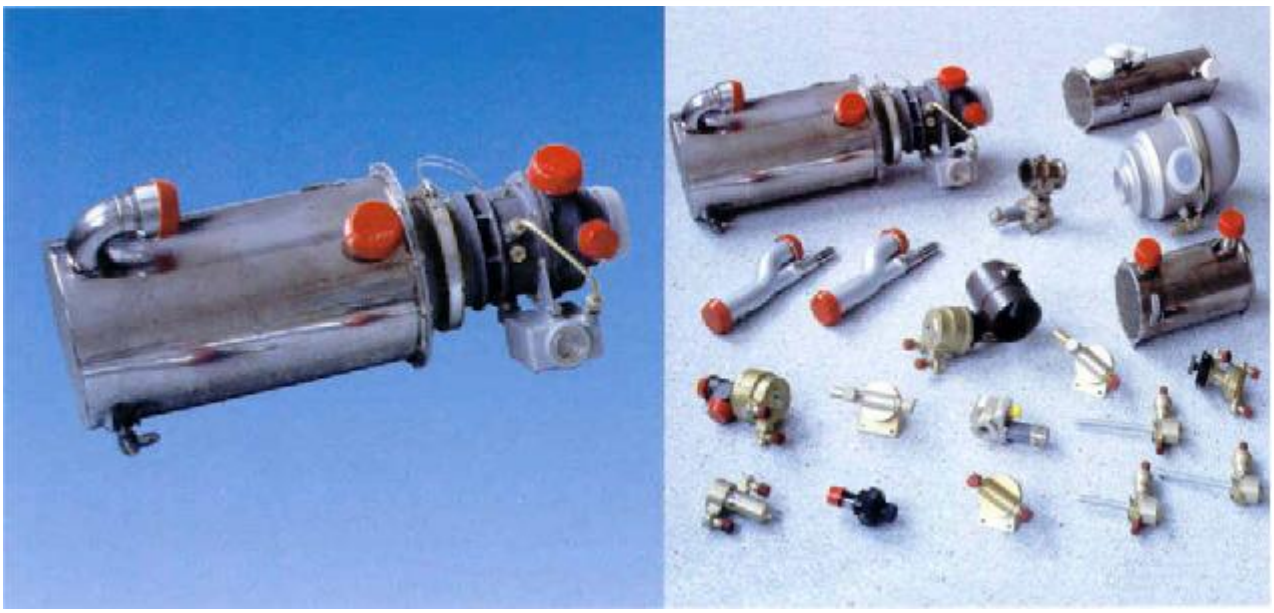
HEAT EXCHANGER LUN 5675.52-8
TURBOCOOLER LUN 5680.5-8



The turbocooler is a device designed for cooling the air supplied into the aircraft cockpit from the jet engine compressor via the air/air heat exchanger. Besides cooling of the aircraft cockpit, the expansion turbine of the turbocooler drives the turboblower, which suctions the atmospheric air through the heat exchanger.

Technical Data

Working medium	Hot pressured air/air
Max. pressure at the turbine and exchanger inlet	0.64 MPa
Max. pressure at the turbine outlet	0.16 MPa
Max. temperature at the turbine/heat exchanger inlet	+95 °C/+260 °C
Max. speed of turbocooler	75 000 rpm
Air flow with temperature 89 °C and pressure 0.127 at the turbine outlet	0.178 $kg.s^{-1}$
Temperature gradient	min. 255 °C
Flow of cockpit air	0.178 $kg.s^{-1}$
Working environment	-60°C to +80 °C
Weight (exchanger/turbocooler)	9.3kg/4.3 kg

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Dimensions (mm)