

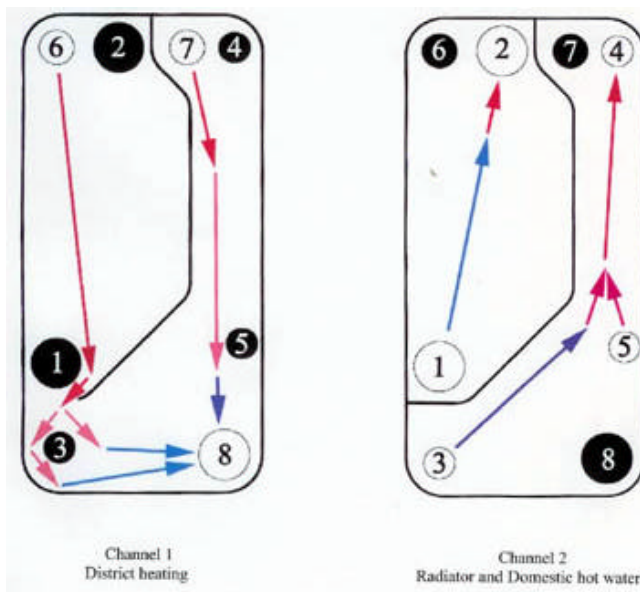
DH59, The District Heating Heat Exchanger

The DH59, is a new brazed plate heat exchanger, especially designed for district heating systems.

It's the first brazed heat exchanger ever, where there are two different media in one channel. This channel is divided into two separate sections, one for radiator heating and the other for domestic hot water heating.

In the DH-59, you will find all the heat exchange components you need for a substation, namely a radiator heater and a two-stage domestic hot water heater. This highly innovative design gives you many advantages. You will only need one single heat exchanger, where you before normally needed three separate units.

Obviously, this will make the piping at the site easier, and faster, your cabinet or rack can be made much smaller, etc.



Flow -Description.

Channel 2 is divided in two separate chambers. The numbers on the drawings to the left are the different connections. Numbers in a white circle are open and those in a black are closed.

Channel 2.

1. Radiator inlet
2. Radiator outlet.
3. Cold domestic water inlet.
4. Hot tap water outlet
5. Warm water circulation.

The cold domestic water is pre-heated by the outlet from the district water, after passing the radiator heating section.

Channel 1.

6. District heating inlet for radiator section.
7. District heating inlet for domestic hot water.
8. District heating outlet for both sections.

The district heating for radiator is after-cooled by the inlet from (3) the cold domestic water inlet.



District Heating substation, using the DH59, manufactured by Prefab AB.