

INNOVATIVE SYSTEMS FOR RAISING ECONOMIC
AND ENERGY EFFICIENCY IN HEATING AND COOLING

SYSTEM SEPARATION HEAT RECOVERY HEAT PUMP STORAGE TANKS COLD STORAGE



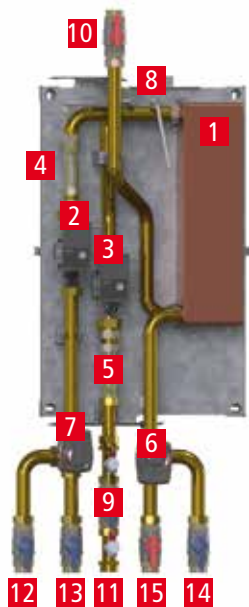
FLEXIBILITY IN ALL AREAS WITH SAILER SYSTEM SEPARATION

SYSTEM SEPARATION

Sailer system separation – the flexible system for separating two circuits with the same or different fluids via efficient plate heat exchangers.

Modular separation station • Flexible for multiple applications • Separation of two circuits via efficient plate heat exchanger • Continuous flow principle • Use of pumps, flow sensors and mixing or switching valves according to requirements • Transfer performance according to application range and purpose up to 250 kW. Larger systems available on request.

Components, Connections, Dimensions

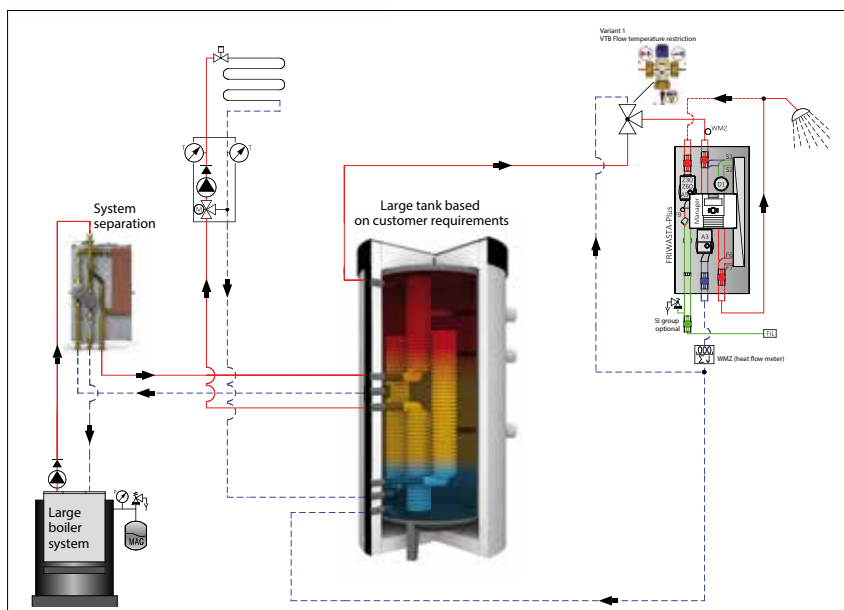


Components:

- 1 Stainless steel plate heat exchanger
- 2 Secondary side circulation pump (optional)
- 3 Primary side circulation pump (optional)
- 4 Secondary side flow sensor (optional)
- 5 Primary side flow sensor (optional)
- 6 Secondary side switching valve (optional)
- 7 Secondary side switching valve (optional)
- 8 Vent connections
- 9 Flush connections (optional)
- 10 Flow line ball valve

- 11 Return line connection
- 12 Low temperature return line ball valve (opt.)
- 13 High temperature return line ball valve (opt.)
- 14 Low temperature flow line ball valve (opt.)
- 15 High temperature flow line ball valve (opt.)

Dimensions: H x W x T 891 x 530 x 362 mm, without accessories. Dimensions for connections and fittings, incl., hole and drilling pattern, can be found in the Technical Data Sheet.



Application examples:

Including the separation of heating and cooling circuits, solar thermal and tank circuits, the separation of monoblock heat pumps and the tank circuit, and heat recovery.

Example:

With large boiler systems it can be worthwhile separating the boiler circuit from the tank circuit. This is because of the high requirements for water in the boiler circuit based on VDI 2035 and guaranteeing that the boiler circuit is protected against impurities in the water.

