

COMPONENTS FOR HEAT PUMPS AND HYDRONIC TERMINALS

ENERGY EFFICIENCY THROUGH HEAT PUMPS

Heat pumps represent a strategic solution for mitigating climate change, as their installation enables a significant reduction in CO₂ emissions associated with building heating and cooling systems.

The **REPowerEU** plan, an integral part of the **European Green Deal** initiatives, aims to diversify gas supply, accelerate the energy transition, and promote the electrification of final energy consumption. In this context, the replacement of gas boilers with heat pumps is a key measure for reducing natural gas consumption in residential and commercial buildings. In addition, numerous Member States have already introduced support schemes and incentives to promote the deployment of these technologies, in line with the decarbonisation targets set by the Green Deal.

The European heat pump market is experiencing rapid growth, with a strong preference for air-to-water solutions. This choice is driven not only by lower costs compared to geothermal systems, but also by high energy efficiency and greater ease of installation.



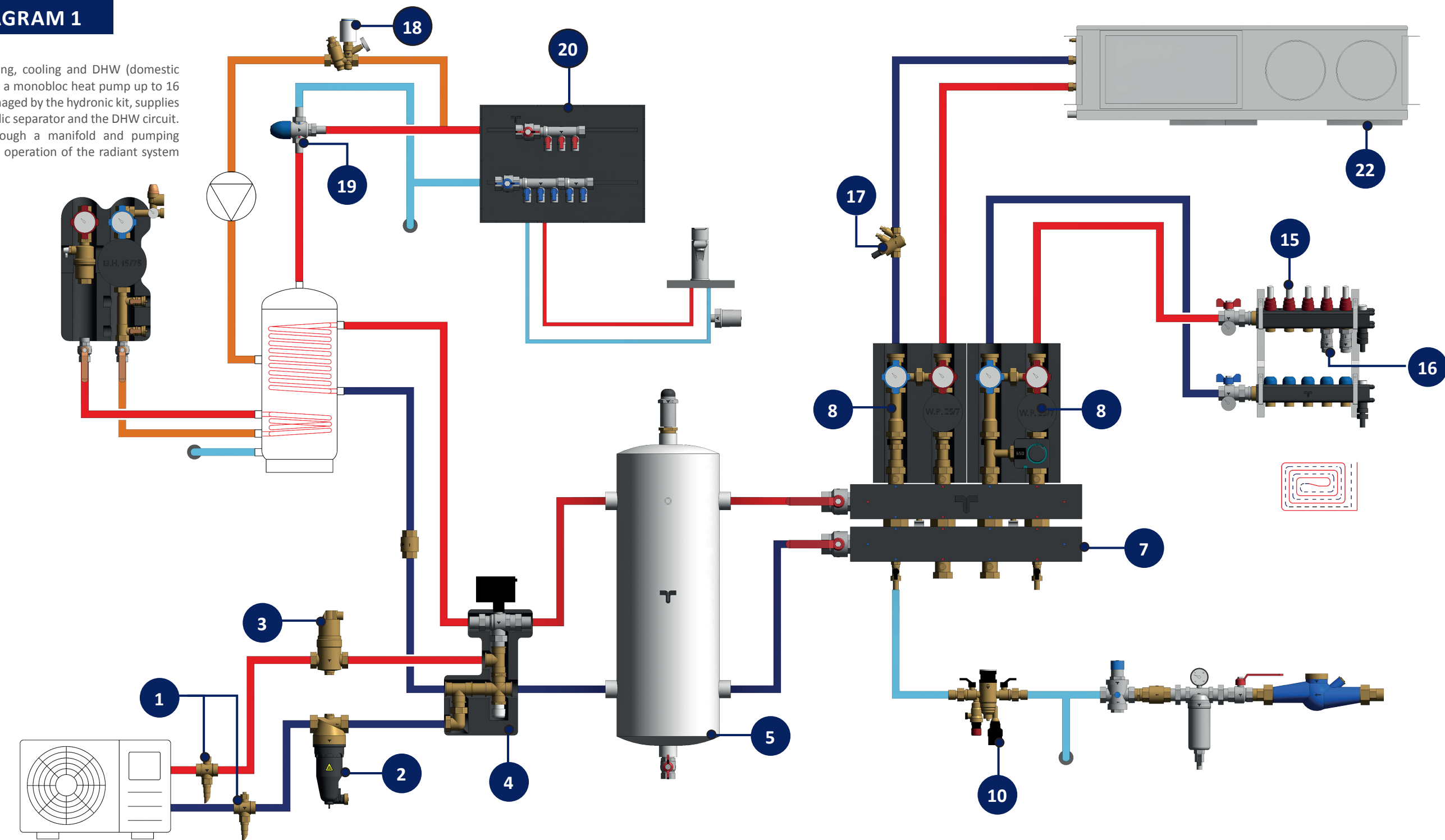
In future, heat pumps will play a key role in achieving the objectives outlined above. For this reason, Tiemme has expanded its product range with complementary solutions to ensure proper, standards-compliant installation.

