

## APARTMENT AND LOCAL HEATING NETWORK TRANSFER STATIONS

Each apartment should have heating network stations in order to meet the needs of hot water.

Heating network stations offer compact solutions with domestic water heater and differential pressure controlled heating systems. The device must be tested at the manufacturer's company before usage.

With the help of heating water stations, you do not need to use a hot water pipeline from boiler to flats. However, you do not need a re-circulation pipeline.

Our heating network stations consist of micro plate heat exchangers which are designed against PN16 pressure standards. These micro plate exchangers have a special design to allow better heat transfer with creating turbulence flow.

Standard Plate

Micro Heat Plate



The device must reach 60-70 °C feeding temperature which are expressed before.

All pipes must be stainless steel or copper and gaskets or/and taps must be used for connections.

A protective covering must be provided when necessary.

Apartment and local heating network stations must be produced with differential pressure controlled, connectors and sensors for calorimeters. Heating side must have special design for direct heat production.

There must be a control valve to control differential pressure which is on the radiator link.

Besides this, the system would be balanced and distribution issues would be avoided. Another object of differential control valve is to create more pressure difference in radiator circuit than heat exchanger circuit, by doing this it will be able to rotate heating water into the heat exchanger if there's a demand for utility water. Domestic utility water, should be prepared in the heat exchanger with the help of a thermostatic control valve. Temperature gauge must be inserted into utility water circuit to obtain required temperature. IHPT Controller should help thermostatic valve to turn off, therefore heat exchanger would be prevented from overheating and calcification. It will always keep the temperature hot and stable to provide hot water in a short time.

IHPT Controller, will also balance the hot water circuit, to control pressure difference in heating and radiator circuit. This provides durability and protects the system.

## IHPT CONTROLLER



Technical Parameters:

Nominal Pressure: PN16

Heating circuit temp.: Max.120°C

Min. Domestic Cold Water Pressure:  $P_{min}=0,5$  Bar

Exchanger Material: AISI 316 Stainless Steel

Piping: AISI 316 Stainless Steel

Primary Circuit Pressure Drop: 25-35 Kpa

There should be a pressure reducer and cold water gauge in the cold water connection port if required. Primary-return circuit should be appropriate to mount a calorimeter.(if required)  
Calorimeter and cold water gauge can be mounted inside the system or can be mounted outside.