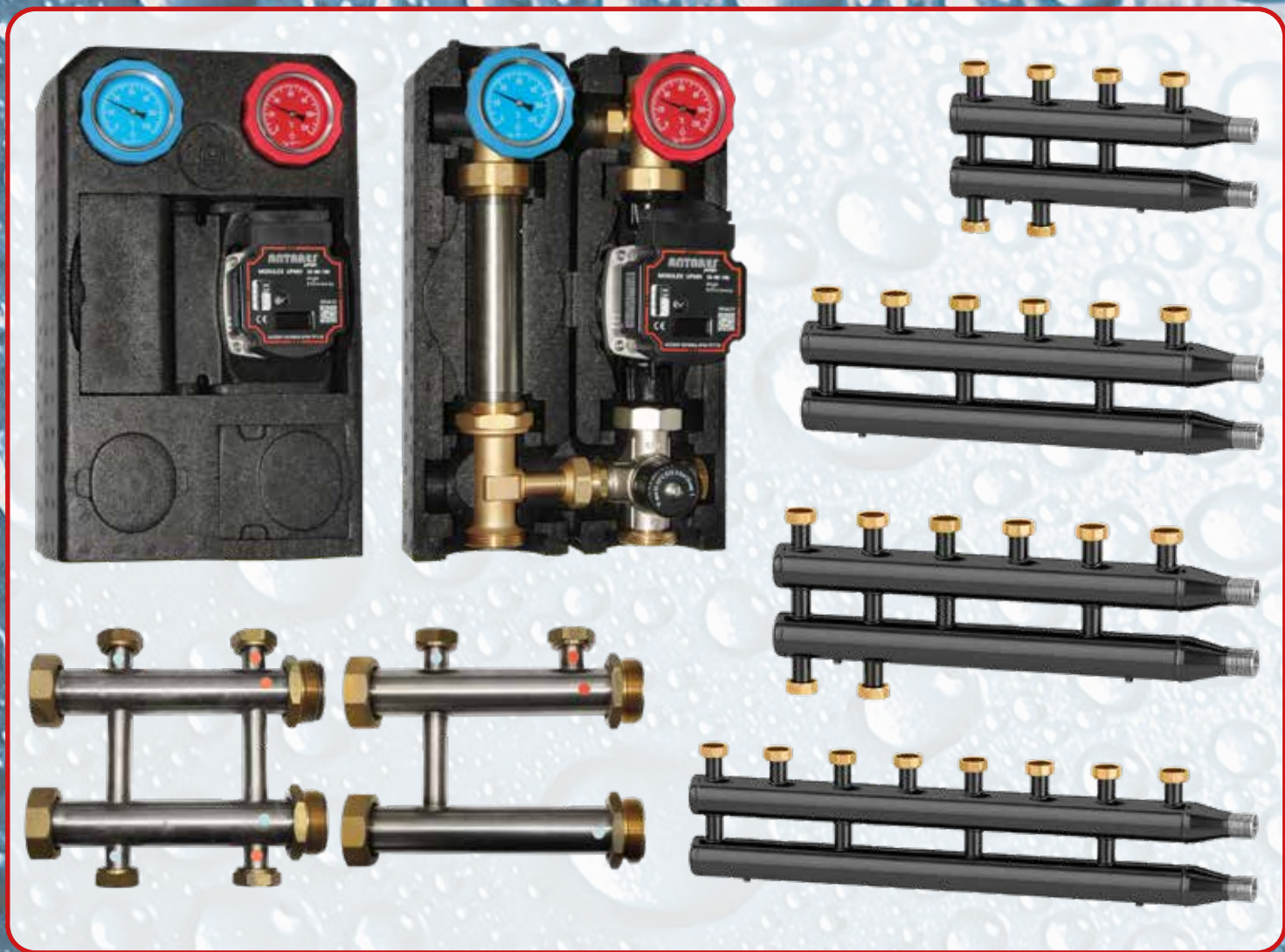




Pump groups and Manifolds **HYDRONIC SYSTEMS** Pre-assembled groups

Updated to: 01/2026



ANTARES
for water & fire

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Pre assembled groups for hydronic systems

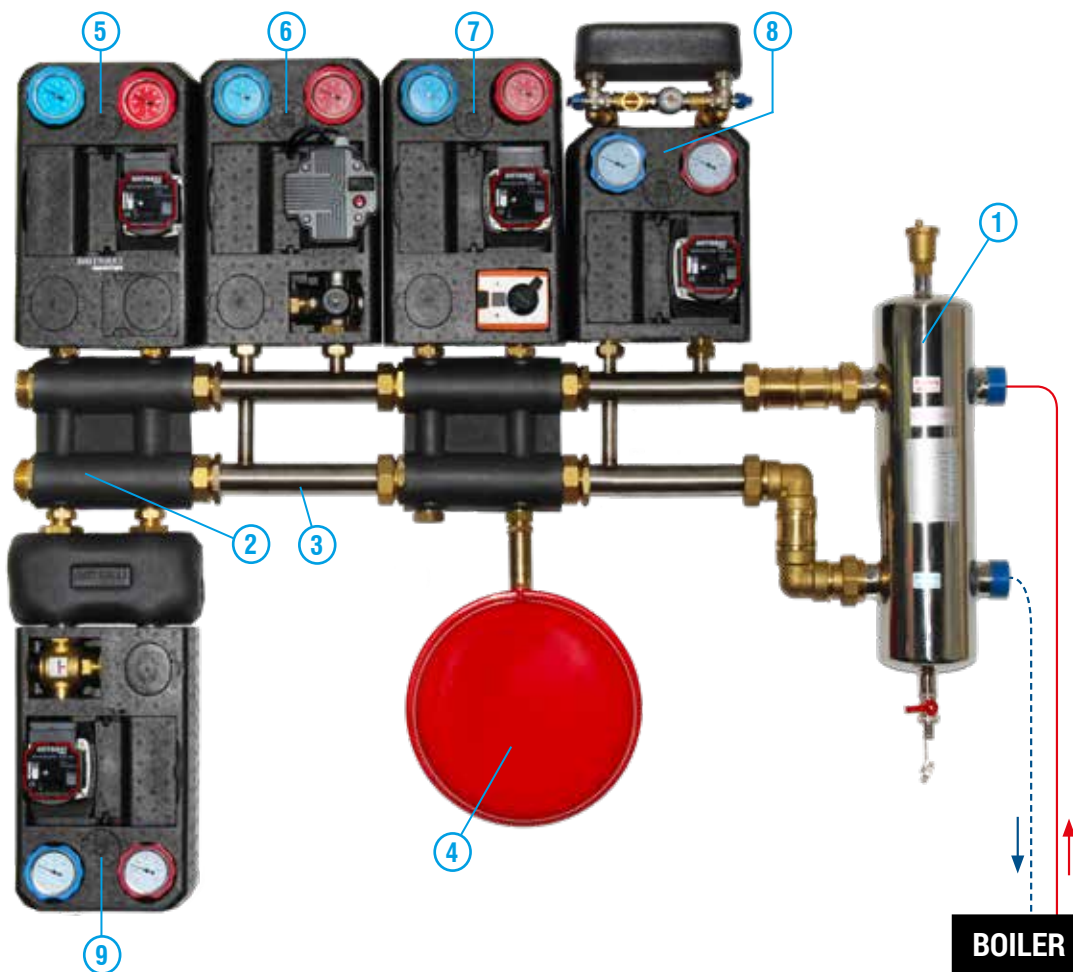
YOUR TIME IS VALUABLE!

As you know, it takes a lot of time to create connections to the boiler, pump installations, derivations, drain valves, mixing valves, safety valves, temperature and pressure control devices, shut-off valves, and so on. **ANTARES** offers a safe and fast solution, thanks to pre-assembled groups that can be installed according to your needs, in any type of situation.

System suitable for:

- Zoned hydronic systems: living-area and sleeping-area.
- System installation with distribution of individual circuits to separate zones.
- Installation of one or more pumps with or without mixing valve.
- Installation of one or more exchangers.
- Installation of expansion tank and of water supply.

The connections are made with threaded unions, allowing an easy and safe assembly, without the use of hemp or teflon.

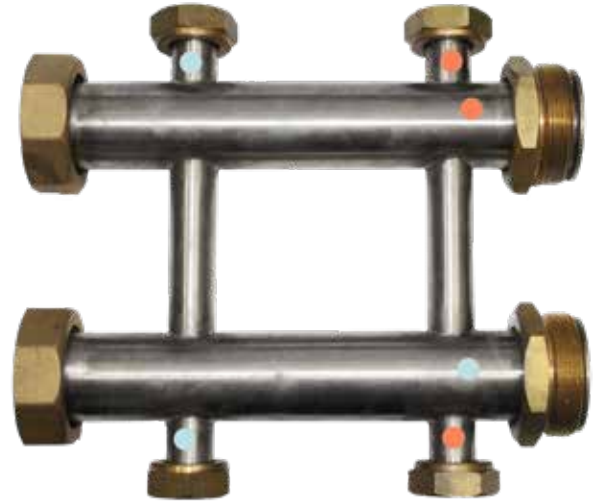


- ① Hydraulic separator, Item E.693
- ② Double opposed manifold group, Item E.600.04, E.600.24
- ③ Opposed manifold group, Item E.600.02, E.600.22.
- ④ Expansion tank Item E.051
- ⑤ Pump group with circulator pump, shut-off valves and thermometers.
- ⑥ Pump group with underfloor heating system temperature lowering with thermostatic mixer, circulator pump, shut-off valves and thermometers.
- ⑦ Pump group with mixing valve for temperature regulation, pump group, shut-off valves, thermometers and insulating shell.
- ⑧ Domestic hot water production pump group with circulation pump, shut-off valves, thermometers, plate heat exchanger, and thermostatic mixing valve for sanitary use.
- ⑨ Anti-condensation pump group for biomass boilers with circulation pump, shut-off valves, thermometers, thermostatic anti-condensation valves, and insulating shell.

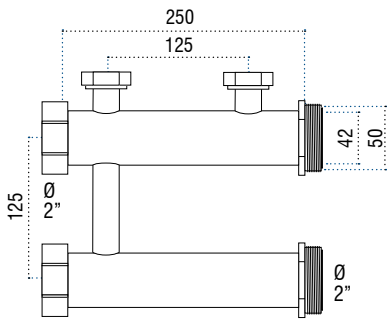
“MODULINOX” modular manifolds for hydronic systems



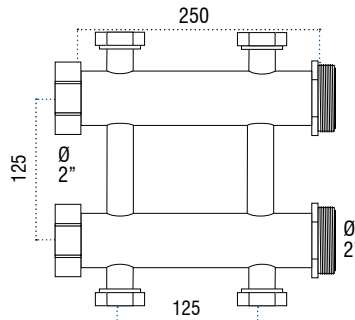
Art. E.600.0-



Art. E.600.2-



Art. E.600.0-



Art. E.600.2-

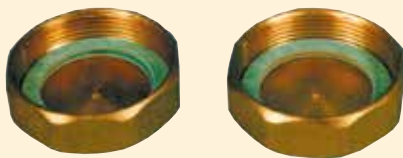


Manifolds coupling with insulating shell

Art. E.600 – Modular manifold “MODULINOX” for hydronic systems, double coplanar stainless steel AISI 304, DN 20, with 2 main connections with 2”M. and F. swivel fittings and 1” F. swivel coplanar derivations for pump groups.

In/out distance 125 mm. Distance between outlets, all 125 mm.

Type	Without thermal insulation shell	
Number of outputs	With 2 outlets With 1” F. swivel connections	With 4 opposing outlets With 1” F. swivel connections
Item code	E.600.02	E.600.04
Type	With thermal insulation shell	
Number of outputs	With 2 outlets With 1” F. swivel connections	With 4 opposing outlets With 1” F. swivel connections
Item code	E.600.22	E.600.24



Art. E.612.20

Art. E.612.20 – Pair of end caps 2” F. for manifold type E.600 (N.2 G.150.20).



Art. E.610.20

Art. E.610.20 – Pair of brass fittings adapters for installation of DN 25 groups on manifolds with outlets 1” F. swivel (DN 20).

Adaptors from 1” ½ F. to 1” M.



Art. E.619.02

Art. E.619.02 – Pair of clamps for wall mounting of “MODULINOX” manifold E.600.

Consisting of 2 heavy collars, with adjustable spacer, with dowel and fixing screws.

Manifolds for hydronic systems for pump groups DN 20



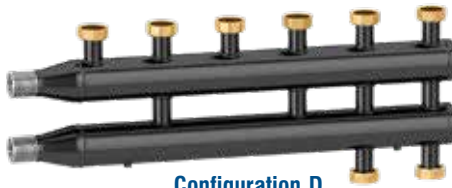
Configuration A



Configuration B



Configuration C



Configuration D



Configuration E

Art. E.700

They allow for easy assembly of the hydronic system. The various configurations provide compact dimensions, ideally suited for the use of pump groups, reducing installation time.

