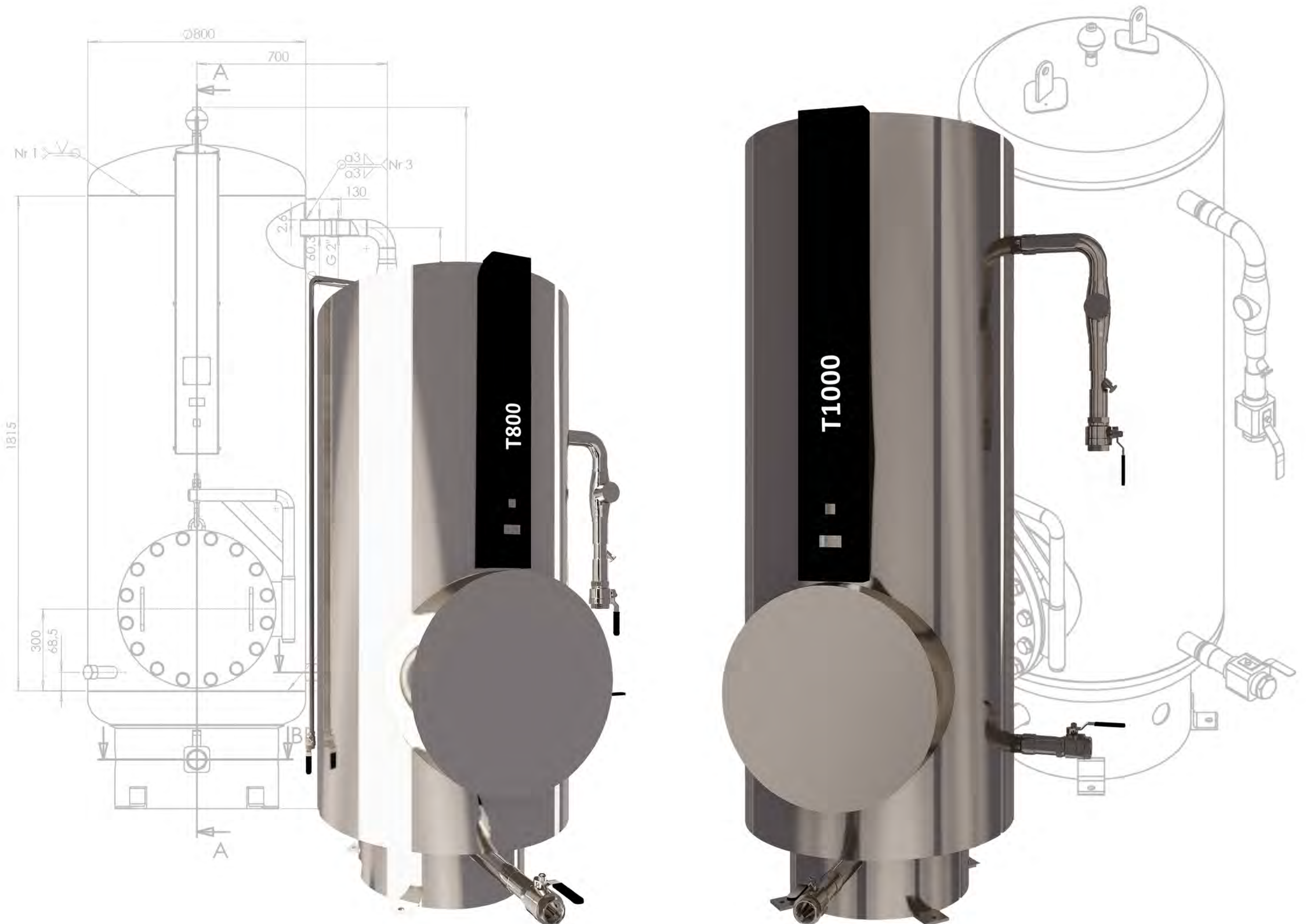


DATASHEET

For part numbers and prices please see pricelist



IWTM Industrial Models - Type 260 / 500 / 800 / 1000

IWTM appliances provide closed loop heating and cooling systems with effective and sustainable protection from corrosion, removing the gases, minerals and pollutants commonly found in mains water which are key contributors to the corrosion process. Once removed, we ensure that they are not reintroduced, engineering environments where corrosion cannot happen and bacteria cannot survive.

