for heating systems Shark E

Model	Connections	Pcs. Pack	Code	Price €
25/6-130	1"1/2	1	00710372	412,30
15/4-130	1"1/2	1	00710374	436,90

Circulator pumps



Domestic circulator for the recirculation of domestic hot water

Temperature range for the fluid: from 2 to 95 ° C
Adjustment range: from 40 to 70 ° C - Max ambient temperature: 40 ° C
Max pressure: 10 bar
Power supply: 230 V / 50 Hz - Insulation class: F (155 ° C)
Attachment distance: 138 mm - Absorption: 6 W
Degree of protection: IP42

Size	Connections	Pcs. pack	Code	Price €
STAR Z NOVA T	1"	1	00710398	463,20

Application: domestic hot water recirculation. Three programmable operating times per day. Setting the minimum operating temperature. Thermal disinfection function. Anti-lock protection. Complete with check valve and shut-off valve and gaskets.



Pipe union manifactured in brass for circulator pump

Dimension	Pcs. pack	Code	Price €
3/4" F x 1"1/2 F	1	00801034	20,81
1" F x 1"1/2 F	1	00801100	18,23
1"1/4 M x 1"1/2 F	1	00801114	24,06
1"1/4 F x 2" F	1	00801130	28,45
1" F x 1/2" F	1	28130312	12,14

Supplied with gasket.

Threads: G (UNI EN ISO 228-1)

Heating unit components

Heating unit components



5 Years
Warranty

Multifunctional expansion vessels with fixed membrane and protective sleeve

Uses: heating, cooling and sanitary water systems.
Fixed membrane and protective sheath in BUTYL rubber
Operating temperature: -10°C ÷ +99°C
Max working pressure: 10 bar - Precharge pressure: 2.5 bar
Attack in stainless steel

Liters	Connection	H (mm)	Ø (mm)	Pcs. pack	Code	Price €
5	M 3/4" Gas	225	205	1	00820000	93,78
8	M 3/4" Gas	285	205	1	00820002	105,30
11	M 3/4" Gas	305	270	1	00820004	120,70
18	M 3/4" Gas	400	270	1	00820006	152,90
24	M 1" Gas	355	320	1	00820008	160,70

Conformi alla direttiva 2014/68/UE
Filettature: G (UNI EN ISO 10226)



Expansion vessels with fixed membrane

Uses: heating and cooling systems.
Fixed diaphragm in SBR
Operating temperature: -10 ÷ +100 °C
Max working pressure: 5 bar (35 litres), 6 bar (50 ÷ 300 litres)
Precharge pressure: 1.5 bar

Liters	Connection	H (mm)	Ø (mm)	Pcs. pack	Code	Price €
6	M 3/4" Gas	250	245	1	00103006	56,98
8	M 3/4" Gas	280	245	1	00103008	56,98
10	M 3/4" Gas	330	245	1	00103010	64,10
12	M 3/4" Gas	325	285	1	00103012	65,51
18	M 3/4" Gas	395	285	1	00103018	73,38
24	M 3/4" Gas	420	325	1	00103024	83,67
35	M 3/4" Gas	455	380	1	00102400	144,80
50	M 3/4" Gas	590	380	1	00102405	178,20
80	M 3/4" Gas	690	460	1	00102410	302,90
100	M 3/4" Gas	810	460	1	00102415	349,10
150	M 1" Gas	970	510	1	00102420	498,50
200	M 1" Gas	985	590	1	00102425	641,00
250	M 1" Gas	1230	590	1	00102430	801,00
300	M 1" Gas	1220	650	1	00102435	961,20

In compliance with directive 2014/68/UE. From 80 to 300 litres equipped with support base.
Threads: G (UNI EN ISO 10226)



Bracket for fixing expansion tank with fitting up to 24 liters

L-bracket for wall mounting of expansion vessel. The 3/4" M x 3/4" F fitting is equipped with a non-return valve. Gasket and wall plugs included.

Dimension	Pcs. pack	Code	Price €
	1	02706834	43,32



Stainless steel flexible hose kit for connection to expansion vessel

Flexible tube in stainless steel AISI 304 for connection of the expansion vessel to the safety group. Threading 3/4". Includes hose, fittings and gaskets.

Dimension	Pcs. pack	Code	Price €
L 500	1	02706836	22,70
L 1000	1	02706838	34,71

Threads: G (UNI EN ISO 10226)



Expansion vessels for sanitary water with interchanging membrane

Uses: hot and cold water, heating and cooling system circuits.
Interchangeable membrane in BUTYL
Operating temperature: -10 ÷ +100 °C
Max operating pressure: 10 bar
Precharge pressure: 3,5 bar (2 liters), 2,5 bar (5 ÷ 8 liters)

Liters	Connection	H (mm)	Ø (mm)	Pcs. pack	Code	Price €
2	M 1/2" Gas	240	120	4	00800002	55,20

In compliance with directive 2014/68/UE
Threads: G (UNI EN ISO 10226)



Expansion vessels for sanitary water

Uses: domestic hot and cold water circuit, pressurization autoclave, heating and cooling system circuits.
Interchangeable membrane in EPDM
Operating temperature: -10 ÷ +100 °C
Max operating pressure: 8 bar
Precharge pressure: 1,5 bar

Liters	Connection	H (mm)	Ø (mm)	Pcs. pack	Code	Price €
24	M 1" Gas	365	350	1	00800026	72,63

In compliance with directive 2014/68/UE
Threads: G (UNI EN ISO 10226)



Expansion vessels for sanitary water

Uses: domestic hot and cold water circuit, pressurization autoclave, heating and cooling system circuits.
Interchangeable membrane in EPDM
Operating temperature: -10 ÷ +100 °C
Max operating pressure: 10 bar
Precharge pressure: 1,5 bar (35 ÷ 80 liters), 2,5 bar (100 ÷ 300 liters)

Liters	Connection	H (mm)	Ø (mm)	Pcs. pack	Code	Price €
35 *	M 1" Gas	475	380	1	00800595	192,40
35	M 1" Gas	560	380	1	00800590	270,80
50	M 1" Gas	720	380	1	00800600	270,00
80	M 1" Gas	760	460	1	00800610	420,20
100	M 1" Gas	880	460	1	00800615	505,60
150	M 1" Gas	1030	510	1	00800620	843,70
200	M 1"1/4 Gas	1100	590	1	00800625	1.034,00
300	M 1"1/4 Gas	1250	650	1	00800630	1.348,00