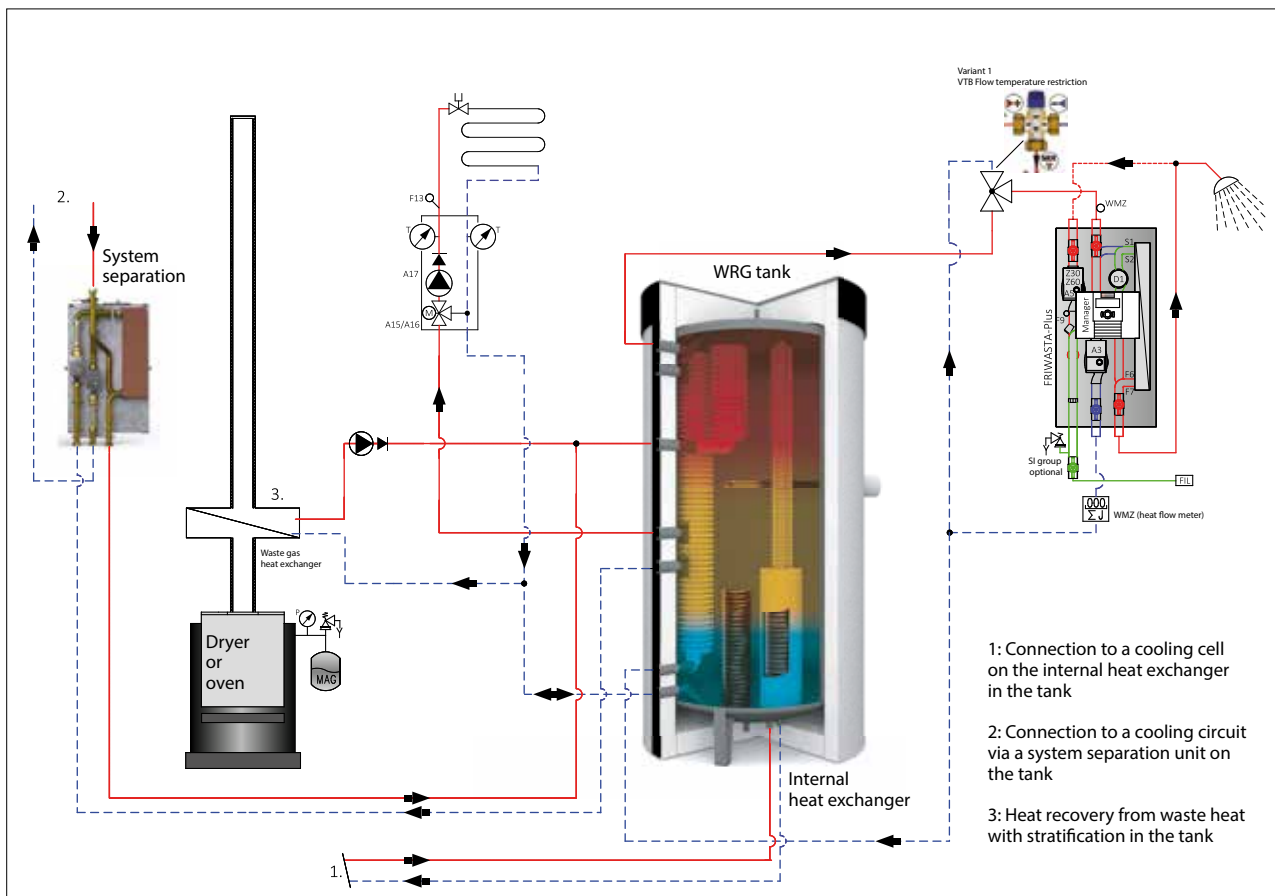
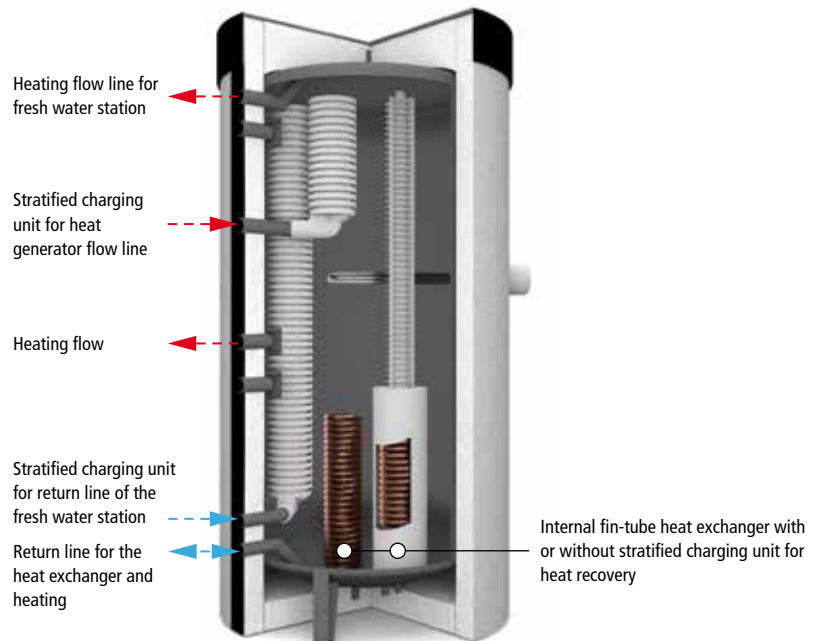
Other options for integrating system separation can be found on page 7.

