

Model EHHE: Hybrid High Capacity Water Heater

50 – 2.000 kW for water / steam operation

“The Green Calorifiers”



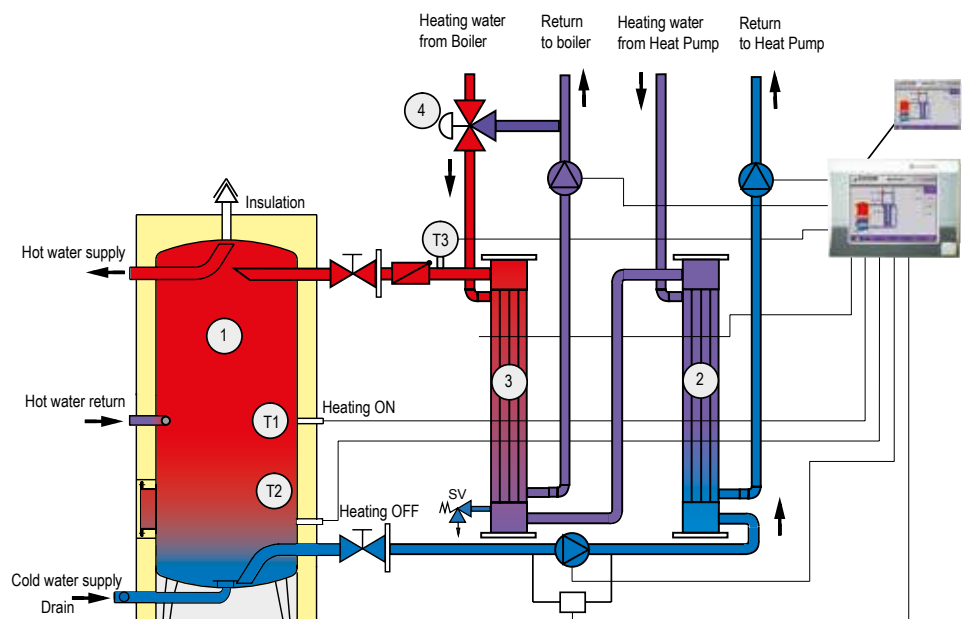
Description

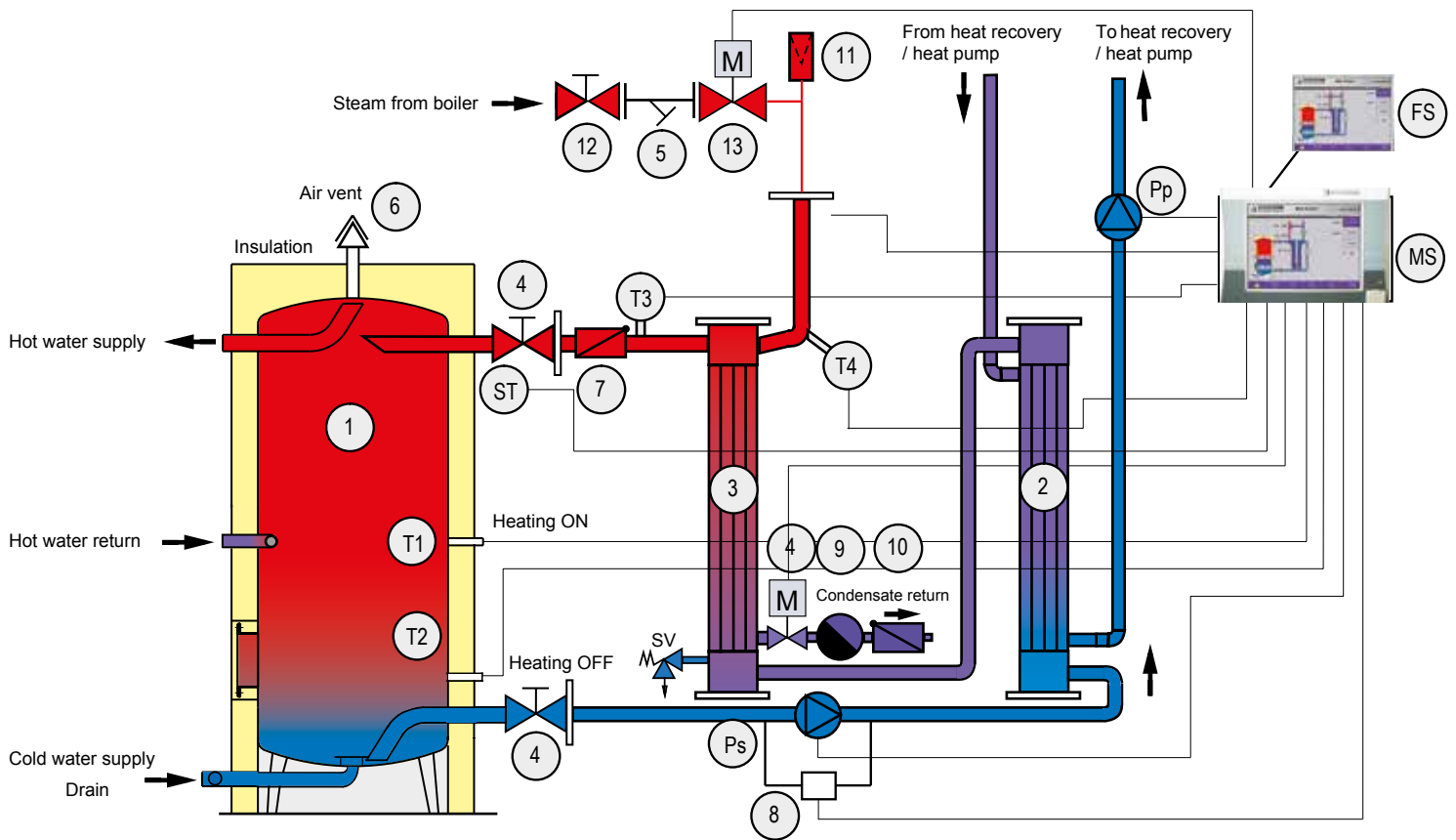
- Multiple-stage heating of water in two shell and tube heat exchangers by individual and independent primary heat sources
- Efficient utilizing of the available heat sources with maximum hygiene since no stagnation of water with less than 60°C will occur
- Possibility of thermal disinfection of the water at >70°C in the second heat exchanger
- Highly efficient heat transfer and most extensive prevention of liming and scaling through self-cleaning effect of patented shell & tube heat exchangers with free floating turbulator rods made of stainless steel.
- Fibre-Fleece insulation of storage tank with robust outer sheathing made of PP (RAL 7037), patented aluminum closure strips and self-fixing closure caps, quick and easy installation, 80 mm insulation up to 1,000 liters and 100mm above. 100% recyclable, fire protection class B2 (B1 upon request)

Example

- Pre-heating of the water to e.g. 45°C by utilizing e.g. a heat pump or heat recovery of a chiller or any other waste heat
- Systems can be designed that the entire heating can be accomplished by the second primary source only, if the first primary source is not available

Two primary heat sources,
one secondary connection





- 1 **Stainless steel hot water storage tank**, standing, with removable fibre-fleece insulation
- 2 **Stainless steel heat exchanger** for pre-heating with patented floating tubular rods, pre-assembled with piping
- 3 **Stainless steel heat exchanger** for after-heating with patented floating tubular rods, pre-assembled with piping
- 4 **2 way condensate control valve with electric actuator** controlled by T3 to regulate the hot water temperature
- 5 **Manual gate valve** for inspection or removal of heat exchanger without draining the tank or losing service
- 6 **Safety pressure valve** set at 10 or 6 bar, corresponding to maximum tank operating pressure
- 7 **Automatic air vent** and anti-vacuum valve, with manual cock for rapid air expulsion during tank filling
- 8 **Non-return valve** for prevention of hot water/condensate convection back flow during standby
- 9 **Steam trap** ensures protection of control components from steam
- 10 **Differential pressure sensor** for monitoring heat exchanger fouling
- 11 **Vacuum breaker**
- 12 **Shut off valve:** Shut off from steam and condensate system Kondensatsystem ab
- 13 **Two way high temperature safety and shut off valve** with electric actuator
- 14 **Strainer** to protect control components