In compliance with directive 2014/68/UE
*L35 without feet.
Threads: G (UNI EN ISO 10226)



ISPESL qualified and calibrated safety valve. Compliant with directive PED 97/23/EC

Dimension	Pressure	kcal/h	Pcs. pack	Code	Price €
1/2" x 3/4" Ø 15	3 bar	126.873	1	00208030	66,99
1/2" x 3/4" Ø 15	6 bar	221.407	1	00208060	66,99
3/4" x 1" Ø 20	3 bar	254.151	1	00209030	109,30
3/4" x 1" Ø 20	6 bar	443.520	1	00209060	111,20

Threads: G (UNI EN ISO 228-1)



F F sandblasted filter with inox steel filter

- Brass cap UNI EN 12165 CW617N;
- Body: brass UNI EN 12165 CW617N (from 1/2" to 1") - brass Delta C EN 1982 CB 7455 (from 1"1/4 to 2") - bronze SN UNI EN 1982 DIN 50930/6 (2"1/2);
- Female thread G (UNI EN ISO 228-1)
- Sieve filter in stainless steel.

Dimension	Pcs. pack	Code	Price €
1/2"	6	01005012	9,86
3/4"	7	01005034	17,66
1"	4	01005100	26,10
1"1/4	2	01005114	41,21
1"1/2	1	01005112	52,25
2"	1	01005200	87,34
2"1/2	1	01005205	202,70



Magnetic dirt separator for heating and cooling circuits

Technopolymer dirt separators with magnet are used to continuously eliminate the impurities contained in the hydraulic circuits.
They separate the impurities, even ferrous ones, found in the circuit water, collecting them at the bottom (collection pit).
Made of a composite material specifically for use in air conditioning systems, this dirt separator is particularly versatile because it can be installed on both horizontal and vertical pipes.

Technical data
Dirt separator body: PA66G30
Brass components: UNI EN 12165 CW 617 N or UNI EN 12164 CW 614 N
Elastomers used: EPDM and Viton
Magnet: Samarium - cobalt - Fluid used: Water, Water + Glycol (max 30%)
Maximum fluid temperature: 90°C
Maximum operating pressure: 3 bar
Magnetic field: 2 x 10000 G
Kvs: 10.4 (3/4") - 10.6 (1")

Dimension	Pcs. pack	Code	Price €
3/4" F	1	09089500	253,20
1" F	1	09089502	253,20



Vertical de-aeration device

Maximum operating temperature: 140 °C - Maximum operating pressure: 10 bar
Kv: 6,5 - Employment fluid: water, glicole

Dimension	Pcs. pack	Code	Price €
DN 15 - G 1"M x G 3/4"F	1	02707822	69,30
Extension 50 mm for air vent valve (*)	1	02707820	11,30

(*) Item to be out of range



Deaerator for installation in heating and conditioning circuits, with horizontal disposition on supply.

Construction
Body: brass CW 617N EN 12165 - Elastomer used: EPDM and NBR
Float: lever, in polypropylene resinin - Cartridge: Stainless steel AISI 302
Spring: Stainless steel AISI 302 - Connections: F UNI-EN-ISO-228
Usable fluid: Water + Glycol (max 30%) - Fluid maximum temperature: 110 °C
Maximum operating pressure: 10 bar - Maximum discharge pressure: 10 bar
Kv: 12,66 (3/4") - 20,44 (1") - 28,14 (1"1/4)

Dimension	Pcs. pack	Code	Price €
3/4"	1	00406010	149,60
1"	1	00406020	160,10
1"1/4	1	00406030	204,90

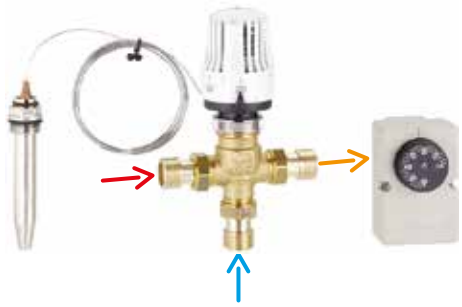


Overpressure valve

Maximum pressure: 6 bar
Maximum temperature: 110 °C
Calibration range: 0.03÷0.50 bar

Dimension	Pcs. pack	Code	Price €
3/4"	1	90000064	118,80

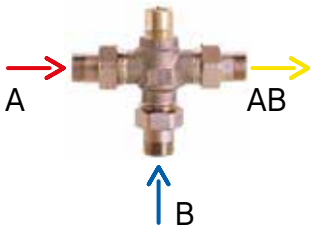
Mixing valves and accessories



Thermostatic regulation kit

Dimension	Pcs. pack	Code	Price €
1/2"	1	28130054	215,50
3/4"	1	28130056	229,20
1"	1	28130058	243,30

Consisting of: liquid-expansion thermostatic probe head (range of adjustment 20÷65°C) with remote immersion probe holder, safety contact thermostat. Mixing valve class PN 16, body in brass, spindle in chemically nickel-plated brass, shutter in MDPE. Complete with unions.
Threads: G (UNI EN ISO 228-1)
Threads for thermostatic head: M30x1,5



Three-ways mixing valve for electronic kit regulation

Dimension-Kvs (m³/h)	Pipe union connection	Pcs. pack	Code	Price €
DN 10 - 1,6 (*) (***)	G 3/8" M	1	28130210	211,20
DN 20 - 4 (*)	G 1/2" F	1	28130214	271,00
DN 25 - 6,3 (*)	G 3/4" F	1	28130316	817,60
DN 25 - 10 (**)	G 1" F	1	28130218	434,60
DN 32 - 16 (**)	G 1"1/4 F	1	28130220	573,60
DN 40 - 25 (**)	G 1"1/2 F	1	28130222	639,50

PN 16 class, body in bronze, spindle in steel and o-rings in PDPE. Complete with unions.
(*) Can be used in conjunction with electric servo-motors code 28130314 - 28130208 - 28130316
(**) Can be used in conjunction with electric servo-motors code 28130208 - 28130316
(***) Items to be out of stock

Stem BELOW: AB open, A open, B closed
Stem ABOVE: AB open, A closed, B open

Threads: F (UNI EN ISO 228-1)
Threads for servomotor: G 3/4"