PRODUCT DESCRIPTION/FUNCTION

IWTM units follow the rules of science, using the anode/cathode principle. Sacrificial anodes are highly active metals that are used to prevent a less active material surface – copper, aluminium, steel and carbon steel - from corroding. Our magnesium anodes have a more negative electrochemical potential than the other metals they will serve to protect.

In dissolving the anode(s) the concentration of dissolved oxygen in the system water is reduced to a negligible level. The magnesium hydroxide produced in this process is released into solution, raising the pH value to an optimum range. The electrical conductivity then drops as does the water hardness. The result is alkaline water that is low in salts and has a minimal oxygen concentration significantly reducing corrosion potential.

In so doing they meet the explicit requirements set out by VDI 2035, Europe's most stringent standard for water quality within hot water heating systems. VDI 2035 is referenced by many major industry manufacturers as a condition of warranty.

The process is self-regulating as when the optimum levels are achieved in the system the absence of oxygen means that the magnesium anode no longer dissolves.

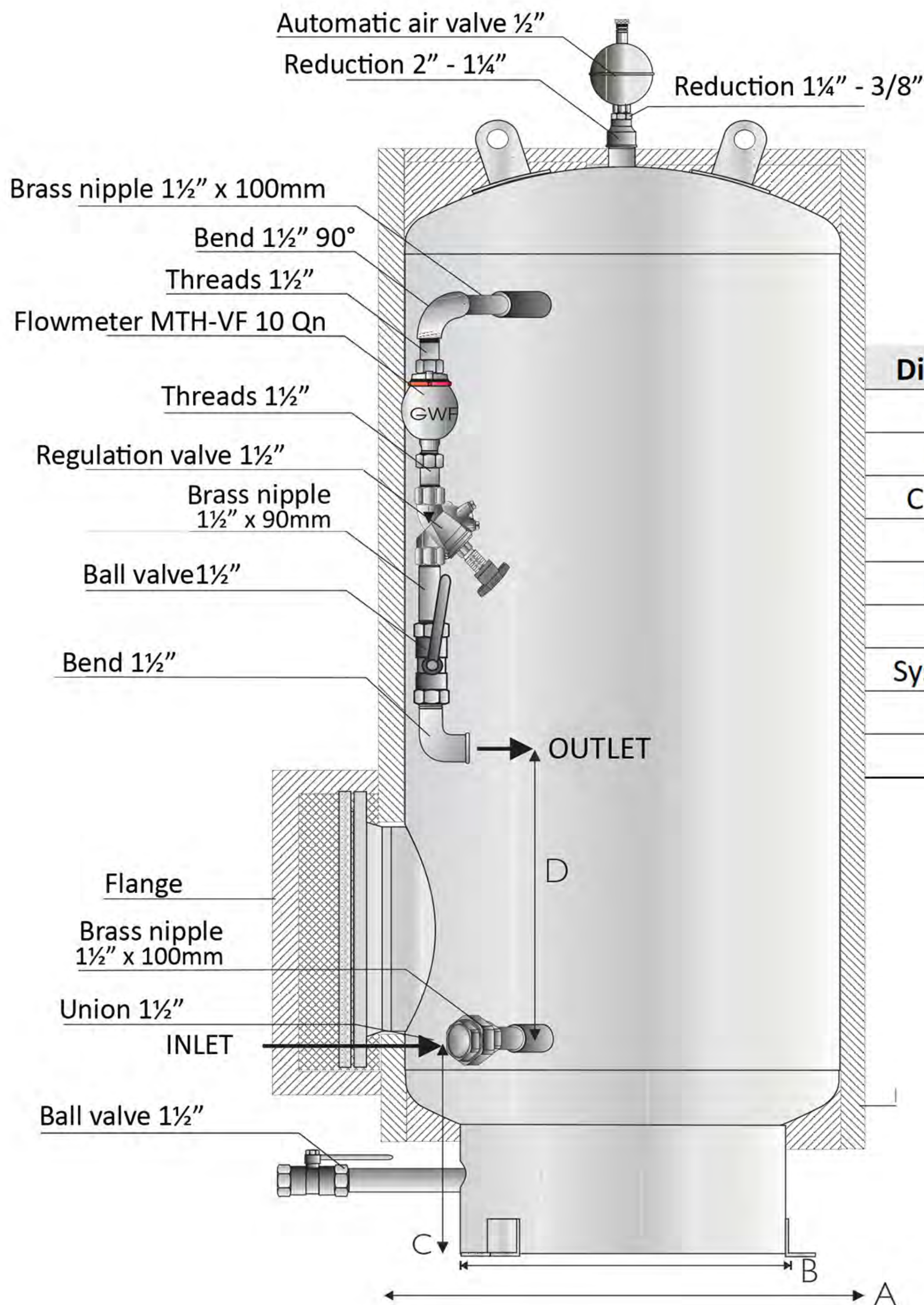
BENEFITS

- Established history of meeting the strictest water quality standards, often where chemical dosing has not been successful
- Reliability: greater system efficiencies, better heat transfer and overall performance
- Genuinely environmentally friendly solution. No chemical-free alternative on the market
- Commercially AND environmentally viable; Often cost of the equipment is less than that of a chemical clean
- Protect CapEx investment, ensure increased operational life of equipment
- Reduced heating and maintenance costs and potential for high carbon saving
- Complements and boosts efficiencies of other green tech: heat-pumps, bio-mass, etc
- Multi-metal protection; Protects systems composed of a variety of metals incl. copper, steel, aluminium and carbon steel
