Coaxial Condenser type K

Description

Truco® High Performance Coaxial Condensers made by Schmöle are distinguished by a special design of the flow path. Furthermore, the counterflow principle for improved heat transfer is applied. It permits an extensive exploitation of the superheat of the hot refrigerant vapour and a subcooling of the liquid refrigerant.

The superheated refrigerant vapour flowing in the free space between the outer shell tube and the finned inner tubes cools down firstly and then condenses at the outside surface of the finned tubes. The condensate thus developed flows to the free space at the bottom of the system.

The cooling medium, e. g. the domestic or central heating water to be heated, flows in the inner tubes according to the counterflow principle, whereby, together with the exploitation of superheat, high water outlet temperatures - possibly above the condensing temperature - and a thorough subcooling of the condensate are obtained.

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Application

Truco® High Performance Coaxial Condensers are used for cooling and condensation of refrigerants in:

- Heat pumps
- Refrigeration and air-conditioning units
- Heat recovery units
- Air-conditioner cabinets
- Temperature stabilizers

	Condensing circuit	Cooling circuit
Medium	Refrigerant	Water
Max. flow rate (dependent on type)		6,000 l/h
Max. operating pressure	23.5 bar	16 bar
Max. operating temperature	140 °C	90 °C
Approx. capacity	3.5 - 56 kW	

Materials

	Copper design	Cupro-nickel design
Shell tube	Cu-DHP	Cu-DHP
Condensing tubes	Cu-DHP	CuNi10Fe1Mn
Connection fittings condensing circuit	Cu-DHP	Cu-DHP
Connection fittings refrigerant circuit	Cu-DHP	CuNi10Fe1Mn

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.

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