a 2018 0085

The invention relates to refrigeration equipment, in particular to heat exchangers of heat pump installations.
Summary of the invention consists in that the shell-and-coil heat exchanger has a gap between the primary and secondary parts, wherein is placed a cylindrical pipe, adjacent to the heating part of the heat exchanger. Between the cylindrical pipe and the inner pipe of the heat exchanger is placed a block of balls, moved by pushers, located on both sides of the block of balls and controlled by electric drives. The proposed technical solution is characterized in that the heat exchanger loss is reduced in comparison with the prototype.
The technical result, achieved by the application of the invention, consists in that is ensured a high coefficient of thermal efficiency of the heat exchanger by replacing the liquid with a metal with high heat conductivity and heat capacity, the proposed solution can also be used not only in vertical heat exchangers, but also in horizontal ones.

Claims: 2
Fig.: 1