

## Heat Exchangers

### Coaxial Evaporators type VS

#### Description

For a long time economic and efficient evaporators have been equipped with finned tubes or tubes with extended surfaces, resulting in a greatly improved heat transfer from the tube wall to the evaporating refrigerant.

The optimum heat transfer of the Truco<sup>®</sup> Coaxial Evaporators made by Schmöle is achieved by the application of high performance enhanced surface evaporator tubes and by the correct control of the flow paths on the refrigerant and heating medium sides. Furthermore, the counterflow heat exchange principle for improved heat transfer is applied.

The evaporating refrigerant counter-flows through the evaporator tubes. By the appropriate adjustment of the expansion valve a superheating of the refrigerant vapour of some degrees is obtained. Therefore, dry refrigerant vapour can always be fed to the compressor.

An approved distribution system ensures that refrigerant is distributed to the individual high performance evaporator tubes and provides high specific evaporating capacity, when compared with traditional systems.



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#### Application

Truco® High Performance Coaxial Evaporators are used for the evaporation of refrigerants in:

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

	Evaporating circuit	Heating circuit
Medium	Refrigerant	Water
Max. flow rate (dependent on type)		5,200 l/h
Max. operating pressure	23.5 bar	16 bar
Max. operating temperature	140 °C	90 °C
Approx. capacity	8 - 57 kW	

#### Materials

	Copper design	Cupro-nickel design
Shell tube	Cu-DHP	CuNi10Fe1Mn
Evaporator tubes	Cu-DHP	CuNi10Fe1Mn
Connection fittings refrigerant circuit	Cu-DHP	Cu-DHP
Connection fittings heating 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.