*We transform brass into
reliable solutions serving industry
and progress for the
well-being of people.*

Gruppo Gnutti purpose.

HYDRAULIC DIAGRAM 1

Integrated system for heating, cooling and DHW (domestic hot water) production using a monobloc heat pump up to 16 kW. The primary circuit, managed by the hydronic kit, supplies the system up to the hydraulic separator and the DHW circuit. The secondary circuit, through a manifold and pumping groups, ensures the correct operation of the radiant system and the air handling units.

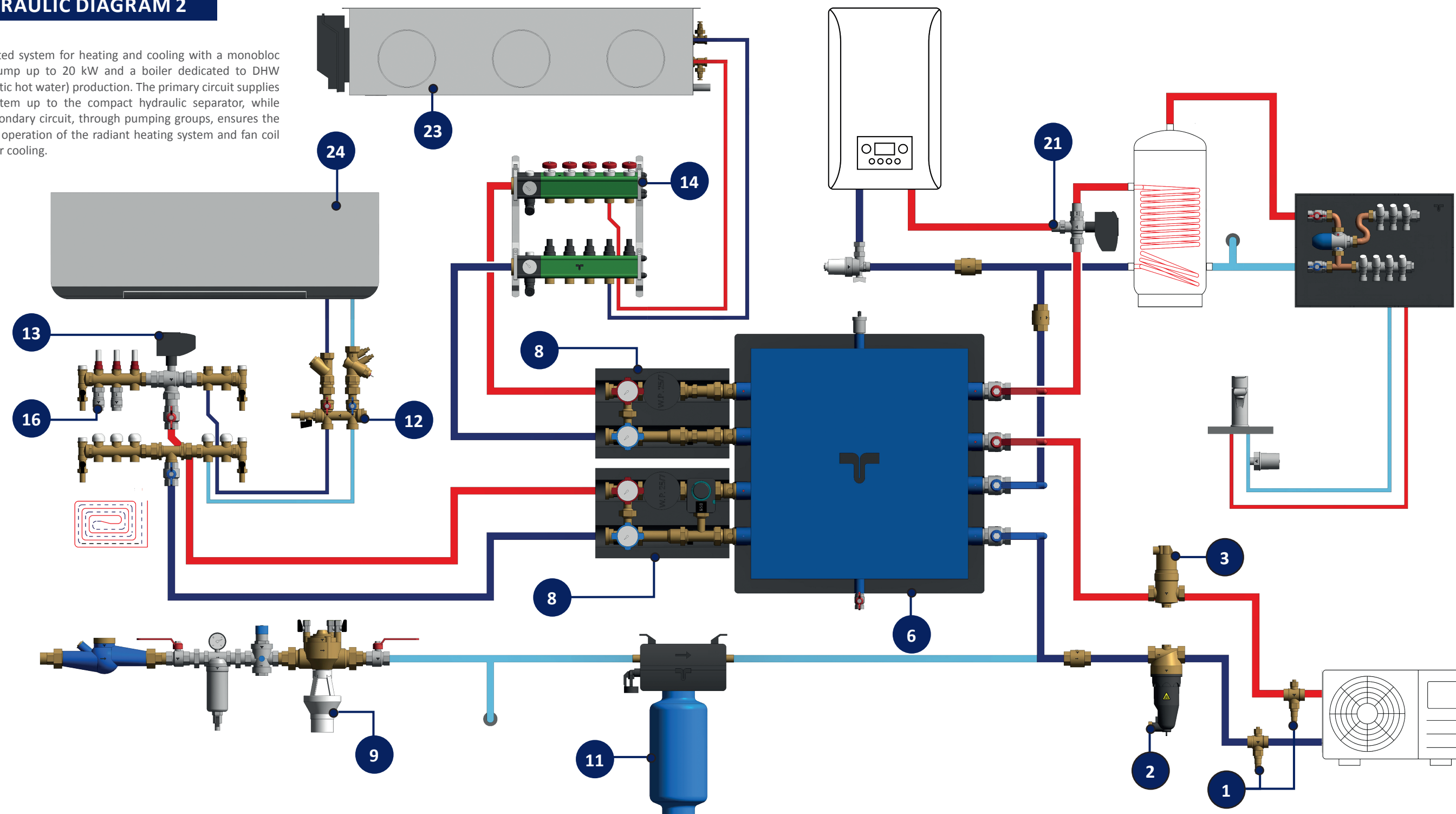


- 1** **Art. 1926**
Antifreeze valve
- 2** **Art. 3149HF**
TM-MAG MAXI linear magnetic dirt separator filter, F connections - high flow
- 3** **Art. 5570**
Automatic bubble or microbubble deaerator with insulation
- 4** **Art. 5532PDC**
Hydronic unit for HP-DHW management
- 5** **Art. 3168**
Inertial accumulation in stainless steel with function of hydraulic separator in combination with systems with heat pump
- 6** **Art. 3169**
Hot water storage tank in painted steel with function of hydraulic separator and 4-inlet manifold for combination with hybrid systems.

- 7** **Art. 5540G**
Brass manifold for central heating system with ball valves and insulation shell
- 8** **Art. 5536G**
Art. 5542GS
Hydraulic units for heating/cooling system management
- 9** **Art. 3501**
BA type back flow preventer with controllable reduced pressure zone
- 10** **Art. 3163**
Compact automatic filling unit with BA-type disconnecter and insulation
- 11** **Art. 3164**
Compact automatic filling and water treatment unit with BA type disconnecter and insulation