3 points servomotor for three-ways mixing valve

Type of operation: 3-position control
Nominal voltage: 230 Vac (± 15 %)
Nominal frequency: 50/60 Hz
Maximum consumption: 6 VA
Permissible room temperature: from 1 to 50 °C
Maximum permissible fluid temperature: 110 °C
Nominal stroke: 5.5 mm
Stroke time (at 50/60 Hz): 150 s
Nominal force: 300 N
Degree of protection: IP40 according to EN 60529
Insulation class: II according to EN 60730 - Threaded fitting size: G 3/4"

Dimension	Pcs. pack	Code	Price €
3 points	1	28130208	324,20



0-10 V DC servomotor for 3-ways mixing valves until DN25 - Kvs 6,3

Type of operation: 0-10 V DC control
Nominal voltage: AC/DC 24 V (±15 % / ±20 %)
Nominal frequency: 50/60 Hz
Maximum consumption: 3 VA
Permissible room temperature: from 1 to 50 °C
Maximum permissible fluid temperature: 120 °C
Nominal stroke: 1,2 - 6,5 mm
Stroke speed: 5 mm/s (+- 25%)
Nominal force: 200 N
Degree of protection: IP54 according to EN 60529
Insulation class: III according to EN 60730
Threaded fitting size: G 3/4"

Dimension	Pcs. pack	Code	Price €
0-10 V DC	1	28130314	612,10

To be combined with PCO and RCE regulators
0 VDC = pusher UP (AB open, A closed, B open)
10 VDC = pusher DOWN (AB open, A open, B closed)



Servomotor 0-10 V DC for 3-ways mixing valves from DN25 - Kvs 10

Type of operation: 0-10 V DC control
Nominal voltage: AC/DC 24 V (±15 % / ±20 %)
Nominal frequency: 50/60 Hz
Maximum consumption: 3 VA
Permissible room temperature: from 1 to 50 °C
Maximum permissible fluid temperature: 120 °C
Nominal stroke: 1,2 - 6,5 mm
Stroke speed: 5 mm/s (+- 25%)
Nominal force: 300 N
Degree of protection: IP54 according to EN 60529
Insulation class: III according to EN 60730
Threaded fitting size: G 3/4"

Dimension	Pcs. pack	Code	Price €
0-10 V DC	1	28130316	817,60

To be combined with PCO and RCE regulators
0 VDC = pusher UP (AB open, A closed, B open)
10 VDC = pusher DOWN (AB open, A open, B closed)



Adjusting lockshield

Dimension	Pcs. pack	Code	Price €
1"	1	28130084	81,07

Body in nickel-plated brass, sealing parts in MPDE. Connection for steel pipe.
Female thread G (UNI EN ISO 228-1); Male thread R (UNI EN 10226)

Dynamic balancing kit



Dynamic balancing kit

The dynamic balancing kits are composed of:
1 Balancing valve
2 Capillary tube
3 Differential pressure valve
4 T-fitting with measuring and drainage socket

They allow to distribute the flow that serves a circuit, maintaining the constant differential pressure.
The differential pressure value can be adjusted within a given range to ensure the required flow rate within the circuit.

Technical data
Nominal pressure: PN20
Minimum operating temperature: -10 ° C
Maximum working temperature: 120 ° C
Maximum differential pressure: 450kPa

Construction
DZR brass, stainless steel, greyron, PPS with glass fiber - Seals: EPDM, HNBR

Size	Differential pressure regulation range		Pcs. pack	Code	Price €
1/2" F	20-60 kPa	DN15 - PVM15	1	01406296	464,60
3/4" F	20-60 kPa	DN20 - PVM20	1	01406298	437,40
1" F	20-80 kPa	DN25 - PVM25	1	01406300	542,40
1"1/4 F	20-80 kPa	DN32 - PVM30	1	01406302	804,30
1"1/2 F	20-80 kPa	DN40 - PVM40	1	01406304	908,00
2" F	20-80 kPa	DN50 - PVM50	1	01406306	1.076,00

Threads: G (UNI EN 10226)



Balance valve

Balancing valves for the correct calibration and adjustment of heating, conditioning and sanitary.
They are equipped as standard with two pressure inlets, quick coupler, for connection to an electronic differential pressure gauge.

Technical data
Maximum operating pressure: 20 bar
Minimum operating temperature: - 20 ° C (for water and glycol solutions)
Max operating temperature: 120 ° C (for water solutions and additives anti-boiling
Minimal pressure drop: 2 kPa

Construction
Body: DZR brass - Seals in EPDM

Dimension	Kv	Pcs. pack	Code	Price €
3/4" F F - DN20	0.34÷5.10	1	01406290	86,56
1" F F - DN25	0.48÷8.8	1	01406292	105,00
1"1/4 F F - DN32	0.79÷13.10	1	01406294	146,20

Threads: 3/4" G (UNI EN ISO 228-1), 1" and 1"1/4 Rp (UNI EN 10226)



Differential pressure gauge

Instrument for measuring differential pressure, for dynamic balancing valve kit. Supplied with two rechargeable NiMH AA batteries, carrying case, flexible hoses complete with needles for grafts on pressure taps.

Technical data
Error margin for pressure: 0.15%
Error margin for temperature: 1.5%
Fluid temperature: from -5 ° C to 90 ° C
Battery powered: 2xAA
Display: illuminated 128x64 pixels
Dimensions: 94x218x40 mm
Degree of protection: IP65

Size	Pcs. pack	Code	Price €
	1	01406314	2.835,00

Heat exchangers



SPES 210 heat exchangers with braze-welded heat exchangers

Plates material: stainless steel 316L - Brazing material: pure copper - Min. operating temperature: 0 °C - Max. operating temperature: 100 °C - Maximum operating pressure: 10 bar a 100 °C - Fittings: 3/4" M primary - 1/2" M secondary - Threads: G (UNI EN ISO 228-1)

Dimension	CSA (*)	Pcs. pack	Code	Price €
10 plates	5	1	02709200	99,50
12 plates	6	1	02709202	101,40
14 plates	8	1	02709204	115,20
16 plates	10	1	02709206	124,70
20 plates	14	1	02709208	130,10
24 plates	18	1	02709210	145,10
30 plates	20	1	02709212	174,20
34 plates	24	1	02709214	179,40
40 plates	28	1	02709216	237,40
Insulating shell for SPES 210 24 plates		1	01306508	37,21