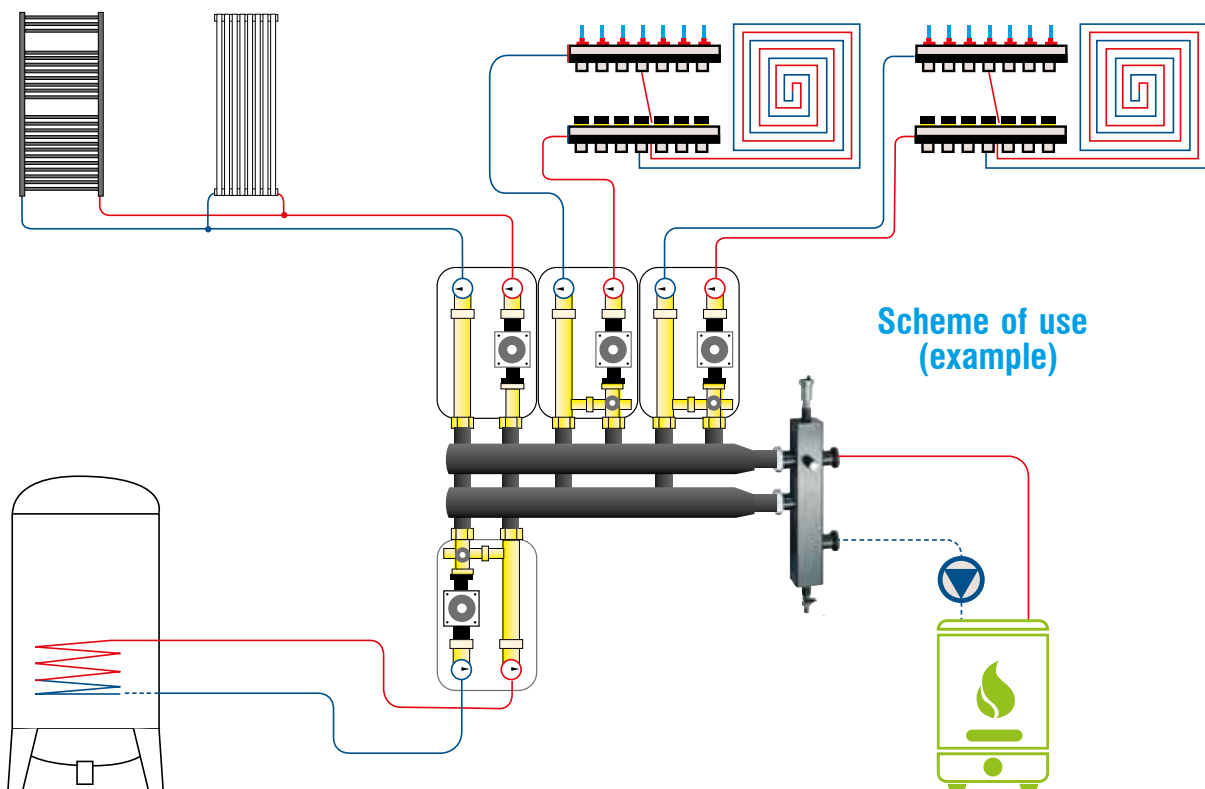
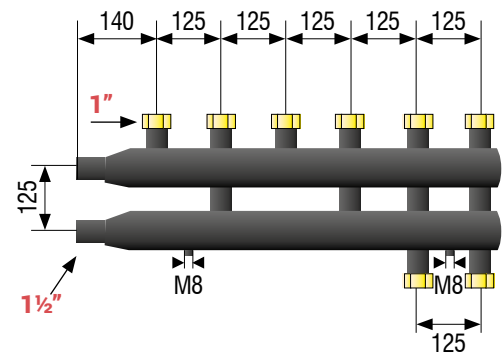


Insulating shell supplied

Art. E.700 – “FLUIDHUB” coplanar manifold for hydronic systems, in coated steel with outlets distance 125 mm., suitable for pumps groups DN 20. Equipped with connection (nut M8) for fixing bracket. Includes insulating shell.

Main connections \varnothing : 1 1/2" M. flat seat with centre-to-centre distance 125 mm.
Deviations connections \varnothing : 1" F. swivel – connection for shelf fixing.

Item code	Configuration	N° of circuits	\varnothing Deviations connection
E.700.02	A	2	1" F. swivel
E.700.53	B	3 (2+1)	1" F. swivel
E.700.03	C	3	1" F. swivel
E.700.54	D	4 (3+1)	1" F. swivel
E.700.04	E	4	1" F. swivel



Scheme of use (example)

Manifolds for hydronic systems for pump groups DN 25



Configuration A



Configuration B



Configuration C



Configuration D



Configuration E

Art. E.704

They allow for easy assembly of the hydronic system. The various configurations provide compact dimensions, ideally suited for the use of pump groups, reducing installation time.

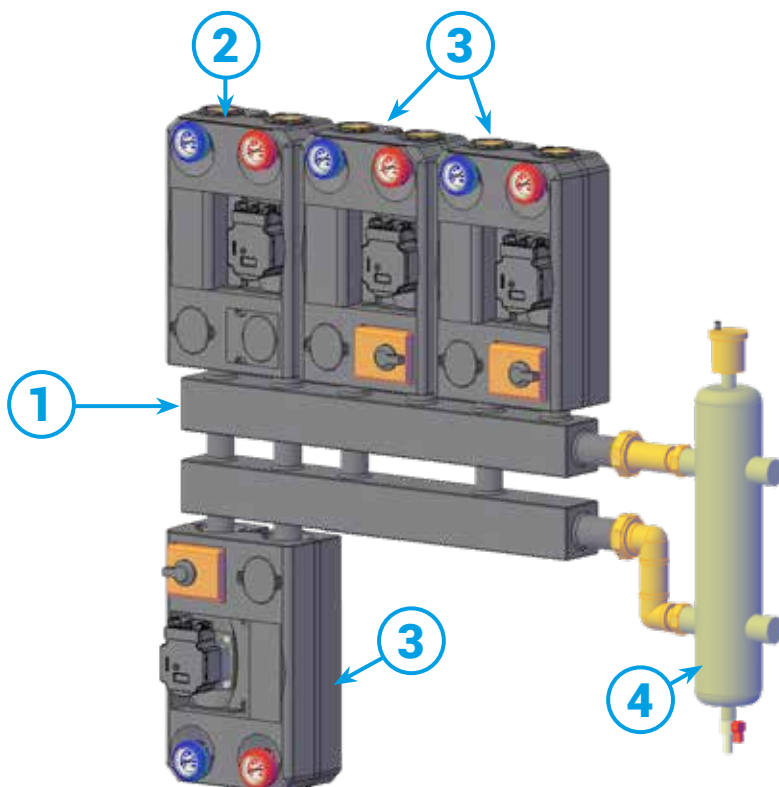
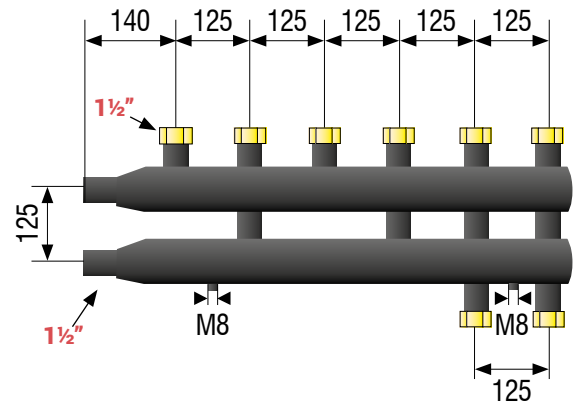


Insulating shell supplied

Art. E.704 - "FLUIDHUB" coplanar manifold for hydronic systems, in coated steel with outlets distance 125 mm., suitable for pumps groups DN 25. Equipped with connection (nut M8) for fixing brackets. Includes insulating shell.

Main connections Ø: 1 1/2" M. Flat seat with centre-to-centre distance 125 mm.
Deviations connections Ø: 1" F. swivel – connection for shelf fixing.

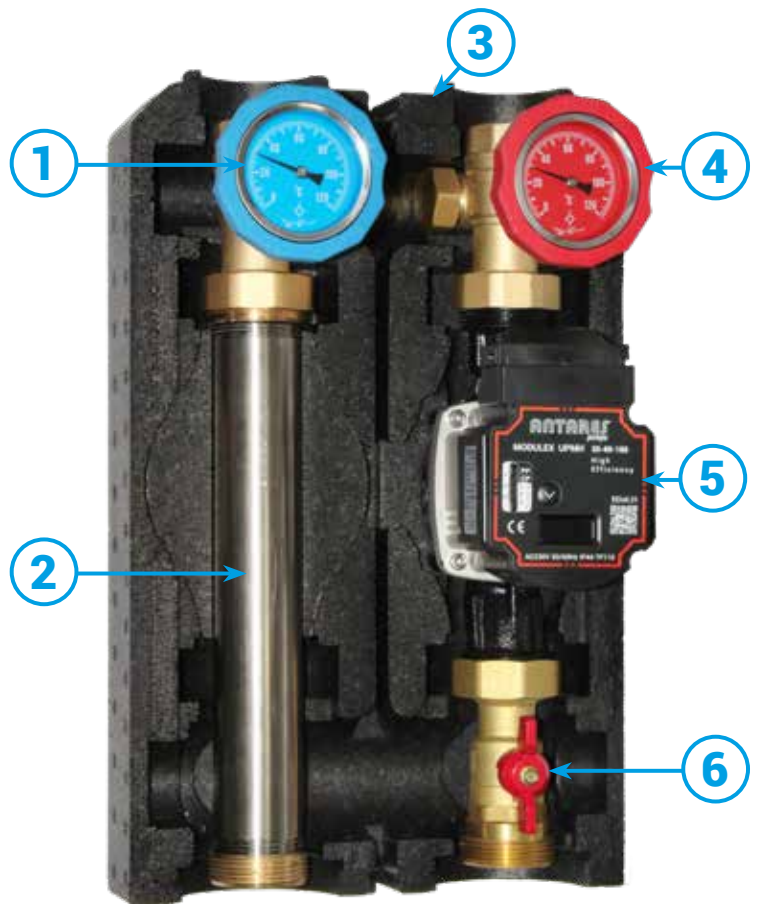
Item code	Configuration	N° of circuits	Ø Deviations connection
E.704.22	A	2	1" 1/2 F. swivel
E.704.93	B	3 (2+1)	1" 1/2 F. swivel
E.704.23	C	3	1" 1/2 F. swivel
E.704.94	D	4 (3+1)	1" 1/2 F. swivel
E.704.24	E	4	1" 1/2 F. swivel



REFERENCES:

- ① Art. E.704.94 – Coplanar manifold with 4 circuits (Configuration D) on page 5.
- ② Art. E.621.02 – Pump group with circulator pump on page 6.
- ③ Art. E.624.12 – Pump group with Motorized mixing valve circulator pump on page 8.
- ④ Art E.69x.xx – Various capacity hydraulic separator on page 20.

Pump groups DN 25



Art. E.621

COMPONENTS

- ① Brass blue shut-off valve with thermometer, with or without side connection.
- ② Stainless steel alignment spacer.
- ③ Insulating shell in polypropylene.
- ④ Brass red shut-off valve with thermometer with unidirectional valve, with or without side connections.
- ⑤ High-efficiency circulating pump with PWM (for performance data, see pump chapter on page 25).
- ⑥ Shut-off valve for an easy replacement of the pump.

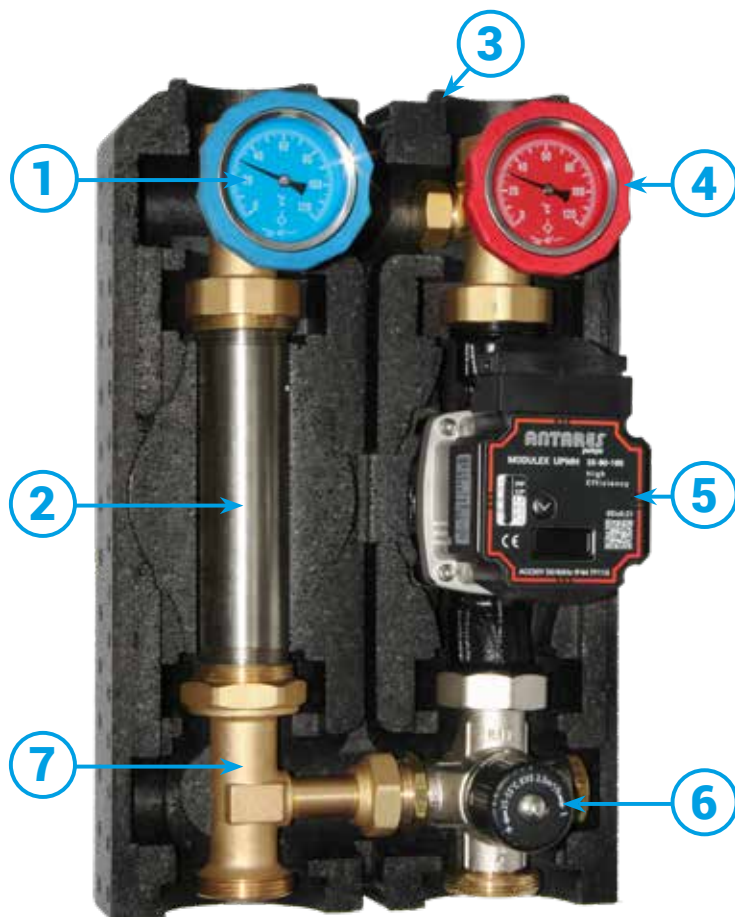
For provision for installation of the energy meter please see optional art. E.605.25 on page 22

Art. E.621 – Reversible pump group DN 25, consisting of 2 ball valves with thermometer and unidirectional valve, ball valve for possible replacement on the circulator, alignment spacer and insulating shell. In brass and stainless steel AISI 304.