EFFICIENT STORAGE OF WASTE HEAT INCREASES ECONOMIC EFFICIENCY!

HEAT RECOVERY

Savings created by process heat recovery.

- Minimises primary heat consumption
- Process heat recovery
- Individually adjustable: drying plants, food industry, etc.
- Direct connection of the cooling system to the tank, evaporator and condenser in the storage tank via soldered connections.
- For connecting cooling systems, internal heat exchangers can be installed in various sizes with and without a stratification element.

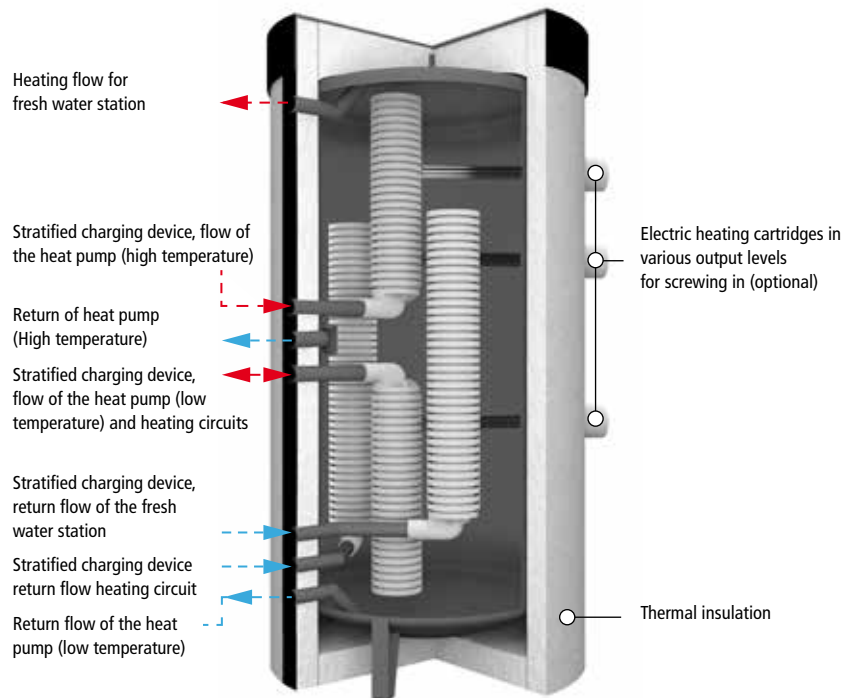


A TANK FOR EVERYTHING – SUFFICIENT HEAT FOR HEATING AND DOMESTIC WATER

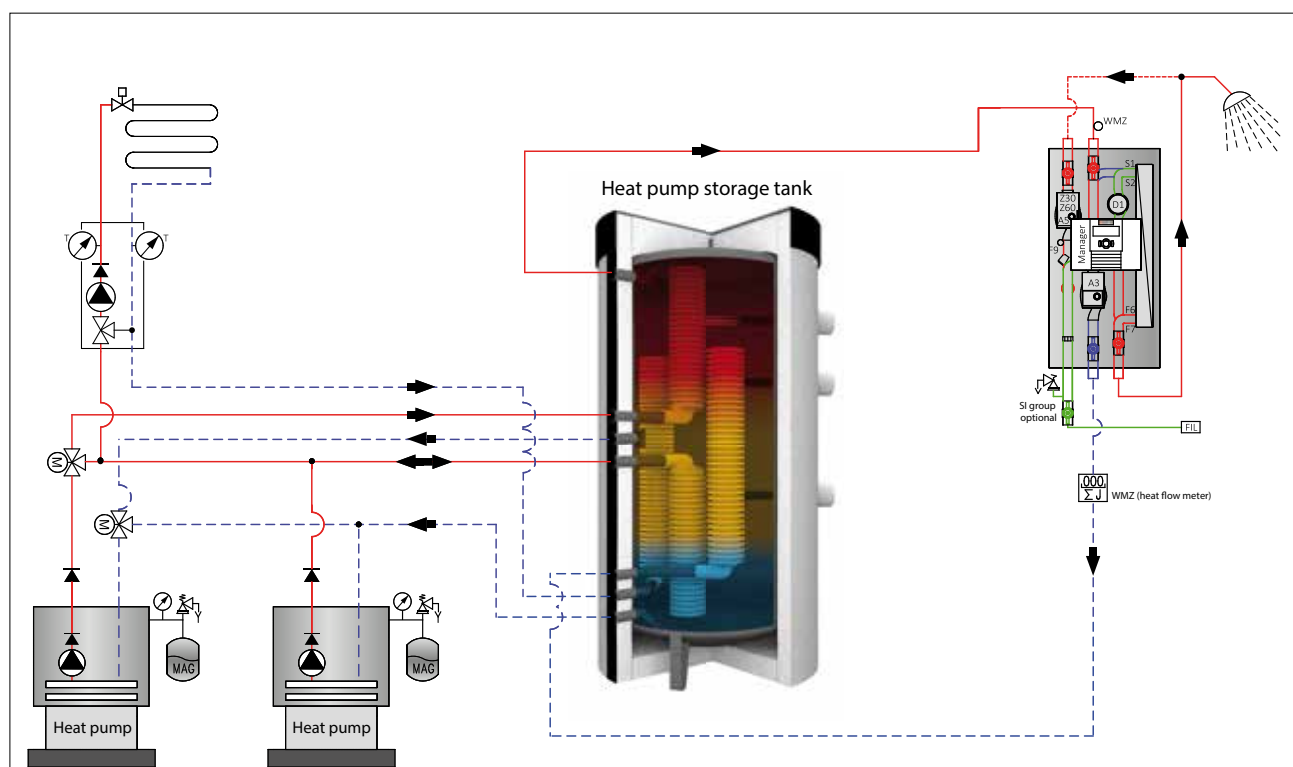
HEAT PUMP STORAGE TANKS

The heat pump tank with precisely coordinated thermal stratification.