Dimensions: see section Technical Attachments



SPES 315 heat exchangers with braze-welded heat exchangers

Plates material: stainless steel 316L - Brazing material: pure copper - Min. operating temperature: 0 °C - Max. operating temperature: 100 °C - Maximum operating pressure: 10 bar a 100 °C - Fittings: 3/4" M primary - 3/4" M secondary - Threads: G (UNI EN ISO 228-1)

Dimension	CSA (*)	Pcs. pack	Code	Price €
20 plates	20	1	02709220	180,20
24 plates	24	1	02709222	237,40
30 plates	30	1	02709224	243,70
34 plates	36	1	02709226	260,10
40 plates	40	1	02709228	304,30

Dimensions: see section Technical Attachments



SPES 524 heat exchangers with braze-welded heat exchangers

Plates material: stainless steel 316L - Brazing material: pure copper - Min. operating temperature: -196 °C - Max. operating temperature: 225 °C - Maximum operating pressure a 135 °C: 17 bar - Maximum operating pressure a 225 °C: 12 bar - Fittings: 1" M primary - 1" M secondary - Threads: G (UNI EN ISO 228-1)

Dimension	CSA (*)	Pcs. pack	Code	Price €
20 plates	42	1	02709231	572,80
30 plates	60	1	02709233	715,30
40 plates	80	1	02709235	842,80
50 plates	100	1	02709237	977,40
60 plates	120	1	02709239	1.119,00
80 plates	140	1	02709241	1.387,00

Dimensions: see section Technical Attachments

Controlpump



Electric controller

Dimension		Pcs. pack	Code	Price €
Adjustable setting	1,5÷3 bar	1	00700004	139,50

Threads: G (UNI EN ISO 228-1)

Autoclaves



Horizontal autoclave with brackets

Certified 97/23/CEE - Temperature from -10 °C to +100 °C - Maximum pressure: 8 bar - Precharge pressure: 1,5 bar - For sanitary water - EPDM membrane
Threads: G (UNI EN ISO 228-1)

Dimension	L (mm)	H (mm)	Ø (mm)	Pcs. pack	Code	Price €
24 lt	520	280	260	1	00802034	116,00

Spare membrane for autoclave

Dimension	Pcs. pack	Code	Price €
24 liters	1	00806024	37,30

For cylindrical and spherical models



5-ways fitting

Dimension	Pcs. pack	Code	Price €
1"	10	00810010	14,54

Threads: G (UNI EN ISO 228-1)

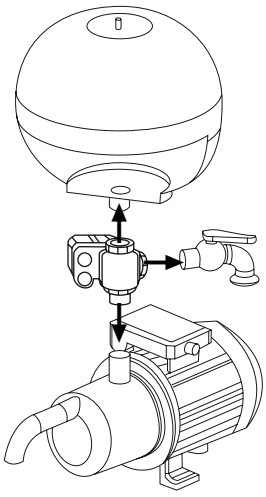


Automatic pressure switch for autoclave

Range of adjustment: from 1 to 5 bar - Factory calibration: 1.4-2.8 bar - Minimum differential: 0.6 bar - Maximum differential: 2.3 bar
Connection: 1/4" F swivel - Nominal current: 16A (10)A -
Nominal voltage: 250 V - Threads: G (UNI EN ISO 228-1)

Dimension	Pcs. pack	Code	Price €
	1	00300004	39,34





Pressure switch for autoclave with integrated pressure gauge and 3-ways fitting

Pressure switch, with integrated pressure gauge and 3-ways fitting, to be used with water in autoclave systems. The switch automatically adjust the start and stop of electric-pump in according to set pressure value.

Range of adjustment: from 1 to 15 bar - Factory calibration: 1,4-2,8 bar - Minimum differential: 0,6 bar - Maximum differential: 2,3 bar -
Nominal current: 16 A (10 A) - Nominal voltage: 250 Vac -
International protection: IP44 - Maximum environmental temperature: 55 °C -
Threads: G (UNI EN ISO 228-1)

Dimension	Pcs. pack	Code	Price €
1" M x 1" F x 1" F	1	00300008	48,03

Open manifolds

Open manifolds



Open manifold 2+2

Dimension	Ways	Pcs. pack	Code	Price €
2"	2+2+5	1	07400170	157,90
3"	2+2+5	1	07400174	189,40

Made in zinc-plated steel welding UNI EN 13134.
Lateral connections Female 1".
Auxiliar connection Female 1/2".
Max operating pressure: 8 bar.
Threads: G (UNI EN ISO 228-1)

Dimensions: see section Technical Attachments

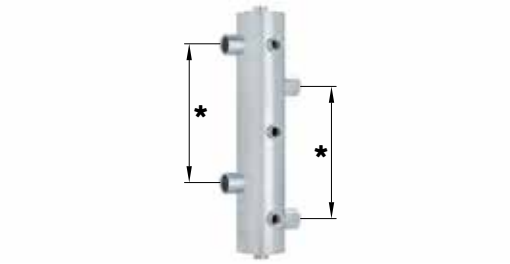


Open manifold 2+2 S

Dimension	Ways	Pcs. pack	Code	Price €
3"	2+2+5 S	1	07400182	252,10

Made in zinc-plated steel welding UNI EN 13134.
Lateral connections Female 1".
Auxiliar connection Female 1/2".
Max operating pressure: 8 bar
Threads: G (UNI EN ISO 228-1)

Dimensions: see section Technical Attachments



Open manifold 2+2 S, takeoff Firstbox

Dimension	Ways	Pcs. pack	Code	Price €
3"	2+2+5 S	1	07400284	400,10

Made in zinc-plated steel welding UNI EN13134.
Lateral connections Female 1"1/4
Auxiliar connection Female 1/2".
Max operating pressure: 8 bar.
Threads: G (UNI EN ISO 228-1)

(*) Takeoff Firstbox 159 mm

Dimensions: see section Technical Attachments

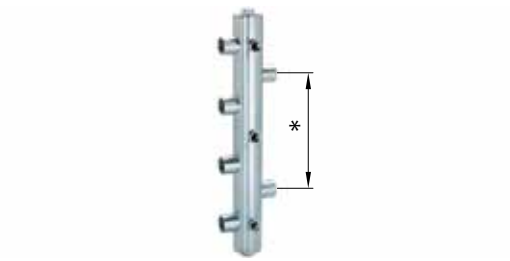


Open manifold 4+2

Dimension	Ways	Pcs. pack	Code	Price €
3"	4+2+5	1	07400176	202,90

Made in zinc-plated steel welding UNI EN 13134.
Lateral connections Female 1".
Auxiliar connection Female 1/2".
Max operating pressure: 8 bar
Threads: G (UNI EN ISO 228-1)

Dimensions: see section Technical Attachments page 533



Open manifold 4+2, takeoff Firstbox

Dimension	Ways	Pcs. pack	Code	Price €
3"	4+2+5	1	07400286	443,60

Made in zinc-plated steel welding UNI EN13134.
Lateral connections Female 1"1/4.
Auxiliar connection Female 1/2".
Max operating pressure: 8 bar.
Threads: G (UNI EN ISO 228-1)

(*) Takeoff Firstbox 159 mm.