Available with or without ball valve side connections, for safety probes or thermostats or for bypass valve insertion, to avoid over-pressuring the pump. Available without pump or with various high-efficiency pumps, self-regulating, with 6, 8, 10 mt. head. System side connections: 1" F. Manifold side connections: 1 1/2" M.

Version without side connections		Version with side connections	
Item code	Pump	Item code	Pump
E.621.01	Without pump	E.621.11	Without pump
E.621.02	6 mt. - P.110.68	E.621.12	6 mt. - P.110.68
E.621.03	8 mt. - P.110.88	E.621.13	8 mt. - P.110.88
E.621.05	10 mt. - P.066.52	E.621.15	10 mt. - P.066.52

Temperature lowering and control



Art. E.623

COMPONENTS

- ① Brass blue shut-off valve with thermometer, with or without side connection.
- ② Stainless steel alignment spacer.
- ③ Insulating shell in polypropylene.
- ④ Brass red shut-off valve with thermometer with unidirectional valve, with or without side connections.
- ⑤ High-efficiency circulating pump with PWM (for performance data, see pump chapter on page 25).
- ⑥ Brass 3-way thermostatic mixing valve.
- ⑦ "T" extension joint.

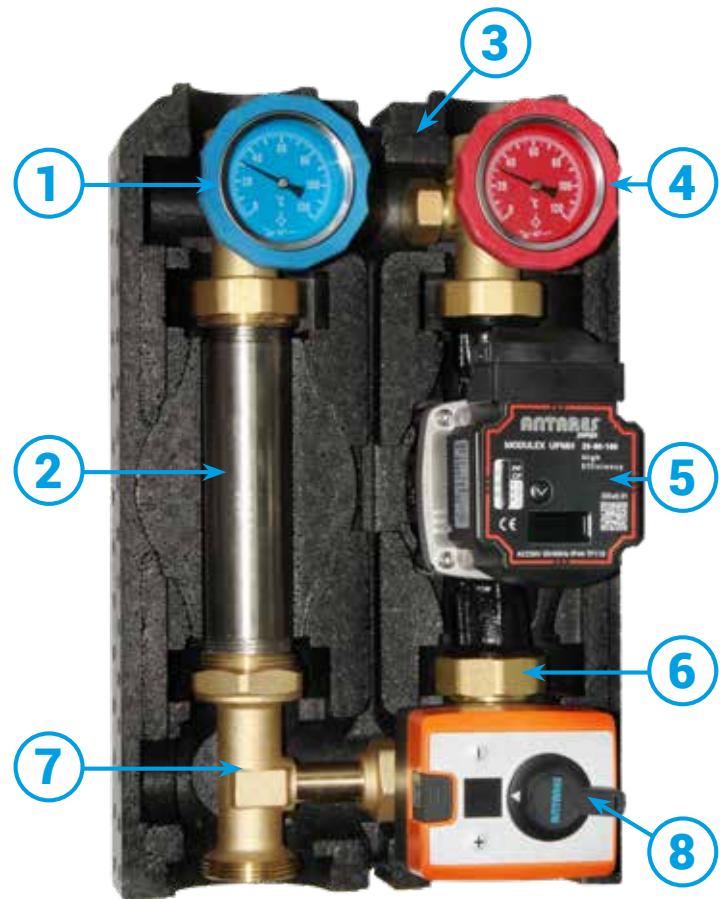
For provision for installation of the energy meter please see optional art. E.605.25 on page 22

Art. E.623 – Reversible pump group DN 25 for temperature lowering and control at fixed point: 25° - 55°, consisting of 2 ball valves with thermometer and unidirectional valve, 3-way thermostatic valve, alignment spacer and insulating shell. In brass and stainless steel AISI 304.

Available with or without ball valve side connections, for safety probes or thermostats or for bypass valve insertion, to avoid over-pressuring the pump. Available without pump or with various high-efficiency pumps, self-regulating, with 6, 8, 10 mt. head. Thermostatic valve Kv: 3,5. System side connections: 1" F. Manifold side connections: 1 1/2" M.

Version without side connections		Version with side connections	
Item code	Pump	Item code	Pump
E.623.01	Without pump	E.623.11	Without pump
E.623.02	6 mt. - P.110.68	E.623.12	6 mt. - P.110.68
E.623.03	8 mt. - P.110.88	E.623.13	8 mt. - P.110.88
E.623.05	10 mt. - P.066.52	E.623.15	10 mt. - P.066.52

Temperature lowering and control



Art. E.624

COMPONENTS

- ① Brass blue shut-off valve with thermometer, with side connection.
- ② Stainless steel alignment spacer.
- ③ Insulating shell in polypropylene.
- ④ Brass red shut-off valve with thermometer and check valve, with or without side connection.
- ⑤ High-efficiency circulating pump with PWM (for performance data, see pump chapter on page 25).
- ⑥ 3-way mixing valve in brass.
- ⑦ "T" extension joint.
- ⑧ Mixing valve actuator, with or without thermoregulator.

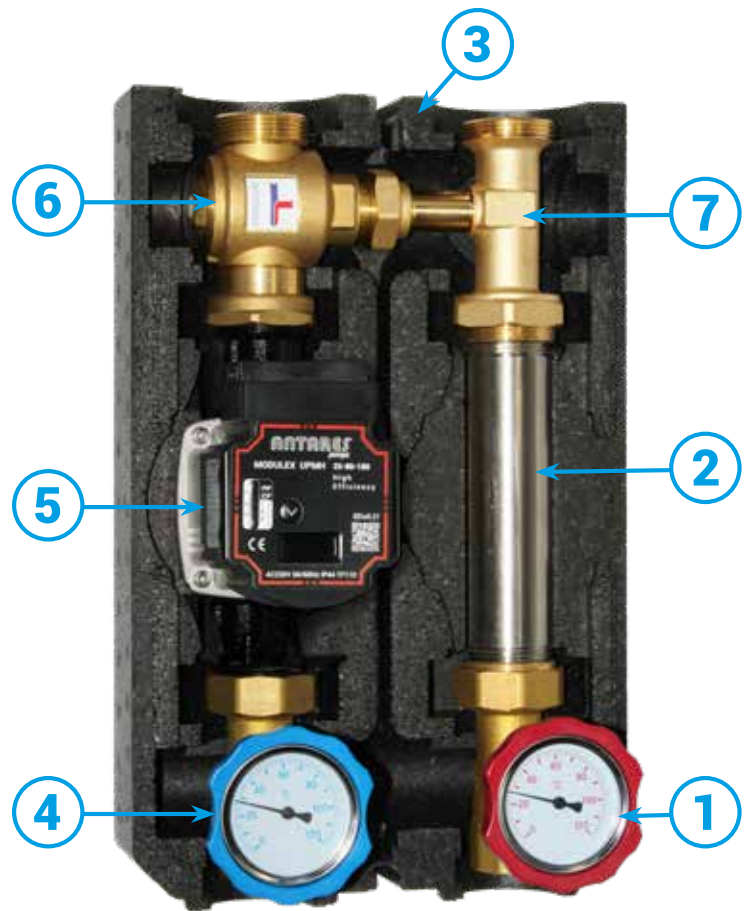
For provision for installation of the energy meter please see optional art. E.605.25 on page 22.

Art. E.624 – Reversible pump group DN 25 for temperature lowering and control, consisting of 2 ball valves with thermometer and unidirectional valve, 3-way motorisable mixing valve with bypass, alignment spacer and insulating shell. In brass and stainless steel AISI 304.

With ball valve side connections, for safety probes or thermostats or for the bypass valve insertion, to avoid over-pressuring the pump. For the simultaneous use of overpressuring bypass valve and temperature probe, use accessory E.611.10 on page 23. Available without pump or with various high-efficiency, self-regulating pumps, with 6, 8, 10 mt. head. Mixing valve Kv: 10. System side connections: 1" F. Manifold side connections: 1½"M.

Motorizable		Motorized: Open – Close with Art. T.106 on page 23		Motorized with integrated thermoregulator Art. T.107 on page 23	
Item code	Pump	Item code	Pump	Item code	Pump
E.624.11	Without pump	E.624.21	Without pump	E.624.31	Without pump
E.624.12	6 mt. - P.110.68	E.624.22	6 mt. - P.110.68	E.624.32	6 mt. - P.110.68
E.624.13	8 mt. - P.110.88	E.624.23	8 mt. - P.110.88	E.624.33	8 mt. - P.110.88
E.624.15	10 mt. - P.066.52	E.624.25	10 mt. - P.066.52	E.624.35	10 mt. - P.066.52

Thermostatic anti-condensation for biomasses



Art. E.627

COMPONENTS

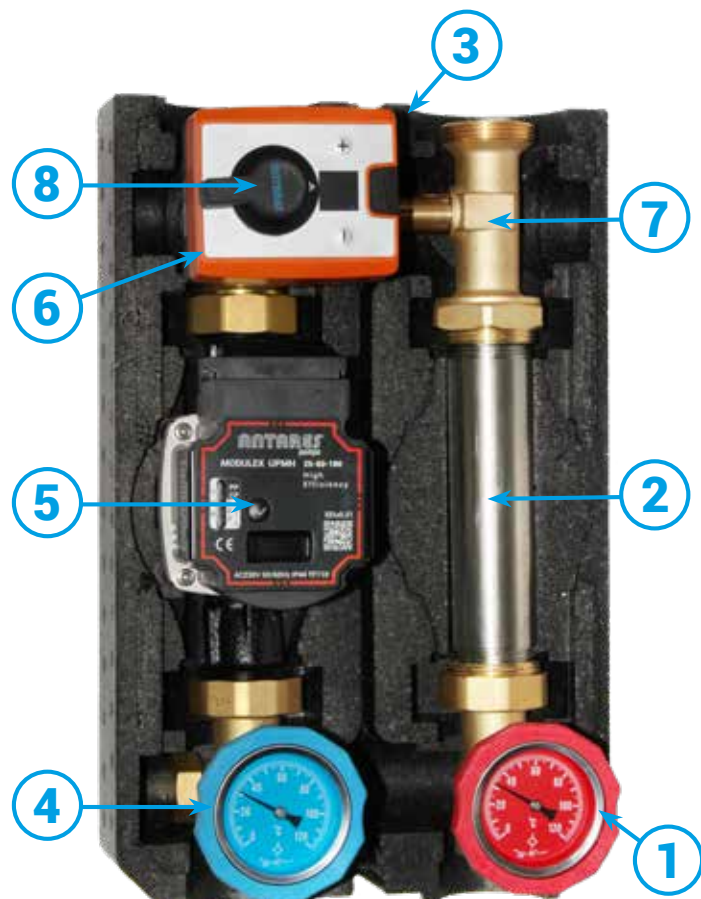
- ① Brass red shut-off valve with thermometer, side connection, and check valve.
- ② Stainless steel alignment spacer.
- ③ Insulating shell in polypropylene.
- ④ Brass blue shut-off valve with thermometer and side connection.
- ⑤ High-efficiency circulating pump with PWM (for performance data, see pump chapter on page 25).
- ⑥ 3-way brass thermostatic mixing valve.
- ⑦ "T" extension joint.

Art. E.627 - Reversible pump group DN 25 for heat generators powered by solid fuels, consisting of 2 ball valves with thermometer and unidirectional valve, 3-way thermostatic bypass valve, alignment spacer and insulating shell. In brass and stainless steel AISI 304.

With ball valve side connections, for safety probes and thermostats. Available without pump or with various high efficiency modulating pumps, with 8 mt head. Thermostatic valve Kv: 9. Generator side connections: 1" F. Manifold side connections: 1 1/2" M.