- Heat pump tanks for detached and semi-detached homes
- Intelligent stratification technology and the option of reheating via integrated electrical heating elements means that the tank, in combination with a Friwasta Plus fresh water station, can cover the heat requirement for both heating as well as fresh water
- Shorter charging times thanks to stratification
- Stratification up to 4 or 8 m³/h
- Reheating possible via electrical heating cartridges in three tank zones
- Low flow temperatures achievable in combination with a Friwasta Plus due to the efficient hot water preparation based on the continuous flow principle



System with WPS-MFH type buffer tank.

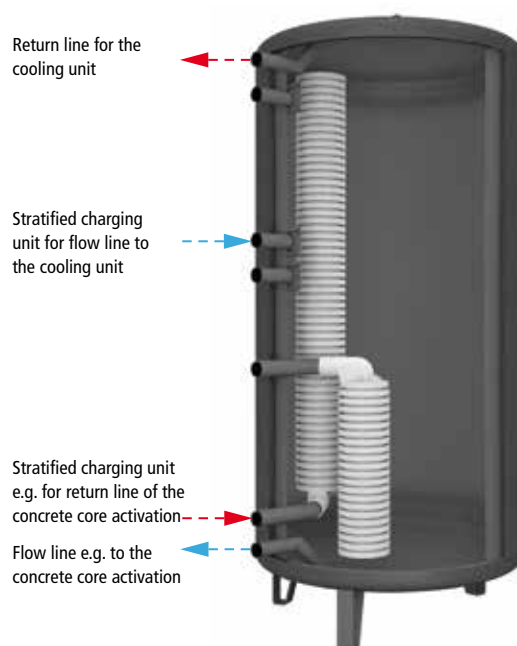


MORE EFFICIENT COLD STORAGE THANKS TO STRATIFICATION TECHNOLOGY!

