



Subject to modifications.

# Tubular Heat Exchanger

## CIP Heater & Hot Water Units

### GEA VARITUBE® HS

GEA VARITUBE® HS heat exchangers feature high thermal performance at average volume flow rates of up to 60 m<sup>3</sup>/h.

- Inner tubes installed in U-shape (hairpin) configuration

### GEA VARITUBE® E

High performance versions for use with heat pump water are also available.

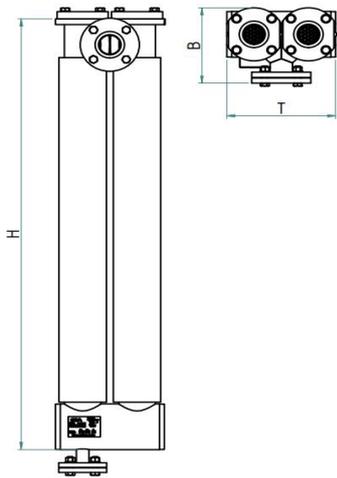
GEA VARITUBE® E heat exchangers are optimized to process high volume flow rates of up to 220 m<sup>3</sup>/h at average thermal capacity.

- Available in tube lengths of 2,000 mm or 3,000 mm
- Hygienic design - allows direct product processing
- Corrugated inner tubes - boost thermal efficiency
- Leakage detection
- Removable tube bundle

### Included for both as standard:

- EHEDG-certified gaskets
- TÜV-approved
- Compensation for thermal expansion
- Insulation - air gap with stainless steel shell
- All counter connections

## Technical data | GEA VARITUBE® HS



### Materials

- Inner tubes: AISI 316Ti (1.4571)
- Shell: AISI 316L (1.4404)
- Gaskets: EPDM

### Connections

- Product side: hygienic flanges
- Medium side: flanges acc. to EN 1092-1, PN16

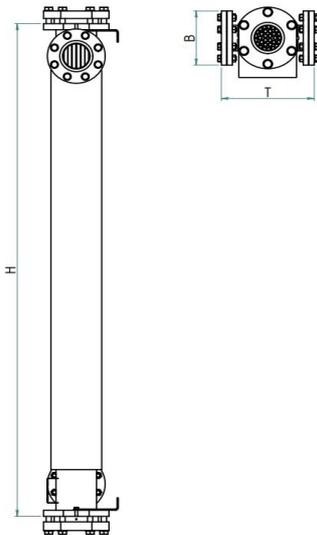
### Operating Temperature | pressure

- Inner tubes: 150° C | 23 bar
- Shell: 185° C | 10 bar

Type	H = 1,500 mm		Weight empty (kg)	Connections			Max. Flow rate [m³/h]	Pressure drop [mbar]	Max. heat load [kW]
	B	T		Product	Steam	Condensate			
VT HS 19 - 1,5	206	300	46	DN 50	DN 40	DN 25	14	1,060	545
VT HS 37 - 1,5	223	286	61	DN 50	DN 50	DN 25	27	1,250	1,060
VT HS 55 - 1,5	263	340	91	DN 65	DN 65	DN 40	40	1,460	1,575
VT HS 74 - 1,5	325	426	131	DN 80	DN 80	DN 40	53	1,640	2,115
VT HS 109 - 1,5	369	470	158	DN 100	DN 125	DN 50	80	2,140	3,120

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

## Technical data | GEA VARITUBE® E



### Materials

- Inner tubes: AISI 316Ti (1.4571)
- Shell: AISI 316L (1.4404)
- Gaskets: EPDM

### Connections

- Product side: hygienic flanges
- Medium side: flanges acc. to EN 1092-1, PN16

### Operating Temperature | pressure

- Inner tubes: 150° C | 23 bar
- Shell: 185° C | 10 bar

Type	H = 2,000 mm		Weight empty (kg)	Connections			Max. Flow rate [m³/h]	Pressure drop [mbar]	Max. heat load [kW]
	B	T		Product	Steam	Condensate			
VT E 7 - 2,0	150	216	33	DN 40	DN 40	DN 40	11.5	430	175
VT E 19 - 2,0	185	250	42	DN 50	DN 50	DN 50	31.5	560	480
VT E 28 - 2,0	185	280	69	DN 65	DN 65	DN 65	46	680	705
VT E 37 - 2,0	200	324	96	DN 80	DN 80	DN 80	60	780	930
VT E 54 - 2,0	220	354	111	DN 100	DN 100	DN 100	90	1,000	1,350
VT E 76 - 2,0	250	428	183	DN 150	DN 125	DN 125	220	1,140	2,330

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

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