Dimensions: see section Technical Attachments

Open manifolds



Open manifold 6+4

Dimension	Ways	Pcs. pack	Code	Price €
3"	6+4+5	1	07400186	349,60

Made in zinc-plated steel welding UNI EN 13134.
Lateral connections Female 1".
Auxiliar connection Female 1/2".
Max operating pressure: 8 bar.
Threads: G (UNI EN ISO 228-1)

Dimensions: see section Technical Attachments



Insulating shells for open manifolds

Dimension	Pcs. pack	Code	Price €
2"	1	01306504	43,37

In extruded polyethylene.
Suitable for installation with open manifolds code 07400170 and 07400172

Adjustment and accessories



CE 0497
ENEC 03
According to ISPESL

Immersion thermostat

Connection: M 1/2" - Bulb lenght: 90 mm - Setting: from 30÷90 °C ± 3
Max temperature: 105 °C - Contacts: 250 V 10(2) A
Security temperature: 100 +0 -6 - Differential: 6 °C
Threads: R (UNI EN 10226)

Dimension	Pcs. pack	Code	Price €
Thermostat for adjustment	1	02012052	30,35
Regulation and safety bi-thermostat with manual reset	1	02012060	64,01



Contact thermostat

Setting 30÷90 °C ± 3 / 0÷60 °C ± 3 - Max temperature: 105 °C -
Contacts: 250 V 10(2) A - Differential: 6 °C

Dimension	Pcs. pack	Code	Price €
30÷90 °C	1	02012040	22,47
0÷60 °C	1	02012038	22,47



CE 0497
ENEC 03
According to ISPESL

Adjustment capillary thermostat

Bulb lenght: 65 mm - Ø bulb: 7 mm - Setting: 30÷90 °C ± 3 -
Contacts: 400 V 16(4) A - Differential: 4 °C

Dimension	Pcs pack	Code	Price €
Capillar 1000 mm 30÷90 °C	10	02016014	20,84
Capillar 1500 mm 30÷90 °C	10	02016016	20,84



CE 0497
ENEC 03
According to ISPESL

Safety capillary thermostat

Temperature: 100 °C +0 -6 - Bulb lenght: 70 mm - Ø bulb: 6,5 mm -
Contacts P1: 250 V 10(2,5) A - Contacts P1: 250 V 2 A

Dimension	Pcs. pack	Code	Price €
Capillar 1000 mm	10	02018095	20,84
Capillar 1500 mm	10	02018097	21,39



Safety pressure switch with manual reset, in confirm to directive 2014/68/UE.

Maximum pressure switch for heating systems to automatically stop the heat generator once a preset maximum water pressure limit has been reached.

Range of adjustment: from 2 to 4,5 bar - Factory calibration: 3 bar -
Nominal current: 16A (10)A - Nominal voltage: 250 V -
Max fluid temperature: from 20°C to 110 °C - Max room temperature: 50°C -
Connection: 1/4" F - Type of contact: NC - Threads: G (UNI EN ISO 228-1)

Dimension	Pcs. pack	Code	Price €
1/4"	1	00300006	60,32



Minimum pressure switch with manual reset, in confirm to directive 2014/68/UE.

Protection rating: IP44 - Type of contact: N.O. - Adjustment range: 0.5 ÷ 1.7 bar - Default setting: 0.9 bar - Nominal current:16 (10)A - Nominal voltage: 250V - Max fluid temperature: from 20 °C to 110 °C - Max room temperature: 50 °C - NBR rubber membrane with fabric insert - Threads: G (UNI EN ISO 228-1)

Dimension	Pcs. pack	Code	Price €
1/4" F	1	00300010	66,99

Minimum pressure switch for heating systems to automatically stop the heat generator once a preset minimum water pressure limit has been reached.

Accessories for adjustment



Flow switch for liquids

Max. admissible fluid temperature: -40 ÷ +120 °C -
Max. admissible pressure: 11 bar -
Contacts: dust-proof microswitch, contacts in commutation (n.c./n.o.) -
Contacts capacity: 24...250 V AC 15 (8) A -
Blades: stainless steel AISI 316L, 1", 2", 3", 8" - Cover: in ABS -
Threads: R (UNI EN 10226)

Connection	Pcs. pack	Code	Price €
1"	1	01200700	236,90



Pressure gauge compliant with EN837.1 radial connection ABS case

Dimension	Pressure	Pcs. pack	Code	Price €
1/8" x 50 mm (*)	25 bar	10	00612444	9,21
3/8" x 80 mm (*)	25 bar	1	00614025	18,66

Threads: G (UNI EN ISO 228-1)

(*) Items to be out of stock



Pressure gauge according to EN837.1 with radial connection and casing in ABS

Dimension	Pressure	Pcs. pack	Code	Price €
1/4" x 63 mm	2,5 bar	10	00622003	9,21
1/4" x 63 mm	4 bar	10	00622004	9,21
1/4" x 63 mm	6 bar	10	00622006	9,21
1/4" x 63 mm	10 bar	10	00622010	9,21
1/4" x 63 mm	16 bar	10	00622016	9,21
1/4" x 63 mm	25 bar	10	00622025	9,21
3/8" x 80 mm	4 bar	1	00624004	18,66
3/8" x 80 mm	6 bar	1	00624006	18,66
3/8" x 80 mm	10 bar	1	00624010	18,66
3/8" x 80 mm	16 bar	1	00624016	18,66

Threads: G (UNI EN ISO 228-1)



Pressure gauge according to EN837.1 with side back connection and casing in ABS

Dimension	Pressure	Pcs. pack	Code	Price €
1/4" x 63 mm	4 bar	10	00626004	9,86
1/4" x 63 mm	6 bar	10	00626006	9,86
1/4" x 63 mm	10 bar	10	00626010	9,86

