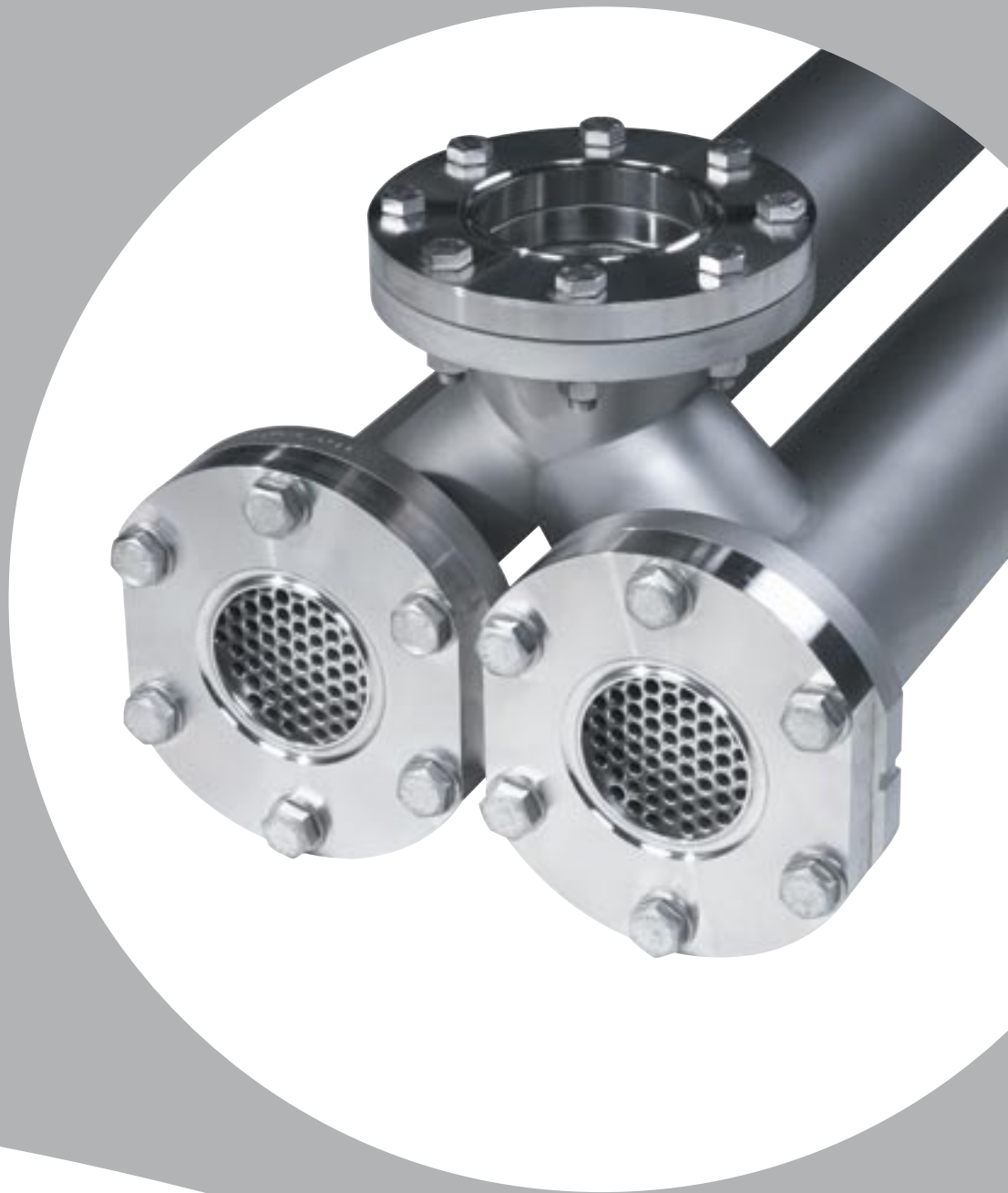


VARITUBE[®] HS

High Performance Hairpin Heat Exchanger

 Innovative Engineering –
Quality in Line.





VARITUBE® HS

Type	H = 1,500 mm		Weight empty (kg)	Product	Connections		Volume (l)	
	B	T			Steam	Condensate	Product side	Shell side
VT HS 19-1,5	300	220	46	DN 50	DN 40	DN 25	2.75	9.00
VT HS 37-1,5	286	240	61	DN 50	DN 50	DN 25	5.50	9.80
VT HS 55-1,5	300	340	91	DN 65	DN 65	DN 40	8.30	18.50
VT HS 74-1,5	426	380	131	DN 80	DN 80	DN 40	11.50	26.00
VT HS 109-1,5	470	440	158	DN 100	DN 125	DN 50	17.00	40.00

Application

The VARITUBE® HS (VT HS) heat exchanger is mainly used for heating of CIP media and hot water generation for volume flow rates of up to 60 m³/h.

Type	Flow rate [m³/h]	Pressure drop [kPa]	Max. heat load [kW]	Delta T (K)
VT HS 19-1,5	3.5–10.5	8–60	450	80–37
VT HS 37-1,5	7.0–20.5	10–70	880	80–37
VT HS 55-1,5	10.0–30.0	10–80	1,290	80–37
VT HS 74-1,5	13.5–41.0	12–100	1,760	80–37
VT HS 109-1,5	20.0–60.0	15–120	2,575	80–37

Performance data relating to the final heating temperature of 85° C and a steam pressure of 3.0 barg (143° C)

Design

VARITUBE® HS – a tubular heat exchanger which guides the product through several inner tubes, which are bent around 180°. The heat carry-

ing medium flows in the surrounding shell. This design allows to compensate for the different thermal expansion between shell and inner tube bundle caused by high temperature differences.

Technical Data

Materials

- Inner tubes: AISI 316Ti (1.4571)
- Shell: AISI 304 (1.4301)
- Gaskets: EPDM

Connections

- Product side: hygienic flanges
- Medium side: flanges acc. to DIN 2633, PN 16

Operating temperature/pressure

- Inner tubes: 150° C/23 bar
- Shell: 190° C/12 bar

Further characteristics of the VT HS

- Fully welded hairpin version
- High thermal performance
- Vertical version
- Counterflanges included in the scope of supply
- Stainless steel air gap insulation included in the scope of supply



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