

An appliance for heating has placed inside a heat-insulated pipeline electric heating elements. The pipeline with the end flanges is coaxially hermetically connected to the cylindrical housing. The electric heating elements are arranged as installed in the housing in concentric positions inductive electric machine with turbine on the shaft of the rotor. The closed windings of the fixed coil of the machine surrounding the poles of the magnetic-conductive cores are placed with formation of the gaps between neighboring in circle closed windings. The total area of the cross-section of those gaps is not less than the cross-section of the pipeline. Between the ends of the pipeline and the housing there are installed bells made of concentric outer and inner cones.