Threads: G (UNI EN ISO 228-1)



Immersion thermometer according to EN 13190 complete with trap

Temperature 0÷120 °C

Dimension	L bulb	Pcs. pack	Code	Price €
1/2" x 63 mm	50 mm	10	00620612	11,12
1/2" x 80 mm	50 mm	4	00620812	11,12
1/2" x 80 mm	100 mm	2	00621812	17,66

Threads: G (UNI EN ISO 228-1)



Capillary thermometer Ø 52

Temperature 0÷120 °C - Bulb lenght 25 mm - Ø bulb 6,5 mm - Ø cassa: 52 mm

Capillar Dimension	Pcs. pack	Code	Price €
1000 mm	10	00622056	17,66

Accessories for adjustment



Thermo-manometer

Pressure 0÷4 bar - Temperature 0÷120 °C - Ø casing 80 mm -
Fitting 1/4" M complete with check valve 1/2" M

Dimension	Pcs. pack	Code	Price €
Back connection	1	00620012	24,85
Radial connection	1	00622012	34,54



Capillary thermo-manometer

Pressure 0÷4 bar - Temperature 0÷120 °C - Capillar lenght 1 mt - Lenght bulb temperature 19 mm - Ø bulb temperature 6,5 mm - Pressure outlet connection M 14x1 - Ø casing 52 mm

Dimension	Pcs. pack	Code	Price €
	6	00622052	35,52



Check valve for capillary thermo-manometer

Dimension	Pcs. pack	Code	Price €
M 14 x 1 F x 1" M	6	00600010	4,37

To use only for Capillary themomanometer code 00622052
Male thread: R (UNI EN 10226)



Bibcock with pressure gauge union according to ISPESL standards

Pressure: 0÷4 bar - Temperature: 0÷120 °C

Dimension	Pcs. pack	Code	Price €
1/4"	10	00508014	18,66
3/8"	10	00508038	20,93

Female thread: Rp (UNI EN 10226);
Male thread: R (UNI EN 10226).



Socket for thermometer according to ISPESL standards, connection M 1/2"

Dimension	Pcs. pack	Code	Price €
Ø 7 L 50 mm (A)	1	00510682	7,45
Ø 9 L 50 mm (A)	20	00510012	4,04
Ø 10 L 50 mm (A)	12	00510684	7,75
Ø 10 L 100 mm (B)	12	00510686	10,09
Ø 10 L 302 mm (B)	1	00510690	13,49
Ø 15 L 110 mm (B)	12	00510688	7,90

Threads: G (UNI EN ISO 228-1)



Elastic connection for pressure gauge

Dimension	Pcs. pack	Code	Price €
1/4"	10	00512008	20,34
3/8"	10	00512010	20,34

Female thread: G (UNI EN ISO 228-1);
Male thread: R (UNI EN 10226).



Fuel cut-off valve ISPESL qualified and calibrated, ATEX approved. Compliant with directive PED 97/23/EC

Manual reset and positive action - Calibration temperature 97 ± 3°C
Capillar lenght 5 m - Reset 85 °C - For use with liquids and gaseous combustibles

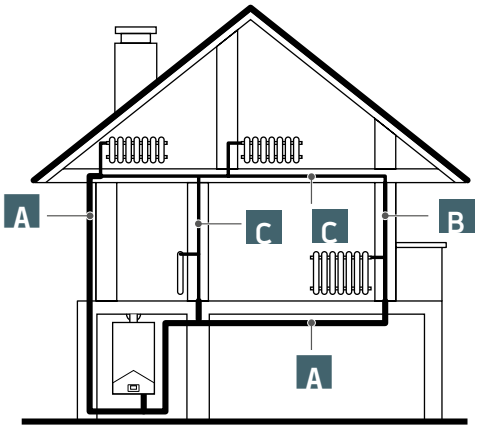
Dimension	Pcs. pack	Code	Price €
1/2" - P max 6 bar	1	00504010	432,70
3/4" - P max 6 bar	1	00504012	568,30
1" - P max 6 bar	1	00504014	735,90
1"1/4 - P max 1 bar	1	00504016	791,30
1"1/2 - P max 1 bar	1	00504018	896,30
2" - P max 1 bar	1	00504020	1.058,00

Threads: G (UNI EN ISO 228-1)

Insulation

Thermic insulation





External Ø of pipe (mm)

Thermal conductivity (W/m °C)	<20	20-39	40-59	60-79	80-90	>100
0,030	13	19	26	33	37	40
0,032	14	21	29	36	40	44
0,034	15	23	31	39	44	48
0,036	17	25	34	43	47	52
0,038	18	28	37	46	51	56
0,040	20	30	40	50	55	60
0,042	22	32	43	54	59	64
0,044	24	35	46	58	63	69
0,046	26	38	50	62	68	74
0,048	28	41	54	66	72	79
0,050	30	44	58	71	77	84

Reference for the calculation example

Compliance with Italian regulation
The principal regulation on the subject is contained in Annex B of Presidential Decree 412/93.
Note: the useful thermal conductivity for each diameter of pipe can be derived from the minimum thickness of the insulation in relation to the pipe to be insulated with respect to the outside, multiplying the thickness indicated in the table in Appendix B below by 0.3, 0.5 or 1.0 .

Example of calculation
Thermal conductivity of material = 0.040 W/m °C
External diameter of pipe / 22 mm
Position (see drawing) C
Calculation 30 x 0.3 = 9 mm
where 30 = thickness from table; 0.3 coefficient for category.
Emmeti insulating pipes, in accordance with Statute 549 of 28/12/1993, do not contain CFCs and are composed of non-toxic materials.
Insulation of heat distribution networks within thermic plants

Installation type A (A symbol)

The piping in the distribution networks for warm fluids, whether in liquid form or steam, of thermic power plants, must be insulated with a special insulating material, where the minimum required thickness determined by the following table, in relation to the diameter of the piping given in mm and the useful thermic conductivity of the insulating material shown in W/m °C at a temperature of 40 °C.

Installation type B (B symbol)

The vertical mounting of the piping is to be placed on the other side of the building's heat insulation, towards the inside of the building, and the relevant minimum required thicknesses for the insulation, as resulting from the table, must be multiplied by 0,5.

Installation type C (C symbol)

For pipes runnning inside structures which do not face either outside or unheated rooms, the thicknesses indicated in the table just be multiplied by 0,3.