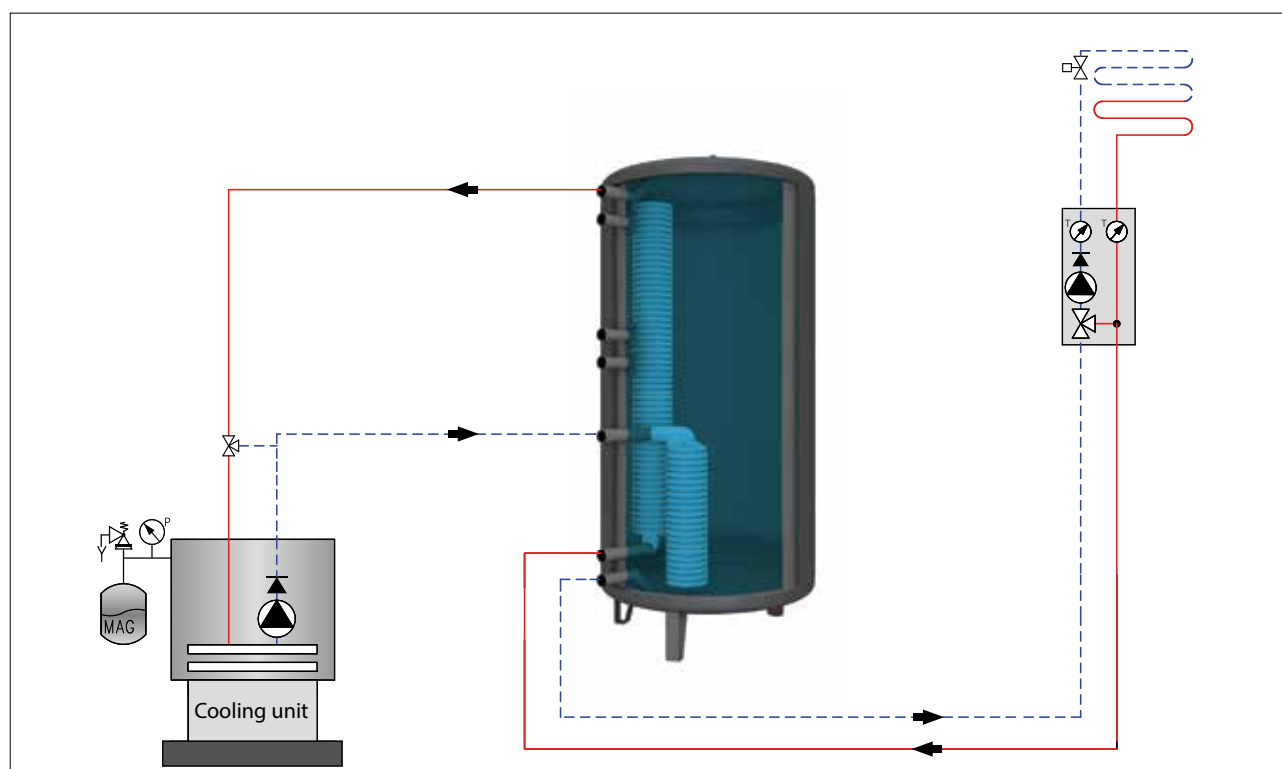
COLD STORAGE

Delivers advantages in terms of energy, economic efficiency and the environment.

