

The invention relates to flow-through liquid heaters in flats and buildings without centralized heat supply. Heating of liquid, mostly water, is performed with hot gases. Heater has vertical cylindrical body with heat exchange surface inside and flame chamber under it. Heat exchange chamber is formed with placed in vertical positions hollow horizontal discs connected between them with branch pipes. In depressions of heat exchange surface between the discs and flame chamber liquid displacers are installed. Those look like composite ring comprising at least two segments. On the surface of the ring that is in contact with the surface of discs and flame chamber there are upward and radial grooves. Those provide for bended pass of thin layer of water in contact with heat exchange surface. The invention promotes quick heating of water at once after switching on heater.