Law 10/91
Ecological

ISO GUM



EN 14304

Uses
Thermic insulation for both hot and cold water piping.
Features a steam barrier to prevent the formation of condensation on cold piping. Supplied in 2-metre-long bars.
For external installation, provide suitable protection against bad weather and UV rays.
For underground installations, provide suitable protection against humidity and direct contact with the ground (the use of an external sheath is recommended).

Construction
Obtained by extrusion of elastomer (expanded synthetic rubber) with closed cell.

Technical data
Operating temperature range: + 110°C÷- 40°C
Thermic conductivity at 40 °C: 0.040 W/m °C
Density: 60 ± 20 kg/m^3
Reaction class to fire: 1 (UNI 9177) - BL-s3-d0 (EN 13501-1)
Resistance to diffusion of water vapour: (μ) = 7000
Designation code (EN 14304): FEF - EN 14304-ST(+)110-ST(-)40-MU10000-WS01-CL500-pH7

Installation
In consideration of the possible variations in length related to the fluid temperature fluctuations, it is advisable to compress the insulating pipe by about 5 cm per metre and either glue or tape the junctions between two sections.

CE



Reading example
C 18 - 3/8" - DN 10 - 16x2

C	Type of installation
18	Ø copper pipe
3/8"	Ø steel pipe
DN 10	Ø nominal
16x2	Ø multi-layer pipe

CE

EN 14304

ISO GUM in expanded elastomer

Dimensions	Thickness	Mts. pack	Code	Price €
C 18 - 3/8" - DN 10 - 16x2 - 18x2	9 mm	166	02967748	209,40
C 22 - 1/2" - DN 15 - 20x2	9 mm	136	02967724	156,40
C 28 - 3/4" - DN 20 - 26x3	9 mm	98	02967726	163,30
C 35 - 1" - DN 25 - 32x3	9 mm	76	02967728	138,20
42 - 1"1/4 - DN 32 - 40x3,5	9 mm	60	02967730	126,50
48 - 1"1/2 - DN 40 - 50x4	9 mm	50	02967732	113,10
54 - 1"1/2 - DN 40 - 50x4	9 mm	46	02967734	132,80
60 - 2" - DN 50 - 63x4,5	9 mm	46	02967736	140,60
76 - 2"1/2 - DN 60-65 - 75x5	9 mm	40	02967738	163,30
B 18 - 3/8" - DN 10 - 16x2 - 18x2	13 mm	118	02967756	185,30
C 22 - 1/2" - DN 15 - 20x2	13 mm	98	02967758	160,30
C 28 - 3/4" - DN 20 - 26x3	13 mm	78	02967760	159,60
C 35 - 1" - DN 25 - 32x3	13 mm	58	02967762	138,20
C 42 - 1"1/4 - DN 32 - 40x3,5	13 mm	48	02967764	130,60
C 48 - 1"1/2 - DN 40 - 50x4	13 mm	40	02967766	126,50
C 54 - 50x4	13 mm	34	02967768	131,20
60 - 2" - DN 50 - 63x4,5	13 mm	32	02967770	132,80
76 - 2"1/2 - DN 60-65 - 75x5	13 mm	26	02967772	134,30
89 - 3" - DN 80	13 mm	24	02967774	156,40
B 22 - 1/2" - DN 15 - 20x2	19 mm	64	02967782	242,10
B 28 - 3/4" - DN 20 - 26x3	19 mm	48	02967784	209,40
B 35 - 1" - DN 25 - 32x3	19 mm	36	02967786	187,10
B 54 - 50x4	19 mm	24	02967788	187,80
C 42 - 1"1/4 - DN 32 - 40x3,5	19 mm	32	02967802	209,40
C 48 - 1"1/2 - DN 40 - 50x4	19 mm	24	02967804	164,70
C 60 - 2" - DN 50 - 63x4,5	19 mm	22	02967790	185,30
C 76 - 2"1/2 - DN 60-65 - 75x5	19 mm	18	02967792	209,40
C 89 - 3" - DN 80	19 mm	14	02967794	164,10
C 114 - 4" - DN 100	19 mm	12	02967806	209,40
C 140 - 5" - DN 125	19 mm	08	02967796	209,40

ISO GUM accessories

Description	Dimension	Pcs. pack	Code	Price €
Glue	0,75 lts can	1	02965900	23,82
Adhesive tape	10 mts roll	1	02965950	18,23

Filters



Water filter 9”

Head in polypropylene - Max operating pressure 8 bar
Brust pressure 28 bar - Max continuous operating temperature 40 °C
Diameter 178 mm
Threads: G (UNI EN ISO 228-1)

Dimension	Pcs. pack	Code	Price €
3/4” 3 pieces	1	15460004	47,00
1” 3 pieces	1	15460006	47,00

Suitable for use in water treatment plants intended for human consumption and compliant with the Italian D.M. 174/2004 and subsequent amendments



Water filter 5”

Head in polypropylene - Max operating pressure: 8 bar
Brust pressure: 28 bar - Max operating temperature: 40 °C
Diameter: 178 mm
Threads: G (UNI EN ISO 228-1)

Dimension	Pcs. pack	Code	Price €
3/4” 3 pieces	1	15460028	38,76

Suitable for use in water treatment plants intended for human consumption and compliant with the Italian D.M. 174/2004 and subsequent amendments



Cartridge 5” and 9”

Nominal delivery 3.500 l/h
1 - Nylon: filtration 60 micron
2 - Polypropylene: filtration 10 micron

Dimension	Pcs. pack	Code	Price €
5” Nylon	1	15460018	16,73
5” Polypropylene	2	15100005	6,03
9” Nylon	1	15120110	19,00
9” Polypropylene	1	15100010	6,72

Suitable for use in water treatment plants intended for human consumption and compliant with the Italian D.M. 174/2004 and subsequent amendments



Cartridge 9” with polyphosphates

Dimension	Pcs. pack	Code	Price €
	1	15120112	47,00

Suitable for use in water treatment plants intended for human consumption and compliant with the Italian D.M. 174/2004 and subsequent amendments



Polyphosphates

Dimension	Kg pack	Code	Price €
	20	15500000	20,59

Suitable for use in the food industry according to D.M. 443 dated 21/12/1990 under normal usage conditions.