- Air-conditioning system and industrial applications
- Cooling can be stored in a range of 4 to 35°C
- Insulation prevents the build-up of condensation, while still guaranteeing thermal conductivity
- Can be delivered pre-assembled with a thickness of 25 mm for tanks with volumes from 500 to 100,000 litres
- The cold storage tank also operates efficiently with reversible heat pumps (see page 6)

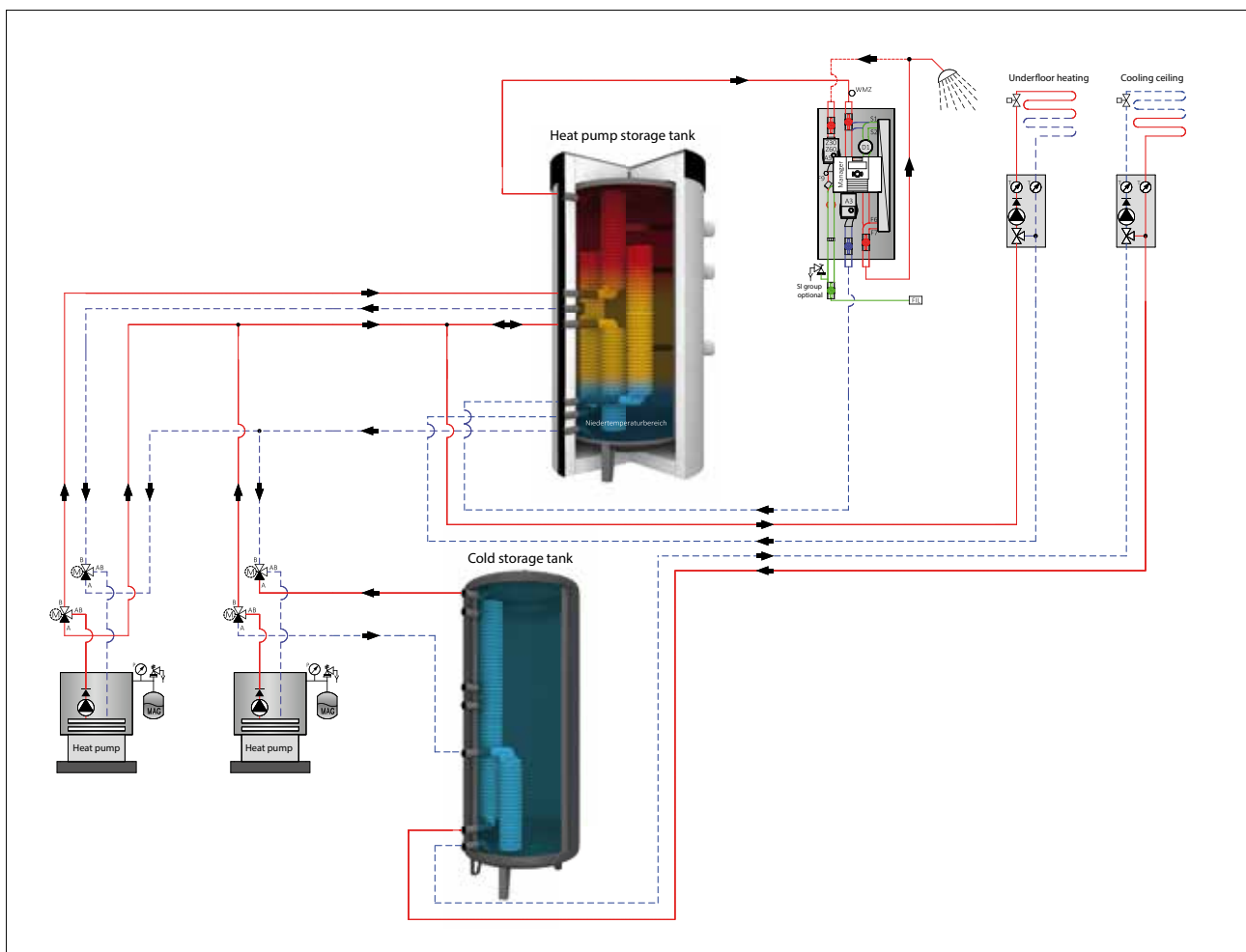


Standard system for stratified cold storage.