- Ensure compliance with equipment manufacturers' warranty conditions
- Suitable for new systems and retrofittable to existing with no need for system downtime or flushing
- Simple servicing routine and minimal ongoing maintenance costs, no skilled-staff required
- No COSHH requirements, no haz-mat leakage, no Trade Effluent Licences, no risk assessments: safer for staff to use and easier to maintain
- Measures in place to safeguard integrity of water treatment processes. In the event of unrecorded remedial works the units will simply self-regulate to get the water quality back under control
- Premium quality engineering with 50 years of proven performance
- Brand name enjoys recognised market credibility and major manufacturer confidence with branded product partnerships with Vaillant, Viessman, ELCO, Buderus (Bosch) and several others
- Elegantly scalable – the same underlying scientific principles are applied to residential systems of 100 litres and industrial systems of 300,000 litres



TYPICAL INSTALLATION

Components may vary according to site requirements



Dimensions in mm	type 260	type 500	type 800	type 1000
A Overall height	1590	2230	2120	2571
B Tank diameter	600	600	800	900
C Inspection hatch	270	230	300	300
D Inlet - outlet	625	1290	1060	1630
E Inlet - bottom	385	385	530	500
Connector size	1 1/4"	1 1/2"	1 1/2"	1 1/2"
System Volume m ³	70	120	220	300
Litres/minute	25 to 50	50 to 100	80 to 160	100 to 200
Weight (kg)	262	355	480	530

Safety



Not drinking water



Maximum 150 °C



Maximum 16 bar pressure

Approved Quality

The following national standards and regulations have been applied:

DIN 50930 - Corrosion of metals - Corrosion of metallic materials under corrosion load by water inside of pipes, tanks and apparatus

ONORM 5195-1 Heat medium for technical building equipment - Part 1: Prevention of damage by corrosion and scale formation in closed warm-water heating systems

VDI 2035 - prevention of damage in water heating installations - Water-side corrosion

SWKI BT 102-01 - Heating Water directive of the Swiss Society of Building Engineers