Thermostatic anti-condensation valve 45°		Thermostatic anti-condensation valve 60°		Thermostatic anti-condensation valve 70°	
Item code	Pump	Item code	Pump	Item code	Pump
E.627.44	Without pump	E.627.61	Without pump	E.627.71	Without pump
E.627.45	8 mt. - P.110.88	E.627.60	8 mt. - P.110.88	E.627.70	8 mt. - P.110.88

Motorized mixing anti-condensation valve



Art. E.628

COMPONENTS

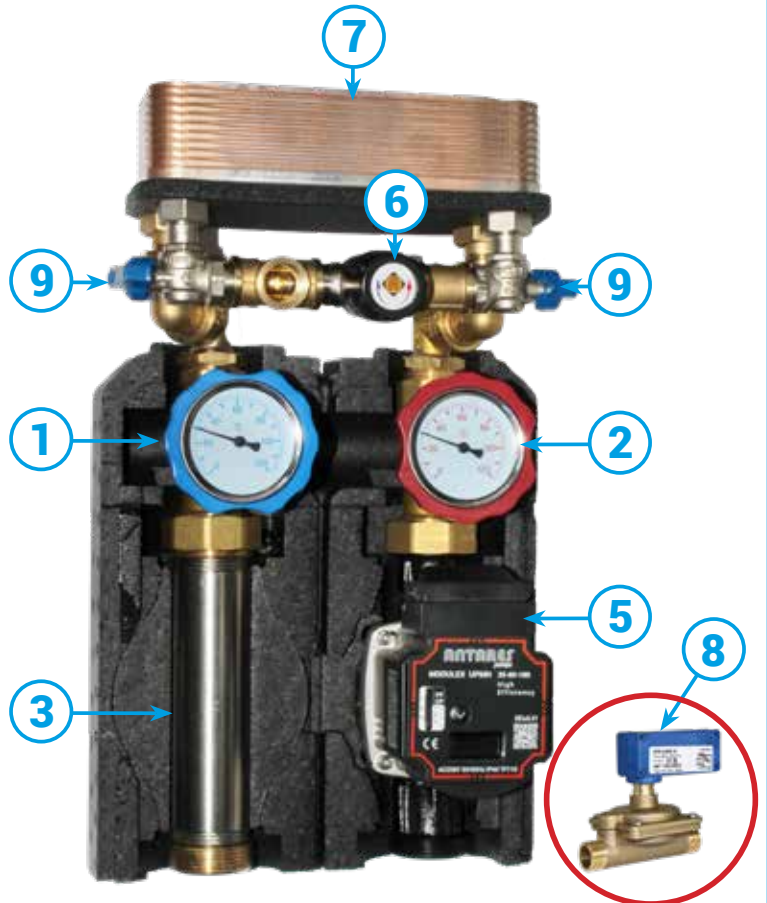
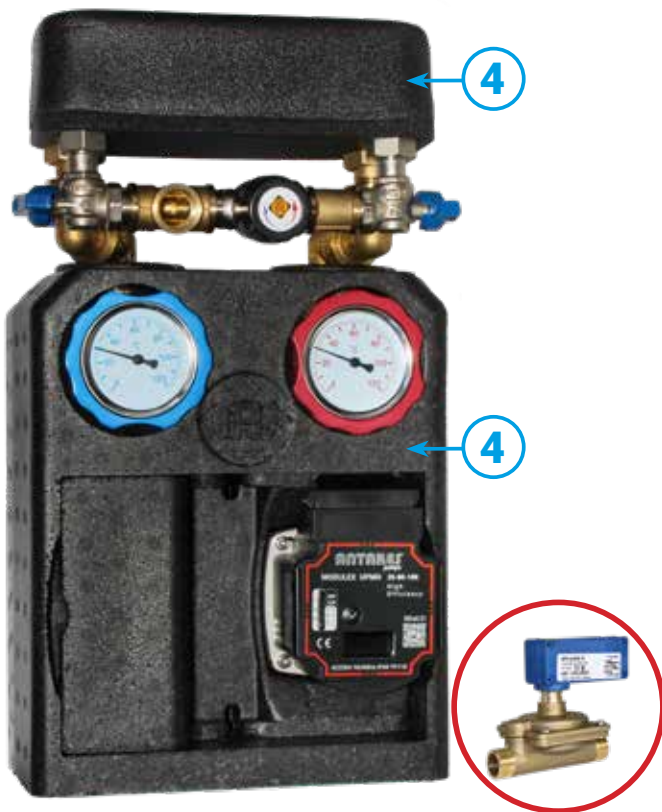
- ① Brass red shut-off valve with thermometer and side connection.
- ② Stainless steel alignment spacer.
- ③ Insulating shell in polypropylene.
- ④ Brass blue shut-off valve with thermometer, check valve, and side connection.
- ⑤ High-efficiency circulation pump with PWM (for performance data, see pump chapter on page 25).
- ⑥ 3-way brass mixing valve.
- ⑦ "T" extension joint.
- ⑧ Actuator, available with or without integrated thermoregulator.

Art. E.628 – Reversible anti-condensation motorisable pump group DN 25 for heat generators powered by solid fuel, consisting of 2 ball valves with thermometer and unidirectional valve, 3-way motorisable mixing valve with bypass, alignment spacer and insulating shell. In brass and stainless steel AISI 304.

With ball valve side connections, for safety probes or thermostat. For the simultaneous use of safety thermostat and temperature probe, use accessory E.611.10 on page 23. Available without pump or with high-efficiency modulating pump, 8mt head. Mixing valve Kv: 10. System side connections: 1" F. Manifold side connections: 1 1/2" M.

Motorizable		Motorized: Open – Close with Art. T.106 on page 23		Motorized with integrated thermoregulator Art. T.107 on page 23	
Item code	Pump	Item code	Pump	Item code	Pump
E.628.11	Without pump	E.628.21	Without pump	E.628.31	Without pump
E.628.13	8 mt. - P.110.88	E.628.23	8 mt. - P.110.88	E.628.33	8 mt. - P.110.88

Supply of domestic hot water



Art. E.640

COMPONENTS

- ① Brass blue shut-off valve with thermometer and check valve.
- ② Brass red shut-off valve with thermometer.
- ③ Stainless steel alignment spacer.
- ④ Insulating shell in polypropylene.
- ⑤ High-efficiency circulation pump with PWM, Art. P110.88 (for performance data, see the pumps chapter on page 25).
- ⑥ Thermostatic mixer valve for temperature regulation of hot domestic water.
- ⑦ Heat exchanger.
- ⑧ Flow switch supplied separately, to be installed on the supply pipe: 1/2" M x 1/2" M.
- ⑨ Shut-off valves on the domestic water side of the heat exchanger.

The flow switch installed on the domestic hot water circuit allows other circuits to be bypassed, prioritizing domestic hot water production.

Art. E.640 – Pre-assembled reversible pump group DN 25 for the supply of instant hot domestic water, complete of: flow sensor for the automatic start-up of the pump, brazed plates heat exchanger as stated in the chart, high efficiency circulating pump, ball valve with thermometer and check valve, insulating shell.

Available with or without mixing thermostatic 3-way valve on domestic side. Connections: manifold side 1 1/2" M. distance 125 - max pressure 10 bar. Sanitary circuit connections 3/4" F.

Data supplied with: **Primary Circuit: 80/60°C - Secondary Circuit: 15/50°C**

Without thermostatic valve					With thermostatic valve for domestic hot water control				
Item code	Flow rate l/min.	Absorption KW	Exchanger type	N° of plates	Item code	Flow rate l/min.	Absorption KW	Exchanger type	N° of plates
E.640.11	16	35	S.004.74	14	E.640.21	16	35	S.004.74	14
E.640.12	20	50	S.004.70	20	E.640.22	20	50	S.004.70	20

Hydronic systems manifolds for pump groups DN 32



Configuration A



Configuration B



Configuration C



Configuration D



Configuration E

Art. E.705

They allow for easy assembly of the hydronic system. The various configurations provide compact dimensions, ideally suited for the use of pump groups, reducing installation time.



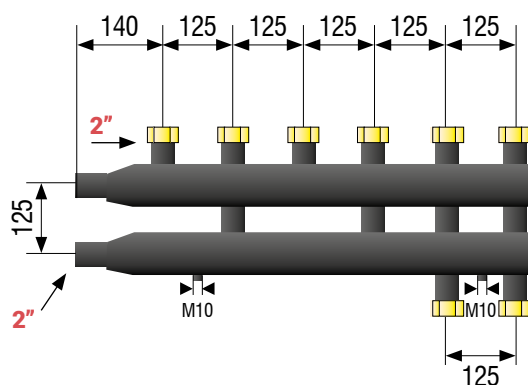
Insulating shell supplied

Art. E.705 – “FLUIDHUB” coplanar manifold for thermal systems, in coated steel with outlets distance 125 mm., suitable for pump groups DN 32. Equipped with connection (nut M10) for fixing brackets. Complete with insulating shell.

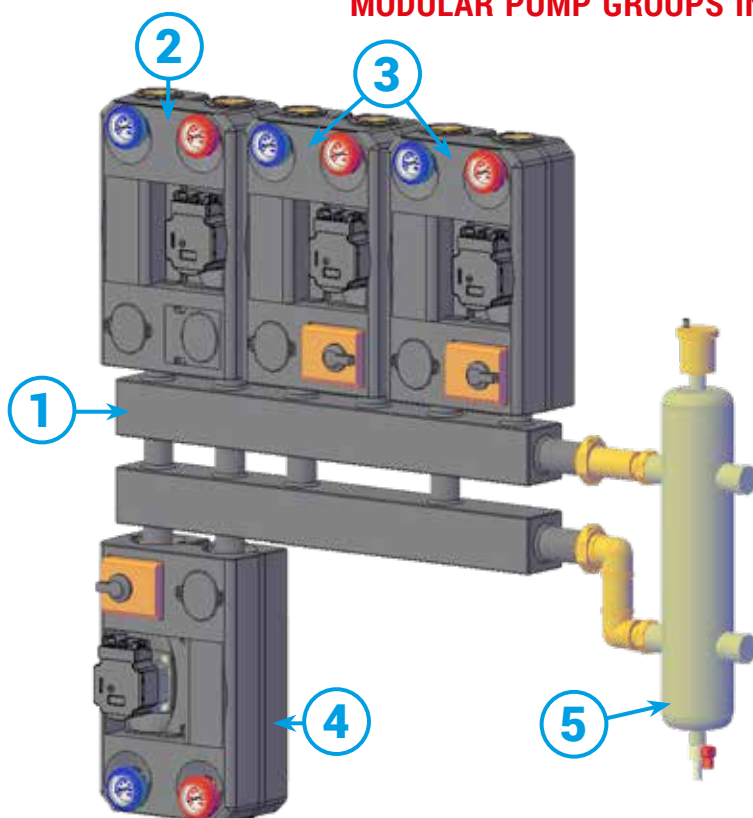
Main connections Ø: 2" M flat with distance 125 mm.

Deviations connections Ø: 2" F. swivel. Connection for shelf fixing.

Item code	Configuration	N° di circuits	Ø Outlets connections
E.705.22	A	2	2" F. swivel
E.705.93	B	3 (2+1)	2" F. swivel
E.705.23	C	3	2" F. swivel
E.705.94	D	4 (3+1)	2" F. swivel
E.705.24	E	4	2" F. swivel



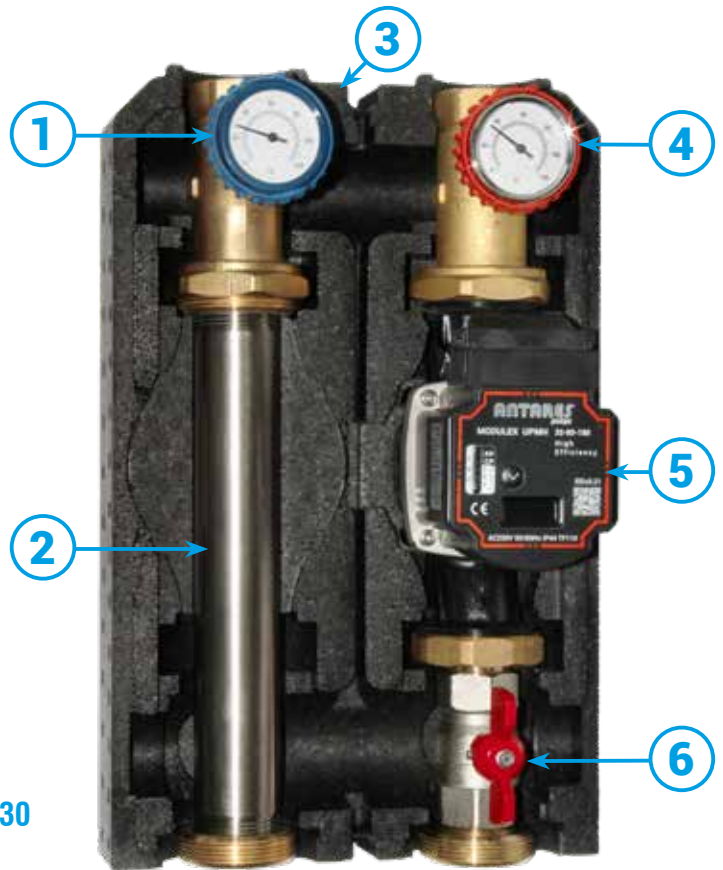
MODULAR PUMP GROUPS INSTALLATION EXAMPLES



REFERENCE EXPLANATORY COMPONENTS:

- ① Hydronic system manifold Art. E.705.94
- ② Pump group Art. E.630.xx.
- ③ Temperature lowering and control pump group Art. E.631.xx.
- ④ Motorisable anti-condensation pump groups for biomasses Art. E.634.xx.
- ⑤ Hydraulic separator Art. E.69x.xx.

Pump groups DN 32



Art. E.630

COMPONENTS

- ① Brass blue shut-off valve with thermometer.
- ② Stainless steel alignment spacer.
- ③ Insulating shell in polypropylene.
- ④ Brass red shut-off valve with thermometer with unidirectional valve.
- ⑤ High efficiency circulating pump with PWM (for performance data please see circulators chapter on page 25).
- ⑥ Shut-off valve for an easy replacement of the pump.

Art. E. 630 – Reversible pump group DN 32, consisting of 2 ball valves with thermometer and unidirectional valve, ball valves for possible replacement of the circulator, alignment spacer and insulating shell. In brass and stainless steel AISI 304.

Available without pump or with high efficiency, self-regulating pump, with 8, 10 mt. head. System side connections: 1 1/4" F. Manifold side connections: 2" M.