- 12** **Art. 3162**
Multifunction kit for air terminal units (Fan coil units, fan blasters...)

HYDRAULIC DIAGRAM 2

Integrated system for heating and cooling with a monobloc heat pump up to 20 kW and a boiler dedicated to DHW (domestic hot water) production. The primary circuit supplies the system up to the compact hydraulic separator, while the secondary circuit, through pumping groups, ensures the correct operation of the radiant heating system and fan coil units for cooling.



- 13** **Art. 5533**
Ventil kit with diverter valve
- 14** **Art. 3873POL**
1 1/4 polyamide manifold with mechanical memory screws and insulation shell
- 15** **Art. 3871POL**
1" polyamide manifold with flow meters
- 16** **Art. 4729**
Thermostatic cold-water anticirculation valve
- 17** **Art. 6542CC**
TIEMME-EASY Flow rate regulators with externally adjustable cartridge and pressure ports included
- 18** **Art. 4734**
Multifunction thermostatic regulator for domestic hot water recirculation circuits with actuator controlled thermal disinfection

- 19** **Art. 4739**
Chrome-plated thermostatic adjustable mixing valve, with tangs, for domestic hot water
- 20** **Art. 1812**
Art. 1822
NINO manifolds with ball valves and box
- 21** **Art. 2135**
3-way deviation motorized ball valve - 3 unions connections - with servocontrol
- 22** **Art. 5602GHWZ**
CMV dehumidifier with high efficiency recuperator and renewal for ceiling installation
- 23** **Art. 5603FAN**
Ductable multi-zone fan coil unit
- 24** **Art. 5607FAN**
Ultra slim fan coil unit for wall mounting



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