

Heat exchange tube contains a screw swirler located in its cavity, the axis of which coincides with the longitudinal axis of the tube, while the heat exchange tube has transverse roughness elements made in the form of depressions on the outer and corresponding protrusions on the inner surfaces of the heat exchange tube, which are located perpendicular to its longitudinal axis, there is a gap between the screw swirler and the protrusion. On the surface of each turn of the screw swirler, sectors are cut out, the edges of which are bent into the coolant flow. Wherein two adjacent sectors are bent in opposite directions, and a wire spiral is installed in the cavity of the tube, the turns of which are located around the screw swirler, there is a gap between the surface of the tube and the spiral.