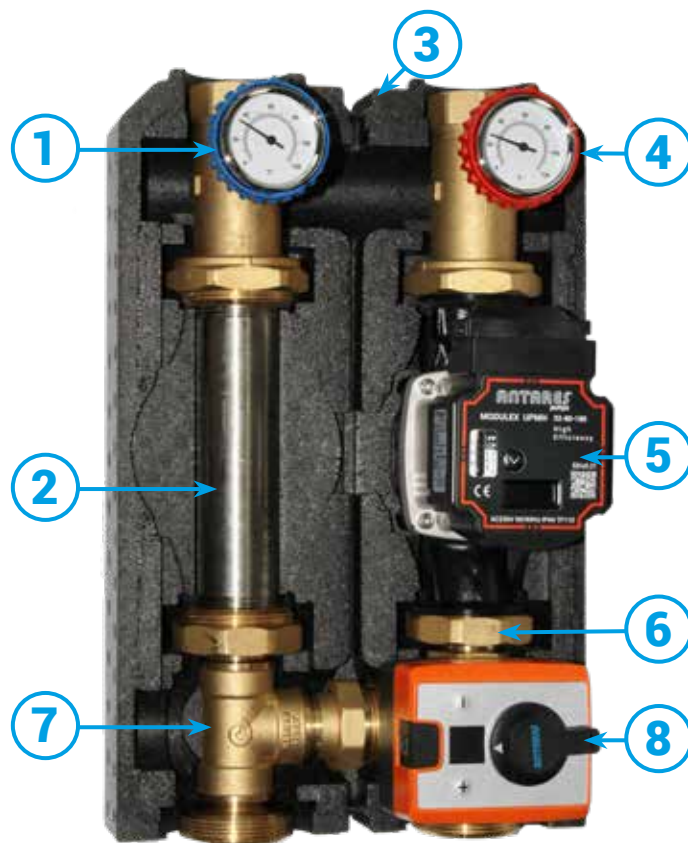
Item code	Pump
E.630.01	Without pump
E.630.03	8 mt. - P.110.82
E.630.05	10 mt. - P.066.70



TECHNICAL SUPPORT

Our technical office is at your disposal for any additional information and to assist you with your choice

Temperature lowering and/or control



Art. E.631

COMPONENTS

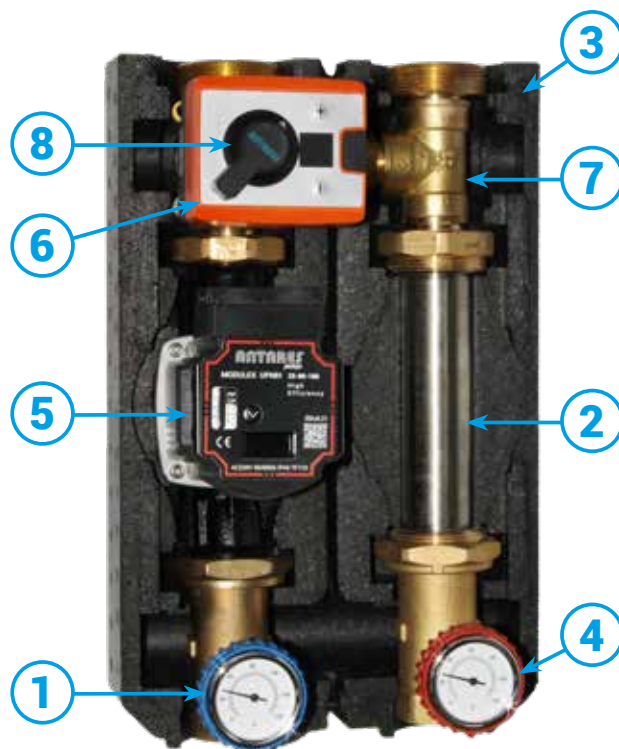
- ① Brass blue shut-off valve with thermometer
- ② Stainless steel alignment spacer.
- ③ Insulating shell in polypropylene.
- ④ Brass red shut-off valve with thermometer and unidirectional valve.
- ⑤ High efficiency circulating pump with PWM (for performance data please see circulators chapter on page 25)
- ⑥ Brass 3-way mixing valve.
- ⑦ "T" extension joint.
- ⑧ Mixing valve actuator

Art. E.631 – Reversible pump groups DN 32 of temperature lowering and control, motorisable, consisting of 2 ball valves with thermometer and unidirectional valve, motorisable 3-way mixing valve, alignment spacer and insulating shel. In brass and stainless steel AISI 304.

For safety probes or thermostats use accessory E.611.14 on page 17. Available without pump or with various high energy efficiency self-regulating pumps, with 8, 10 mt head. Mixing valve Kv: 18
System side connections: 1 1/4" F. Manifold side connections: 2" M.

Motorizable		Motorized: Open-Close with Art. T.106 on page 23		Motorized with integrated thermoregulator Art. T.107 on page 23	
Item code	Pump	Item code	Pump	Item code	Pump
E.631.11	Without pump	E.631.21	Without pump	E.631.31	Without pump
E.631.13	8 mt. - P110.82	E.631.23	8 mt. - P110.82	E.631.33	8 mt. - P110.82
E.631.15	10 mt. - P066.70	E.631.25	10 mt. - P066.70	E.631.35	10 mt. - P066.70

Anti-condensation with Motorized mixing valve



Art. E.634

COMPONENTS

- ① Brass blue shut-off valve with thermometer.
- ② Stainless steel alignment spacer.
- ③ Insulating shell in polypropylene.
- ④ Brass red shut-off valve with thermometer and unidirectional valve.

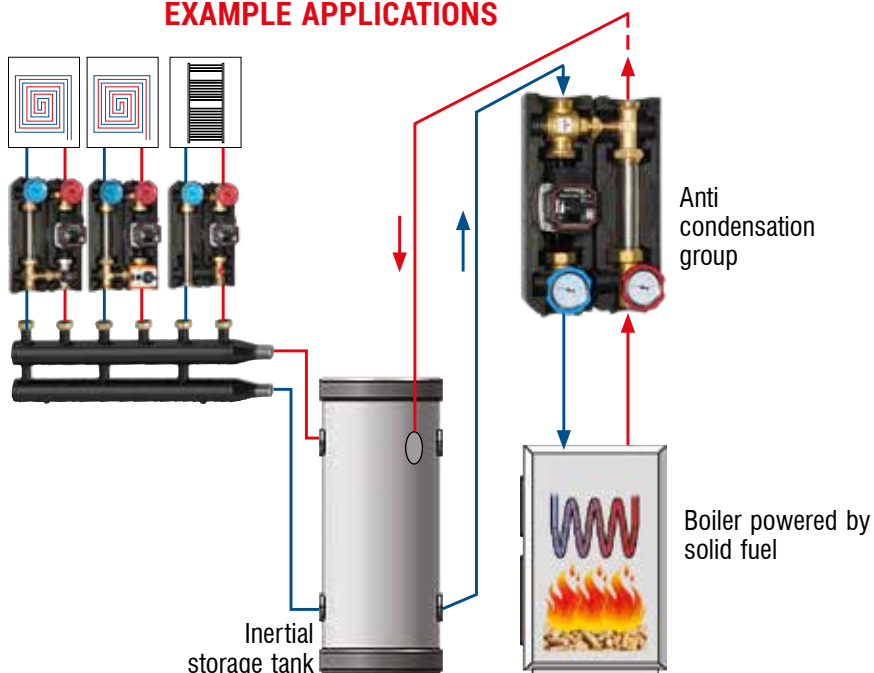
- ⑤ High efficiency circulating pump with PWM (for performance data please see circulators chapter on page 25).
- ⑥ 3-way mixing valve in brass.
- ⑦ "T" extension joint.
- ⑧ Mixing valves actuator.

Art. E.634 – Anti-condensation motorisable reversible pump group DN 32 for heat generators powered by solid fuel, consisting of 2 ball valves with thermometer and unidirectional valve, 3-way motorisable mixing valve, alignment spacer and insulating shell. In brass and stainless steel AISI 304.

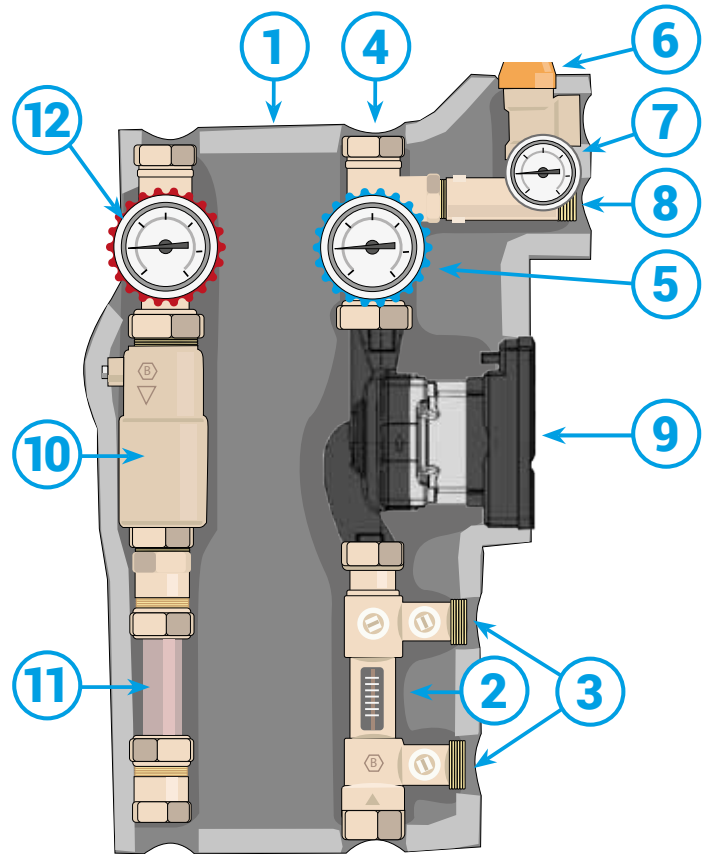
For the use of temperature probe use accessory E.611.14 on page 23. Available without pump or with modulating, high-efficiency pump with 8 mt. head. Mixing valve Kv: 18 System side connections: 1 1/4" F. Manifold side connections: 2" M.

Motorizable			
Item code		Pump	
E.634.11		Without pump	
E.634.13		8 mt. P.110.82	
Motorized ON/OFF with Art. T.106 on page 23		Motorized with integrated thermoregulator Art. T.107 on page 23	
Item code	Pump	Item code	Pump
E.634.21	Without pump	E.634.31	Without pump
E.634.23	8 mt. - P.110.82	E.634.33	8 mt. - P.110.82

EXAMPLE APPLICATIONS



**Supply
and return**



Art. E.651

Art. E.651 composed of:

- ① EPP thermal insulation.
- ② Flowmeter with manual flow control.
- ③ Filling/drain valve.
- ④ Single-block shut-off and check valves.
- ⑤ Shut-off valve on return line with blue handle and integrated thermometer (0-120°C).
- ⑥ Safety valve for solar thermal systems pre-calibrated at 6 bar.
- ⑦ Manometer (0-10 bar).
- ⑧ Expansion tank connection.
- ⑨ “Modulex-Solar” high-energy efficiency circulating pump – with PWM 1-2 – Head 8 mt - Art. P.023.80.
- ⑩ Manual air vent.
- ⑪ Alignment spacer.
- ⑫ Shut-off valve on supply line with red handle and built-in thermometer (0–120°C).

Art. E.651 – Circulation group for solar powered systems, for supply and return, with insulating shell and wall fixing brackets. Composed as specifically indicated above.

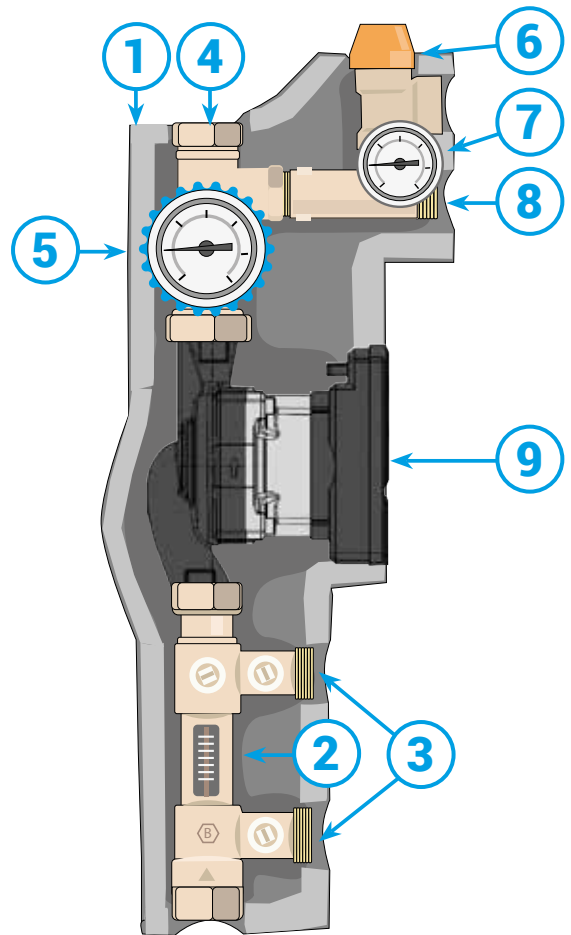
Connections 3/4”M. X 3/4”F – For copper pipe connections, please see specific union fittings on page 62-63 (**ANTARES Water catalogue**).

