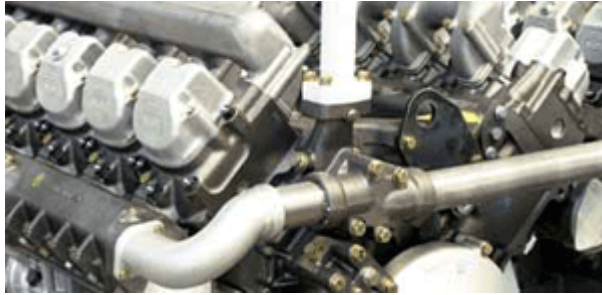


Cooling of high pressure air and gas with water as cooling medium

The problem

The aim of compressing air is to increase the ability of the air to perform work. This ambition is counteracted by the temperature increase of the air during the compression phase. When the air is cooled, its density increases and hence its ability to perform work. The efficiency of the system is increased and thus better operating economy is achieved.



In large gas motors is the gas flow large and a low pressure drop in the intercooler is critical for the overall motor performance.

The intercooler is facing rapid temperature changes and large mechanical stress including vibrations and high pressure.

The cooling medium in intercoolers for big gas motors is water and mostly in two steps: Pre-cooling with water from the motor cooling system and After-cooling with low temperature water.

The solution - AirCross with nickel brazing

Due to its compact design with extremely large heat transfer surface combined with its undefeated mechanical strength is AirCross 21 the optimal intercooler for cooling with water as cooling medium.