

Abstract

The invention relates to a radiator core. A radiator core includes a large number of fins and a large number of tubes. In this invention, several louvers are punched and pressed on the fins. The size and shape of the louvers are designed according to certain requirements. With this design, the fluid flow that comes from the front of the tube will be deflected and guided to move around the tube. The fluid flow will be on the area between the tube and louvers. This will smoothen the fluid movement and make the area behind the tube smaller. As a result of the small area behind the tube, the formation of fluid swirls can be prevented. Fluid swirls contain hot fluid and reduce the heat exchange efficiency. The present invention on the new louvers is proven to be able to prevent fluid swirls from forming and effectively utilize the tube area, thus improving heat exchange efficiency of the radiator.