Range contr. of flow rate	2 - 12 lt./min.	8 - 33 lt./min.
Item code	E.651.15	E.651.35

**Return
only**



Art. E.654



Art. E.654 composed of:

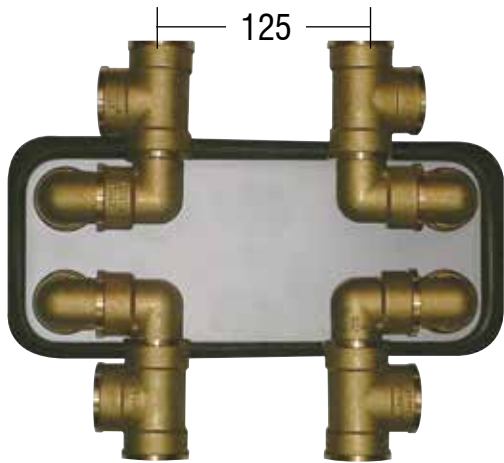
- ① EPP thermal insulation.
- ② Flowmeter with manual flow control.
- ③ Filling/drain tap.
- ④ Check valves.
- ⑤ Shut-off valve with blue handle and integrated thermometer (0-120°C).
- ⑥ Safety valves for solar powered systems pre-calibrated at 6 bar.
- ⑦ Manometer (0-10 bar).
- ⑧ Expansion tank connection.
- ⑨ "Modulex Solar" high-energy efficiency circulating pump with PWM 1-2, Head: 8 mt. - Art. P023.80.

Art. E.654 – Circulation group for solar powered systems for return only with insulating shell and wall fixing brackets. Composed as specifically indicated above.

Connections $\frac{3}{4}$ " M. x $\frac{3}{4}$ " F. – For copper pipe connections, please see specific union fittings on page 62-63 (**ANTARES Water catalogue**).

Range contr. of flow rate	2 - 12 lt./min.	8 - 33 lt./min.
Item code	E.654.15	E.654.35

Thermal exchange groups and circuit separation



Art. E.629

Art. E.629 - Heat exchange module, also suitable for hydraulic circuit separation.

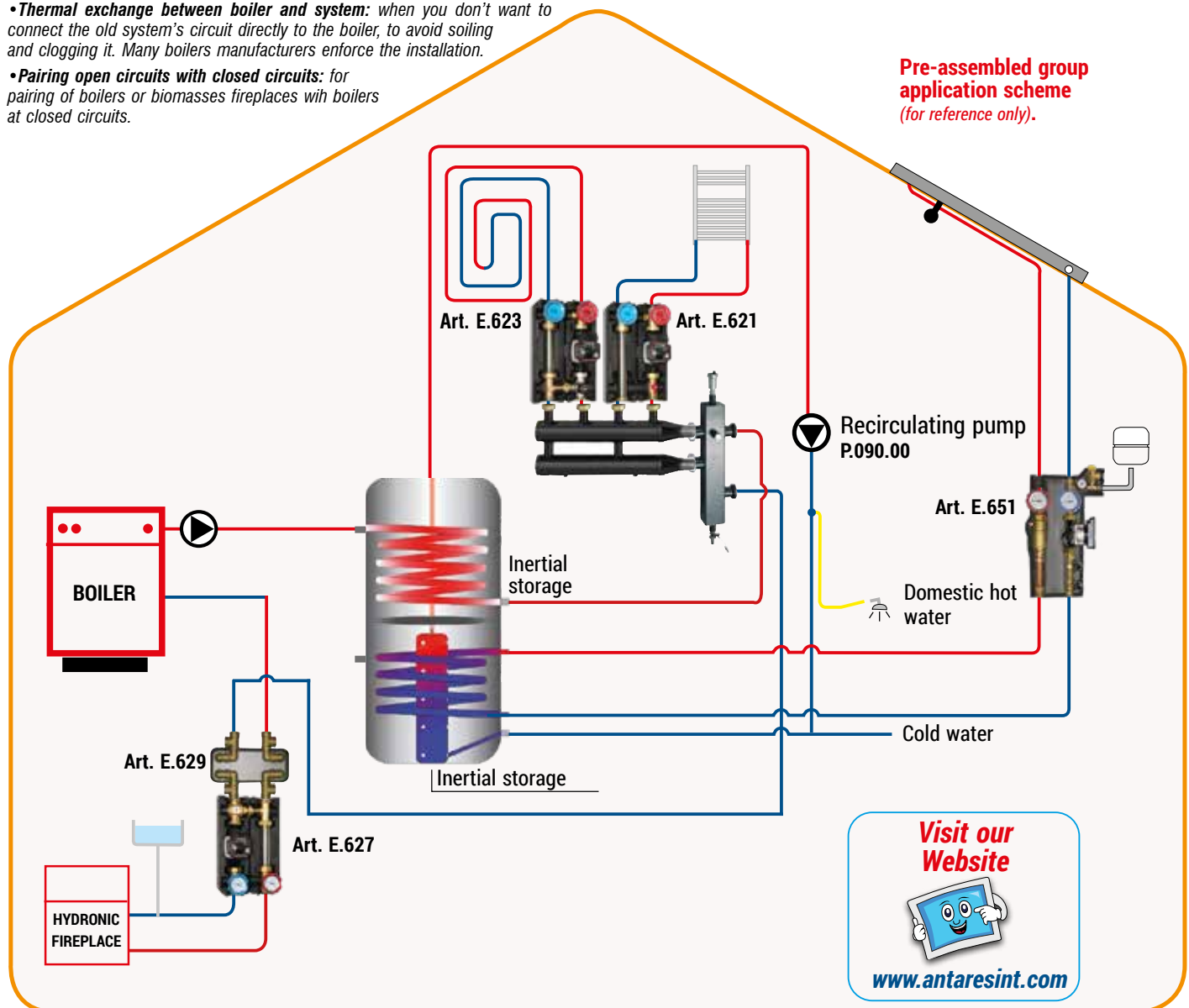
Made for direct connection with anti-condensation groups for biomasses heat generators – Art. E.627 – and for temperature lowering and mixing units for radiant systems – Art. E.623. It is composed of a steel plate exchanger in the defined abilities, pre-assembled necessary connections' fittings and insulating shell. Made for the connection of various items by the four "T" 1" F. fittings. Connections distance: 125 mm.

Item code	For power up to KW	Exchanger type
E.629.25	25 KW	S.009.20*
E.629.35	35 KW	S.009.30*
E.629.45	45 KW	S.009.40*

*For technical data of heat exchangers please see item S.009 on the "exchangers" booklet or here on page 26.

Designed for:

- **Thermal exchange between boiler and system:** when you don't want to connect the old system's circuit directly to the boiler, to avoid soiling and clogging it. Many boilers manufacturers enforce the installation.
- **Pairing open circuits with closed circuits:** for pairing of boilers or biomasses fireplaces with boilers at closed circuits.



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Old system decoupler separator with new boiler

For the installation of new boilers on old systems. Over time, dirt originated from crystallisation of mineral in the water settles inside the systems. To avoid the mud to damage the new boiler, the installation of a circuit separator of the old system with that of the new boiler is enforced, through the addition of an adequate heat exchanger.

ANTARES, to help this operation, realised, in the form of a small cabinet, a "SEPACIR" separator especially made extremely compact to be installed under the wall-hung boilers, in two versions:

- **Complete** with expansion tank (for each model's dimension, please see the dimensions below).
- **Lowered:** without the expansion tank to be installed somewhere else, above the boiler with apposite piping or elsewhere. (dimensions: H = 604 mm – L = 379 mm).

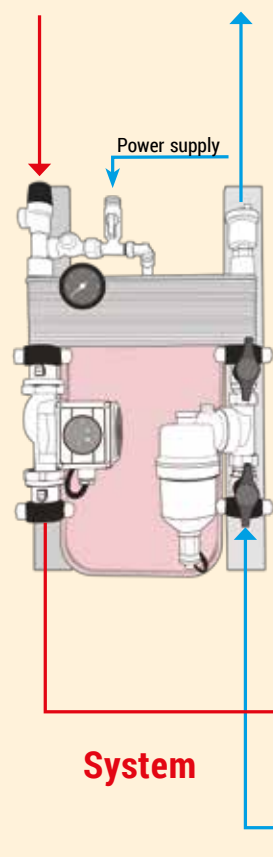
As the product is very compact, it can installed elsewhere.



Art. E.670.0-



The old system contains dirt?



Install a circuit separator ANTARES model "SEPACIR"

Art. E.670 – Circuit decoupler separator "SEPACIR" with covering. Connections: 3/4" for heating and 1/2" for circuit power supply.

Composed of the following components:

- Steel plates heat exchanger;
- Circulator 6 mt., EU energy label A;
- Expansion tank;
- Safety valve 3 bar;
- Capillary manometer;
- Supply tap;
- 4 ball valves;
- Optional dirt separator;
- Automatic deaerator;
- 4 steel flexible hoses 3/4" expandible;
- 1 steel flexible hose 1/2" expandible;

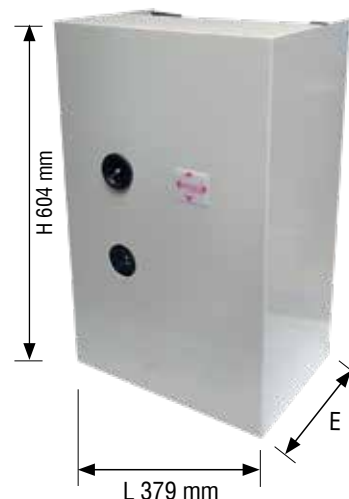
Model with expansion tank included

Without dirt separator				Without dirt separator			
Item code	Power KW	Tank lt.	Depth E	Item code	Power KW	Tank lt.	Depth E
E. 670.04	24	8	262 mm	E. 670.08	24	8	262 mm
E. 670.02	32	10	262 mm	E. 670.07	32	10	262 mm

Model lowered with external expansion tank supplied

Without dirt separator				Without dirt separator			
Item code	Power KW	Tank lt.	Depth E	Item code	Power KW	Tank lt.	Depth E
E. 670.34	24	8	164 mm	E. 670.57	24	8	164 mm
E. 670.52	32	10	164 mm	E. 670.58	32	10	164 mm

Dimensions



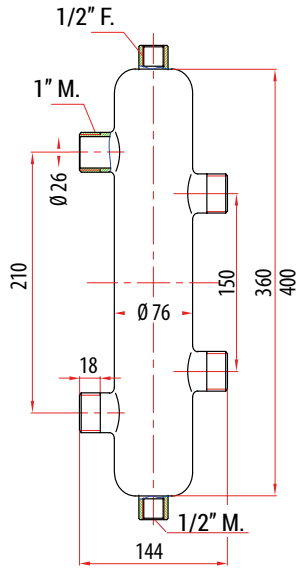
Hydraulic separators

Stainless steel hydraulic separators



DN 25

Art. E.690



Art. E.690 - - Hydraulic separator DN 25 in stainless steel AISI 304 L complete with thermal insulating shell, automatic deaerator with check-valve and mud draining tap. Flow rate max 3 m³/h – pressure max 10 bar.

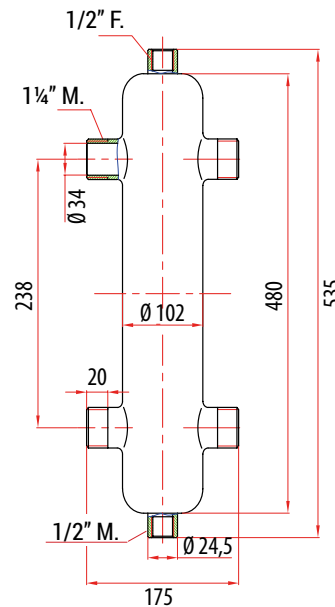
Complete with fixing brackets and plugs. With inner net to help de-aeration and dirt separation.

Item code	Primary circuit connections	Secondary circuit connections
E.690.10	1" M. flat seat	1" M. flat seat
E.690.14	1 1/4" M. flat seat	1 1/4" M. flat seat
E.690.12	1 1/2" M. flat seat	1 1/2" M. flat seat



DN 32

Art. E.691



Art. E.691 - Hydraulic separator DN 32 in stainless steel AISI 304 L complete with thermal insulating shell, automatic de-aerator with check valve and mud draining taps. Flow rate max. 6 m³/h – Pressure max. 10 bar.

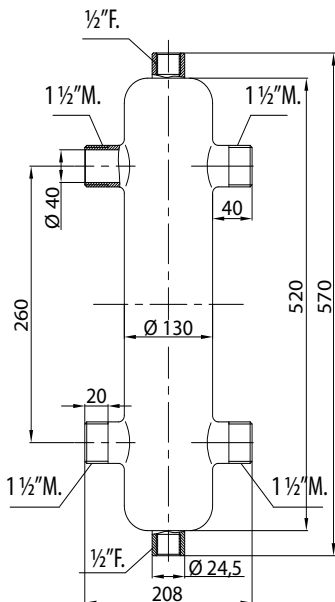
Complete with fixing brackets and plugs. With inner net to help de-aeration and dirt separation.

