

Heat exchanger modeling for cummins engine (coil copper tube)

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Abstrak

This report deals with the heat exchanger modeling for the Cummins engine. The engine is used in dual fuel project that ongoing at Queensland University of Technology, interested in developing and optimizing a dual fuel engine developed by Uli Kruger. The design being calculated and designed to achieved appropriate heat exchanger that will be used at the engine. The heat exchanger need to provide sufficient heat transfer energy that required to vaporize the ethanol. The limited space that available to install the heat exchanger also needs to be considered. To overcome the requirement, student tried to calculate and design a copper tube coil heat exchanger. Beside heat exchanger, this report also determines the hazard and safety issues not only during the dual fuel engine test campaign but also when services and modification are carry out.