Spreader pipe

Dimension	Pcs. pack	Code	Price €
5”	6	15410550	3,25
9”	6	15140010	3,25

Devices for clean drinking water



Spreader

Dimension	Pcs. pack	Code	Price €
For 3 pieces	6	15140012	2,29



Spanner for filter

Dimension	Pcs. pack	Code	Price €
For 3 pieces	1	15460012	8,14

Suitable for use in water treatment plants intended for human consumption and compliant with the Italian D.M. 174/2004 and subsequent amendments
Item to be out of range



Metal bracket for filter without by-pass

Dimension	Pcs. pack	Code	Price €
	1	15460014	12,04



Square water filter for 5" cartridge

Max operating pressure: 6 bar - Brust pressure: 25 bar
Max continuous operating temperature: 40 °C - Diameter: 90 mm
Threads: G (UNI EN ISO 228-1)

Dimension	Pcs. pack	Code	Price €
1/2" 3 pieces	1	15400012	24,60

Suitable for use in water treatment plants intended for human consumption and compliant with the Italian D.M. 174/2004 and subsequent amendments



5" cartridge for square filter

1 - Nylon: filtration 60 micron
2 - Polypropylene: filtration 10 micron

Dimension	Pcs. pack	Code	Price €
Nylon	1	15410520	16,29
Polypropylene	2	15410510	6,03

Suitable for use in water treatment plants intended for human consumption and compliant with the Italian D.M. 174/2004 and subsequent amendments



Spreader pipe 5" for square water filter

Dimension	Pz. conf.	Code	Price €
	6	15410550	3,25



Spanner for square filter 5"

Dimension	Pcs. pack	Code	Price €
For 3 pieces	1	15350001	7,15



Anti-scaling filter for washmachine

Dimension	Pcs. pack	Code	Price €
	12	15500034	17,16

Water meters and solenoid valves

Water meters



Water meter model with wet dial

Dimension	Water	Pcs. pack	Code	Price €
1/2"	Cold	1	01138000	58,81
3/4"	Cold	1	01138002	76,02
1"	Cold	1	01138004	121,40
1"1/4	Cold	1	01138006	150,20
1/2"	Hot	1	01138020	58,81

Complies with Leg. Dec. no. 84 dated 19/05/2016 (implementation of European directive 2014/32/EU MID)
Cold water maximum temperature 30 °C. Hot water maximum temperature 90 °C
Threads: G (UNI EN ISO 228-1)



Water meter models with dry dial

Dimension	Water	Pcs. pack	Code	Price €
1/2"	Cold	1	01138040	81,30
1"	Cold	1	01138044	186,60
1"1/4	Cold	1	01138046	186,60
1"1/2	Cold	1	01138048	378,50
2"	Cold	1	01138050	905,30

Complies with Leg. Dec. no. 84 dated 19/05/2016 (implementation of European directive 2014/32/EU MID)
Cold water maximum temperature 30 °C
Threads: G (UNI EN ISO 228-1)



Water meter model with dry dial

Dimension	Water	Pcs. pack	Code	Price €
1/2"	Cold	1	01138080	58,81
3/4"	Cold	1	01138082	81,30
1/2"	Hot	1	01138084	76,02
3/4"	Hot	1	01138086	90,88

Complies with Leg. Dec. no. 84 dated 19/05/2016 (implementation of European directive 2014/32/EU MID).
Cold water maximum temperature 30 °C.
Hot water maximum temperature 90 °C. CEE metering class:
horizontal display installation: class B, vertical display installation: class A
Threads: G (UNI EN ISO 228-1)

Solenoid valves for water and air



Solenoid valve for water and air - Normally Closed type

Dimension	Type	Pcs. pack	Code	Price €
1/2" F	N.C. 230 V	1	00306200	80,68
3/4" F	N.C. 230 V	1	00306202	112,20
1" F	N.C. 230 V	1	00306204	122,60
1/2" F	N.C. 24 V	1	00306206	96,15
3/4" F	N.C. 24 V	1	00306208	112,20

Membrane in NBR
Body in brass CW617N (EN 12165)
Operating temperature: -10 °C ÷ +90 °C
Thread: G (UNI EN SIO 228-1)



Spare parts and accessories



Spare parts and accessories



Replacement bush + bush holder kit for Gerpex and Gerpex LBP fittings

Dimension	Pcs. pack	Code	Price €
16	10	09009000	1,79
20	10	09009002	1,98
26	5	09009004	2,88
32	5	09009006	3,36
40	5	09009008	7,28
50	4	09009010	10,57
63	2	09009012	12,79
75	1	09009014	17,62

Spare part only for water fittings. Not usable for gas.
The product warranty is conditioned by the integrity of the original fitting.

Spare parts for 3/4" screw fitting

	Dimension	Pcs. pack	Code	Price €
	Screw for dummy sleeve (*)	1	90008020	11,22
	Screw for dummy sleeve	1	90008022	16,62
	Screw for drilled sleeve with handwheel	1	90008030	9,66
NEW	Rosette + gasket for plasterboard	1	90008060	2,70

(*) Item to be out of stock



Set of 10 spare parts plastic butterfly handle for 3/4" blind quill screw assembly

NEW

Dimension	Pcs. pack	Code	Price €
Set of 10 butterfly handles	1	90008194	3,17



Set of 10 Brass Handles for 3/4" blind quill screw Group

NEW

Dimension	Pcs. pack	Code	Price €
Set of 10 brass handles	1	90008192	27,57



Spare battery 14,4 V for SMP32 pressing machine

Battery Lithium-Ion (Li-ion) - Weight: 500 g - Battery power: 2,6 Ah

Dimension	Pcs. pack	Code	Price €
2,6 Ah	1	28122018	450,80

Allows battery power to the SPM32 230 V pressing machine, replacing the 230 V adapter.



Battery charger 14,4 V for SPM32 pressing machine

Dimension	Pcs. pack	Code	Price €
	1	28122016	425,40



230 V adapter for SPM32 pressing machine

Dimension	Pcs. pack	Code	Price €
	1	28122010	918,20

Permits power supply to the SPM32 pressing machine, directly at 230 V, replacing the 14,4 V battery



Spare Battery 18 V for UAP332 pressing machine

Battery Lithium-Ion (Li-ion) - Weight: 400 g - Battery capacity: 4,0 Ah

Dimension	Pcs. pack	Code	Price €
4,0 Ah	1	28122052	804,90

Allows battery power to the SPM32 230 V pressing machine, replacing the 230 V adapter.