Item code	Primary circuit connections	Secondary circuit connections
E.691.14	1 1/4" M. flat seat	1 1/4" M. flat seat
E.691.13	1 1/2" M. flat seat	1 1/4" M. flat seat



DN 40

Art. E.692.00



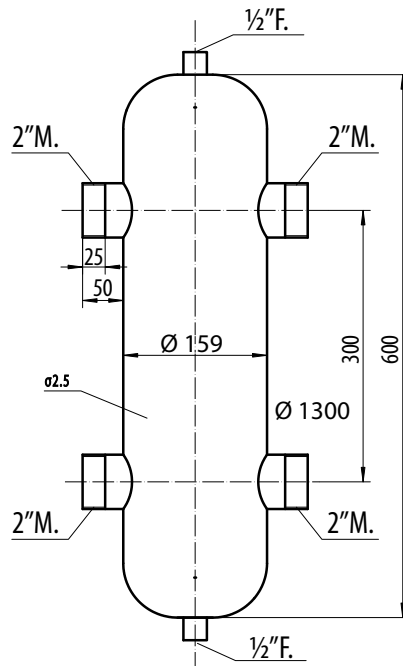
Art. E.692.00 - Hydraulic separator DN 40 in stainless steel AISI 304 L complete with thermal insulating shell, automatic de-aerator with check valve and mud draining tap. Flow rate max. 8 m³/h – Pressure max. 10 bar.

Complete with fixing brackets and plugs. With inner net to help de-aeration and dirt separation. Connections for primary and secondary circuit 1 1/2" M.

DN 50



Art. E.693.00



Art. E.693.00 – Hydraulic separator DN 50 in stainless steel AISI 304 L, complete with thermal insulating shell, automatic de-aerator with check valve and mud draining tap. Flow rate max. 12 m³/h – Pressue max. 10 bar.

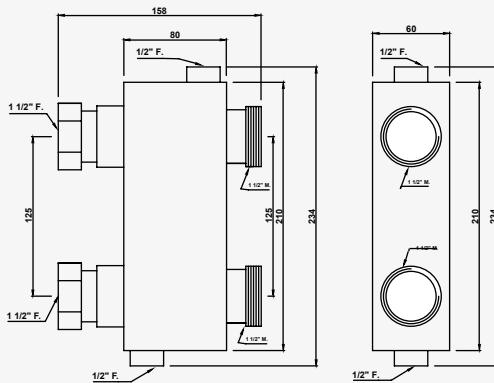
Complete with fixing brackets and plugs. With inner net to help de-aeration and dirt separation. Connections for primary and secondary circuit 2”M.

Steel hydraulic separators

DN 25



Art. E.602.15



Art. E.602.15 – Compact hydraulic separator DN 25, in painted steel, for pump groups and mixing groups, complete with thermal insulation in EPP. In the upper part, complete with connection 1/2” for possible temperature probe or vent, and, in the lower part, connection 1/2” for draining. Compatible with manifold art. E.600 and Art. E.700, max. two circuits – Pressure max.: 10 bar.

Connections: 1 1/2”F. swivel x 1 1/2”F. swivel on one side.
Connections: 1 1/2”M. flat seat x 1 1/2”M. flat seat on other side.
Flow rate: 1.5 m³/h - Conn. position: opposing - Height: 250 mm.

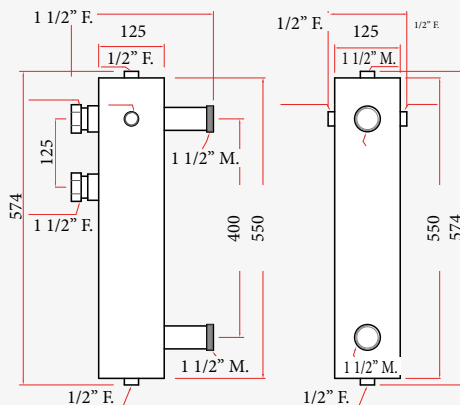
Art. E.603 - Compact hydraulic separator, in painted steel for manifolds series “MODULINOX” (Art. E.600) and “FLUIHUB” (Art. E.700) complete of thermal insulation in EPP, automatic deaerator and check valve, mud drain tap and frontal connection of 1/2”F. for thermometer, temperature probe or manometer.

Item code	Flow rate m ³ /h	Primary circuit connections		Secondary circuit connections	
		Ø	Distance	Ø	Distance
E.603.37	3,7	1 1/2”M. flat seat	400 mm.	1 1/2”F. swivel	125 mm.
E.603.94	8,4	2”M. flat seat	500 mm.	2”F. swivel	250 mm.

DN 32

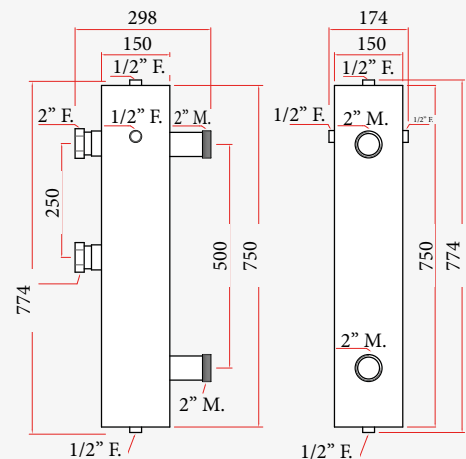


Art. E.603



Art. E.603.37

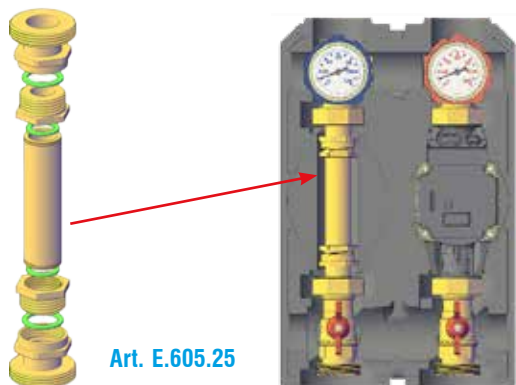
DN 40



Art. E.603.94

Components and accessories for pump groups

Provision for energy meter



Art. E.605.25

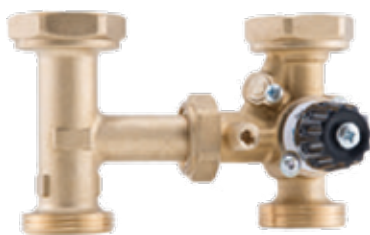
Art. E.605.25 – Stub pipe prepared for the installation of the energy meter, to be used as a replacement for the alignment spacer on DN 25 pump groups.

Suitable for the installation of energy meters: both 1" height 130 mm and 3/4" height 110 mm versions.

By-Pass



Art. E.143.1-



Art. E.143.2-

Art. E.143 – 3-way brass mixing valve with bypass, with pump connections 1 1/2" F. swivel or 2" F. swivel.

Measure:	DN 25	
Type	Valve only – Kv 10 1 1/2" M x 1 1/2" F swivel x 1" M with bypass	With aligned connection fitting 1 1/2" M x 1 1/2" F swivel (Art. E.609.12) with bypass
Item code	E.143.12	E.143.22
Measure:	DN 32	
Type	Valve only – Kv 18 2" M x 2" F swivel x 1 1/4" M	With aligned connection fitting 2" M x 2" F swivel (Art. E.609.20)
Item code	E.143.13	E.143.23



Art. T.095

Art. T.095 – Modulating thermoregulator integrated in servomotor, complete with 3-way brass mixing valve and temperature probe. Mixing valve complete with bypass valve and pump connection. Control range: 1° - 100° C. Adjustable opening-closing time 50-150". Parametrisable opening and closure sense – Parametrisable heating and cooling mode.

Power supply: 230 Vac. Suitable for:

- Temperature control in floor radiant systems.
- Temperature control to avoid condensation in biomass fuel powered systems.
- Temperature control in domestic hot water accumulation or distribution.

Item code	Measure	Kv valve	Connections Ø
T.095.12	DN 25	10	1 1/2" F. swiv. x 1 1/2" M. x 1" M.
T.095.20	DN 32	18	2" F. swiv. x 2" M. x 1 1/4" M.



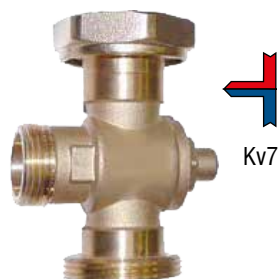
Art. E.147.22

Art. E.147.32

Art. E.147 – 4-way brass thermostatic mixing valve, adjustable 25°-55°C with pump connection 1 1/2" F. swivel – Flow rate KV 3,5.

Suitable for temperature control in floor radiant systems.

Tipo	With connection fitting aligned 1 1/2" M. x 1 1/2" F. swivel. (Art. E.609.12)	Only valve 1 1/2" M. x 1 1/2" F. swivel. x 1" M.
Item code	E.147.22	E.147.32



Art. E.215

Art. E.215 - Anti-condensation thermostatic mixing valve for biomass powered thermal systems with connections suitable for the application of the circulator.

Pressure max 10 bar. Temperature max 100°C.

Item code	Flow range KV	Connections Ø	Calibration temperature °C
E.215.45	9	1 1/2" M. x 1 1/2" F. x 1" M.	45°C x wood
E.215.60		1 1/2" M. x 1 1/2" F. x 1" M.	60°C x pellet
E.215.70		1 1/2" M. x 1 1/2" F. x 1" M.	70°C x pellet
E.215.24	7	1 1/4" M. x 2" F. x 1 1/4" M.	45°C x wood
E.215.26		1 1/4" M. x 2" F. x 1 1/4" M.	60°C x pellet



Art.E.609

Art. E.609 – Special T-joint for aligned supply and return connections with mixing valves (Art. E.143, T.095, E.147.32, E.215). Distance between ends: 90 mm.

Item code	Measure	Connections Ø
E.609.12	DN 25	1½" F. swiv. x 1½" M. x 1" F. swiv.
E.609.20	DN 32	2" F. swiv. x 2" M. x 1¼" F. swiv.



Art.T.106

Art. T.106 – Bidirectional servomotor for mixing valves. Pair: 10 Nm – Power 230 Vac – Opening/closure time: 90".

Adequate power to the valves with diameter up to 1 ½". Rotation angle: 90°.

Item code	Model
T.106.00	Opening and closing
T.106.10	Modulating: 10 V. or 4-20 mA with output

For union fitting to valves, please see Art. T.108.xx on this page.

Equipped with thermostat



Art. E.107.00

Art. T.107.00 – Bidirectional servomotor for mixing valves complete with modulating thermoregulator for temperature control at a fixed point. Complete of display with two buttons and of temperature probe. Control range: 1°-100°C. pair: 10 Nm – Power 230 Vac – Adjustable opening-closing time 60-150". Parametrisable opening and closure sense – Parametrisable heating and cooling mode.

Adequate power to the valves with diameter up to 1 ½". Rotation angle: 90°.

For coupling joints to valves, please see Art. T.108.xx on this page.

For valve:
E.140.03
E.140.10
E.140.14
E.141.11
E.141.15
E.143.12
E.614.12



Art. T.108.01

For valve:
E.140.12
E.141.03
E.141.10
E.141.12
E.141.13
E.141.14



Art. T.108.02

Art. T.108 – Coupling joints for actuator Art. T.106.xx and T.107.00 with mixing valves

Item code	Types for valves
T.108.01	E.140.03 - E.140.10 - E.140.14 - E.141.11 - E.141.15 - E.143.12 - E.614.12
T.108.02	E.140.12 - E.141.03 - E.141.10 - E.141.12 - E.141.13 - E.141.14



E.611.10

E.611.14

Art. E.611 – Brass "Y" fitting with pocket for temperature probe.

Pocket with internal diameter: 9 mm.

Art.codice	Diameter
E.611.10	1"M. x 1"F.
E.611.14	1¼"M. x 1¼"F.

PRE-SALE SUPPORT

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Art. E.613

Art. E.613 - Wall-fixing brackets for pump groups.

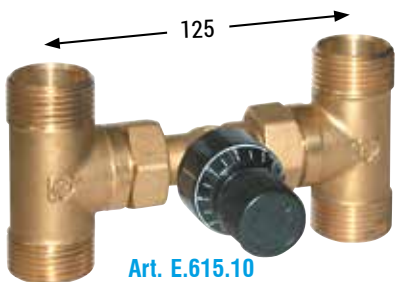
In steel with screws and plugs.

Item code	Pump group type
E.613.25	DN 25 - Art. E.704
E.613.32	DN 32 - Art. E.705



Art. E.610.32

Art. E.610.32 - Pair of brass fittings adapters for the installation of pump groups DN 25 on manifolds with outputs 2" F. (DN 32) – Adaptations from 2" M. to 1 1/2" F.



Art. E.615.10

Art. E.615.10 - Differential balancing module for eliminating overpressures caused by the automatic closing of zones in a system. Pre-assembled in an "H" configuration for installation on supply and return pipes.

Couplings: 1" M. x 1" M. - 1" M. x 1" M. The valve's calibration is carried out by bringing the needle in correspondence to the value detected on the graded scale impressed on the body of the valve.



Art. E.430

Art. E.430 – Brass ball valve with pipe union connection for pump, with screwdriver operation.

Connections Ø	1 1/2" F. swiv. x 1" M.	1 1/2" F. swiv. x 1" F.	1 1/2" F. swiv. x 1 1/2" M.	1 1/2" F. swiv. x copper pipe Ø 22	1 1/2" F. swiv. x copper pipe Ø 28
Item code	E.430.10	E.430.00	E.430.12	E.430.22	E.430.28



Art. E.432

Art. E.432 – Brass ball valve with pipe union connection for pump, with butterfly handle.

