

Heat Exchangers

Hot Gas Cooler type HGW

Description

The HGW Tube Coil Heat Exchangers consist of one or two tube coils from copper, which are brazed into a cylindrical cupro-nickel shell. The ends of the tube coils can be connected directly with the tubing outside the shell. By this design a brazing seam between tube and shell side - e. g. refrigerant/oil mixture and domestic water - is avoided.



The hot gas flows on the shell side of the HGW Tube Coil Heat Exchanger. This hot gas, dependent on intended application, cools down or condenses on the extended outer surface of the fin tube coils. The cooling medium to be heated flows in the tube coil according to the counter flow principle, thus heating to above the condensing temperature of the refrigerant.

Application

HGW Tube Coil Heat Exchangers are mainly installed in:

- Refrigeration units
 - Heat pumps
 - Heat recovery units
 - Air-conditioner cabinets
 - Intermediate heat exchangers
- and take advantage of the superheat of the hot gas (superheated refrigerant vapour) prior to the condenser. They are suitable for heating of all kinds of domestic water.

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Application

	Hot gas / condensing circuit	Cooling circuit
Medium	Refrigerant	Water, water- glycol mixtures
Max. flow rate (dependent on type)		1,050 l/h
Max. operating pressure	23.5 bar	10 bar
Max. operating temperature	140 °C	90 °C
Approx. capacity	4.5 - 17 kW	

Materials

Shell	CuNi10Fe1Mn
Finned tube coils	Cu-DHP
Connection fittings	Cu-DHP

Approvals

Schmöle is in possession of a certified Quality Management System to DIN EN ISO 9001 and of an approval to Pressure Equipment Directive (PED) 97/23/EC.