

# VARITHERM Plate Heat Exchangers

## A multitude of applications:

**Applications:** Cooling and heating of fluids with particle content (without fibres) up to a particle size of 2 mm. Condensation of vapours; gas cooling and gas dehumidifying.

**Construction:** The VARITHERM plates are combined to form individual plate packages. With this construction it is easy to expand the system. Within each plate package the heat exchanger plates support each other at the metal on metal profile cross points, which ensure the stable behaviour of the plate gap.

**Advantages:** More than 40 different VARITHERM plate types permit an optimum economical solution for nearly any application. A range of materials are available from 1.4301 / AISI 304 to Incolloy, Hastelloy, nickel, tantalum and titanium.

**Economical:** Low investment and maintenance costs ensure a high level of economy.

## *The VARITHERM product range offers the following:*

- Painted frames for all sizes
- High grade steel frames for the sizes VT 04 to VT 80
- Operating pressures up to 25 bar, test pressures up to 32.5 bar
- Plates in various sizes, embossing and materials
- Also available are the sizes VT 40, VT 80 and VT 130 in various length steps with constant plate widths
- Glue free LoCln sealing system with the sizes VT 20 to VT 80
- Gasket materials NBR, EPDM and Viton. Special gaskets such as silicon, Hypalon or butyl available upon request



## Your advantages at a glance:

- Low investment costs due to individual design
- Flexibility due to a simple to extend system
- Space saving due to a compact design

- Low maintenance costs due to easy maintenance and Locin seal changes

		VT04	VT10	VT20	VT405	VT40	VT805	VT80	VT1306	VT130	VT180	VT2508
plate length	mm	549	781	999	1020	1400	1200	1767	1635	2195	2605	2490
plate width	mm	128	215	337	430	426	615	615	812	812	995	1210
max. volume flow	m <sup>3</sup> /h	10	35	90	220	220	550	550	1200	1200	2200	3600
max. connection size	painted frame	DN 32	DN 50	DN 80	DN 125	DN 125	DN 200	DN 200	DN 300	DN 300	DN 400	DN 500
	stainless steel frame	DN 32	DN 50	DN 65		DN 100		DN 100				
max. working pressure	bar	16	16	25	12	25	12	25	12	16	16	10
frames	painted	•	•	•	•	•	•	•	•	•	•	•
	stainless steel clad			•		•		•				
	solid stainless steel	•	•	•								
plate material	1.4301/ AISI 304					•		•				
	1.4401/ AISI 316	•	•	•	•	•	•	•	•	•	•	•
	1.4439/ AISI 317			•		•		•				
	1.4547/ 254 SMO			•		•		•				
	1.4539/ AISI 904L			•		•		•				
	Hastelloy C-276			•		•		•				
	Titan	•	•	•	•	•	•	•	•	•	•	•

Further material combinations available upon request!

### GEA Ecoflex GmbH

For more than 75 years, GEA Ecoflex has been developing customer-oriented and cost-optimised plate heat exchanger solutions for the following fields of application:

- HVAC
- refrigeration
- sugar
- chemical
- paper
- food
- life science
- marine
- power

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