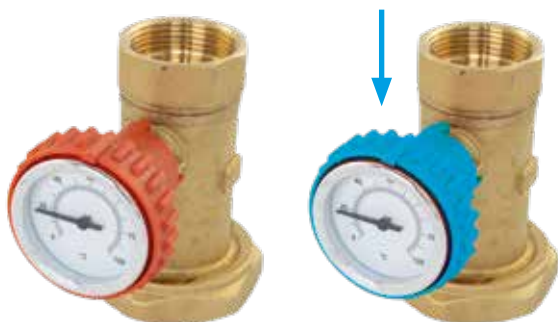
Type	Without check valve		With check valve
Connections Ø	1" F. x 1 1/2" F. swiv.	1 1/2" M. x 1 1/2" F. swiv.	1" F. x 1 1/2" F. swiv.
Item code	E.432.10	E.432.12	E.432.90



Art. E.435

Art. E.435 - Single-piece ball valve with pump connection and two side connections for possible bypass with coloured thermometer-holder handle and thermometer. Pressure max: 10 bar –Thermometer range: 0°C + 120°C. connections 1" F. ÷ 1 1/2" F. swivel.

Item code	Handle color	Model with
E.435.10	Blue	Check valve + valve disconnection
E.435.12	Red	-



Art. E.437

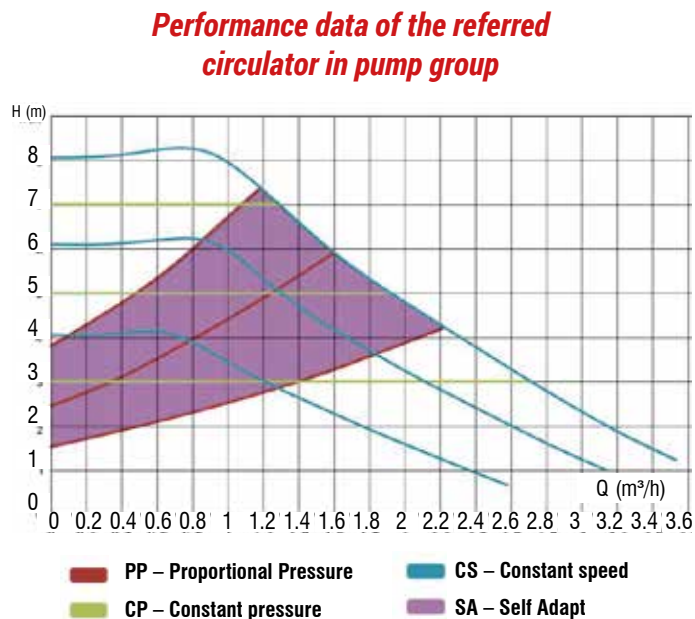
Art. E.437 – Single-piece ball valve with pump connection, with coloured thermometer-holder handle. Pressure max. 10 bar. Thermometer range: 0°C ÷ 120°C.

Item code	Connections Ø	Handle color	Model with
E.437.10	1" F. x 1/2" F. swivel	Blue	Check valve
E.437.12	1" F. x 1/2" F. swivel	Red	-
E.437.20	1 1/4" F. x 2" F. swivel	Blue	Check valve
E.437.22	1 1/4" F. x 2" F. swivel	Red	-

Circulating pumps



Art. P.110 - Circulator referred to in pump groups



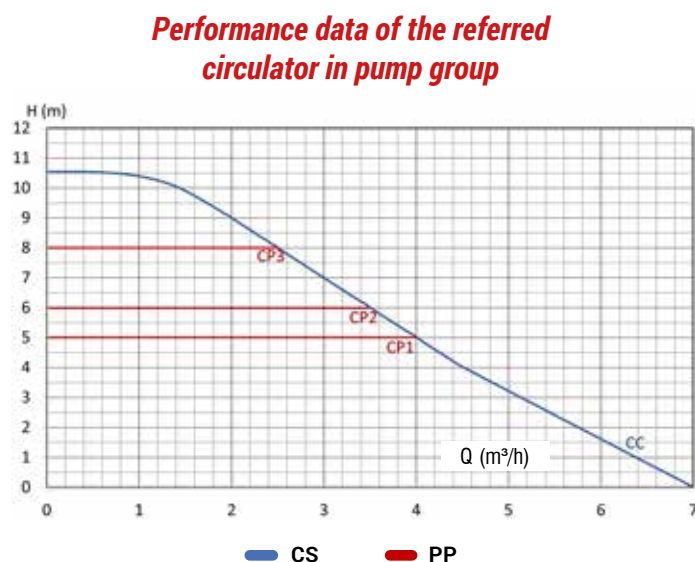
Art. P.110 – ANTARES circulating pump, Modulex Hybrid type, with high-efficiency inverter, wet rotor. Equipped with PWM control socket and SELF ADAPT function, self-regulating with or without connection to the PWM controller cable. Operating temperature range: 2 – 110 °C.

Max flow rate: 4.1 m³/h. Self-regulating. Meets all circulation requirements in a single product. Complete with gaskets and power cables. Power supply: 230 Vac – 4-year warranty.

Head: Art. P.110.68 – 6 mt. Art. P.110.88 – 8 mt. For more detailed performance specifications, see the technical documentation.



Art. P.066 - Circulator referred to in pump groups

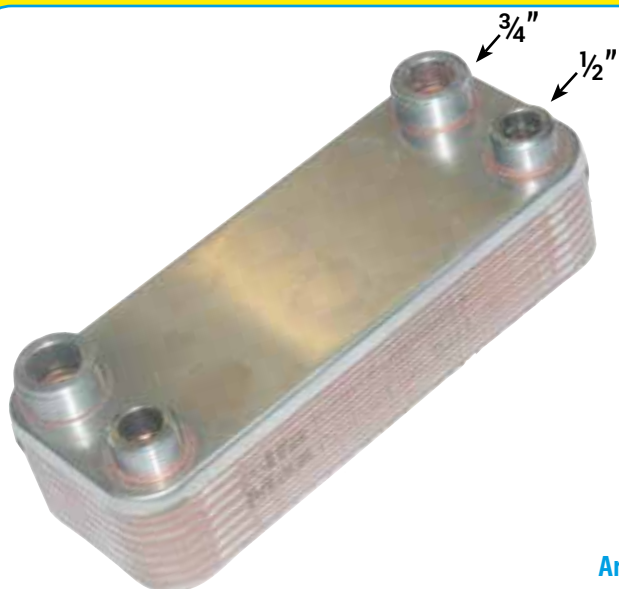


Art. P.066 – “AlfaMaior” circulating pump, high energy efficiency, wet rotor, with Energy Efficiency Index (EEI) lower than 0.23. Equipped with front electronic control unit. Complete with insulation shell.

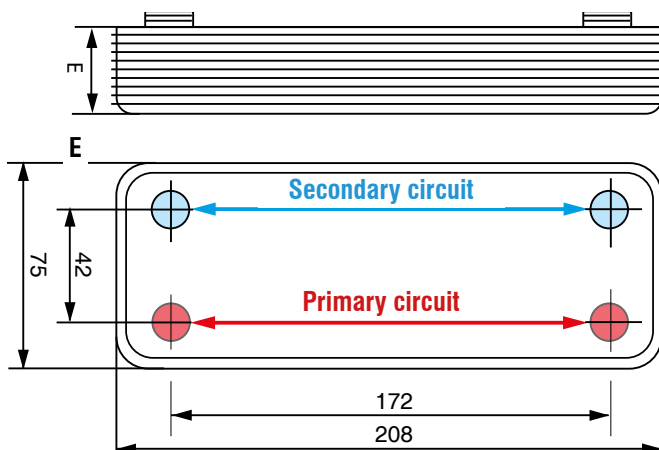
Compliant with European Directive 200/125/EC. 3-year warranty.

For more detailed performance specifications, see the technical documentation.

Exchanger S.004 and S.009 for heat exchange and circuit separation



Art. S.004



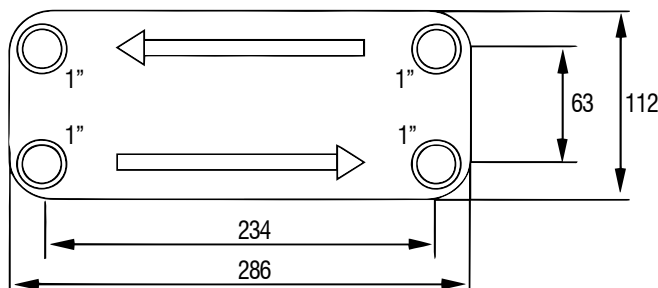
● Heating circuit ○ Domestic circuit

Art. S.004 – “AlfaMax” type XS 208 X 75 instantaneous brazed stainless steel plate heat exchanger. Threaded connections.

Item code	N° plates	KW	Thickness E mm
S.004.74	14	35	38,4
S.004.70	20	50	51,8



Art. S.009

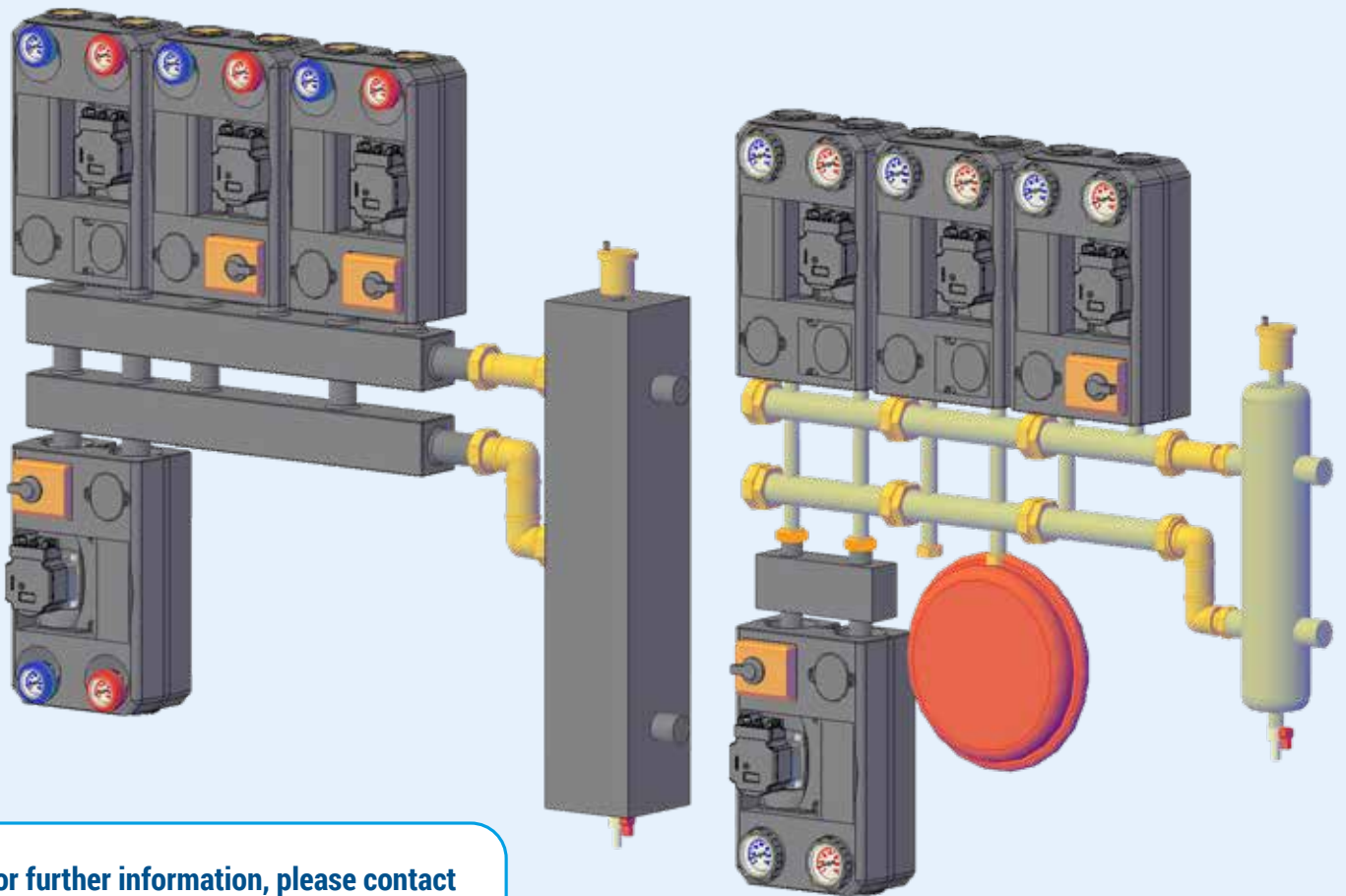


Art. S.009 – Brazed plates exchanger type 286 x 112, with threaded connections 1" M. X 1"M.

Item code	N° plates	KW	Heat exchange surface mq
S.009.20	20	25	0,49
S.009.30	30	35	0,76
S.009.40	40	45	1,03

Important: The data given are explicative, the KW value is in relation to Δt (difference between primary and secondary circuit temperature input and output). The fundamental value for the choice of the exchanger is the thermal exchange surface extent.

Modular units for boiler plants



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Surface pumps



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Biomasses



Temperature probes





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- ▶ **Italy: LUCCA - Via Martini, 111**
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PRE-SALE SUPPORT

Our technical office is always available for more detailed information, and to help you choose the right products.

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