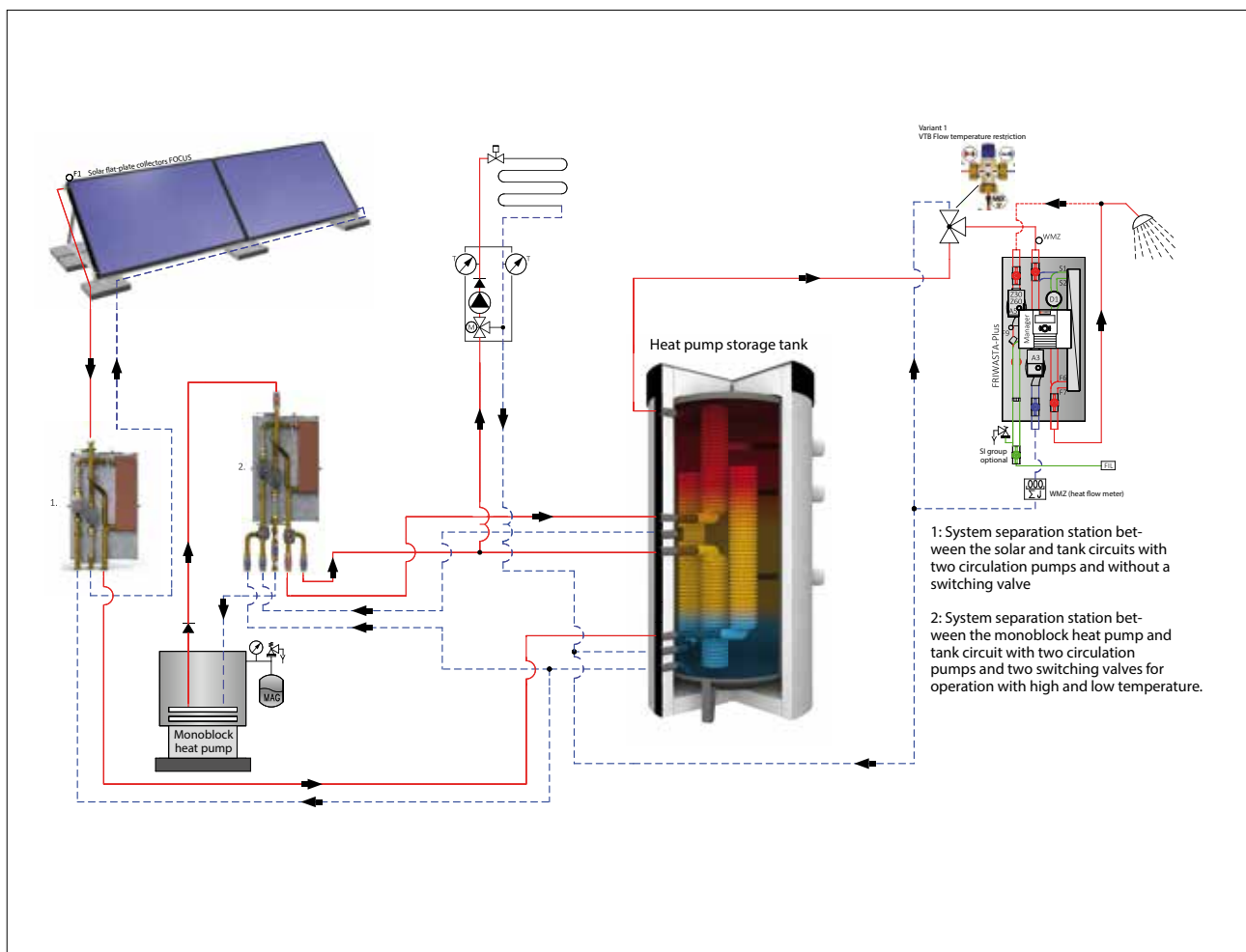
WPS-MFH tank and cold storage tank

The hydraulic diagram shows a WPS-MFH stratified tank and a cold storage tank with two reversible heat pumps, a FRIWASTA Plus fresh water station, FBH and cooling ceiling. The heat pumps can both feed the WPS-MFH and the cold storage tank.



Heat recovery tank and system separation

This diagram shows an example of the separation between the tank circuit and the circuit of a monoblock heat pump, as well as the separation between the tank circuit and the solar circuit by means of a system separation station. Separation is useful here because in both cases, the circuits contain different fluids. A FRIWASTA Plus fresh water station can be used to ensure the supply with domestic water and the heating requirement via the underfloor heating.



State-of-the-art technology from Sailer for generation, storage, transfer and control.

When it comes to energy efficient systems, the name Sailer GmbH has been well known to designers, wholesalers and installers for many years. Sailer offers an extensive range of high-quality products and system solutions for technical building installations.

These are used in detached and semi-detached homes, new and old buildings, restaurants, guesthouses and hotels, municipal and public buildings such as schools, military facilities, civil defence, the fire service, commercial and industrial firms, sports facilities and more.

