

FK-5 BREAK TANK STATION CASCADE ARRANGEMENT

Figure 369

The cascade arrangement of the break tank station allows the discharge to be increased without increasing the outlet pump pressure. The cascade units do not cover redundancy. The maintenance interval acc. DIN EN 806-5 must be followed.

Installation

- // A sufficiently large size must be selected for the drinking water or well system pipes in accordance with DIN 1988-300 / DIN EN 806-3 in order to be able to supply the required volume of water.
- // A sufficiently large size must be selected for the non-potable water pipes in accordance with DIN 1988-300 / DIN EN 806-3 in order to be able to transport the volume of water supplied to the consumer.
- // The required flow rate and pressure must be taken into consideration when sizing the pipe for drinking water, fountains, and non-potable water.
- // A sufficiently large size must be selected for the wastewater pipes in accordance with DIN 1986-100 / DIN EN 12056 to avoid damage from overflows.
- // A dirt trap must be installed in the pipes for drinking water or fountains.
- // We recommend installing a membrane expansion vessel in the non-potable water pipes to avoid frequent cycling of the pump due to very small water withdrawals. We recommend an expansion vessel with a minimum capacity of 60 litres.
- // The membrane expansion vessel pressure should always be 0.5 bar less than the cut-in pressure of the break tank station.
- // All cascade units must have the same pipe size.
- // The individual cascade units must have a second inlet (water supply set plus, Figure 369 01). This ensures continuous operation is possible under full utilisation.
- // Every connection must have its own maintenance cut-off.

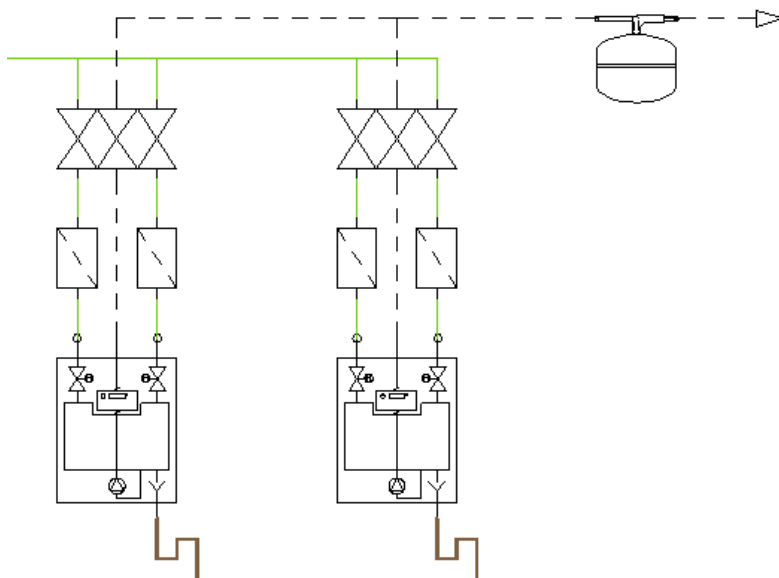


Fig. 1: Cascade unit installation

Software settings

- // All break stations must have the current product software.
- // The pump cut-in pressure must be the same on both plants.
- // The date and time must be the same.
- // Define the flushing times for the plants in accordance with on-site requirements (e.g. every other day).