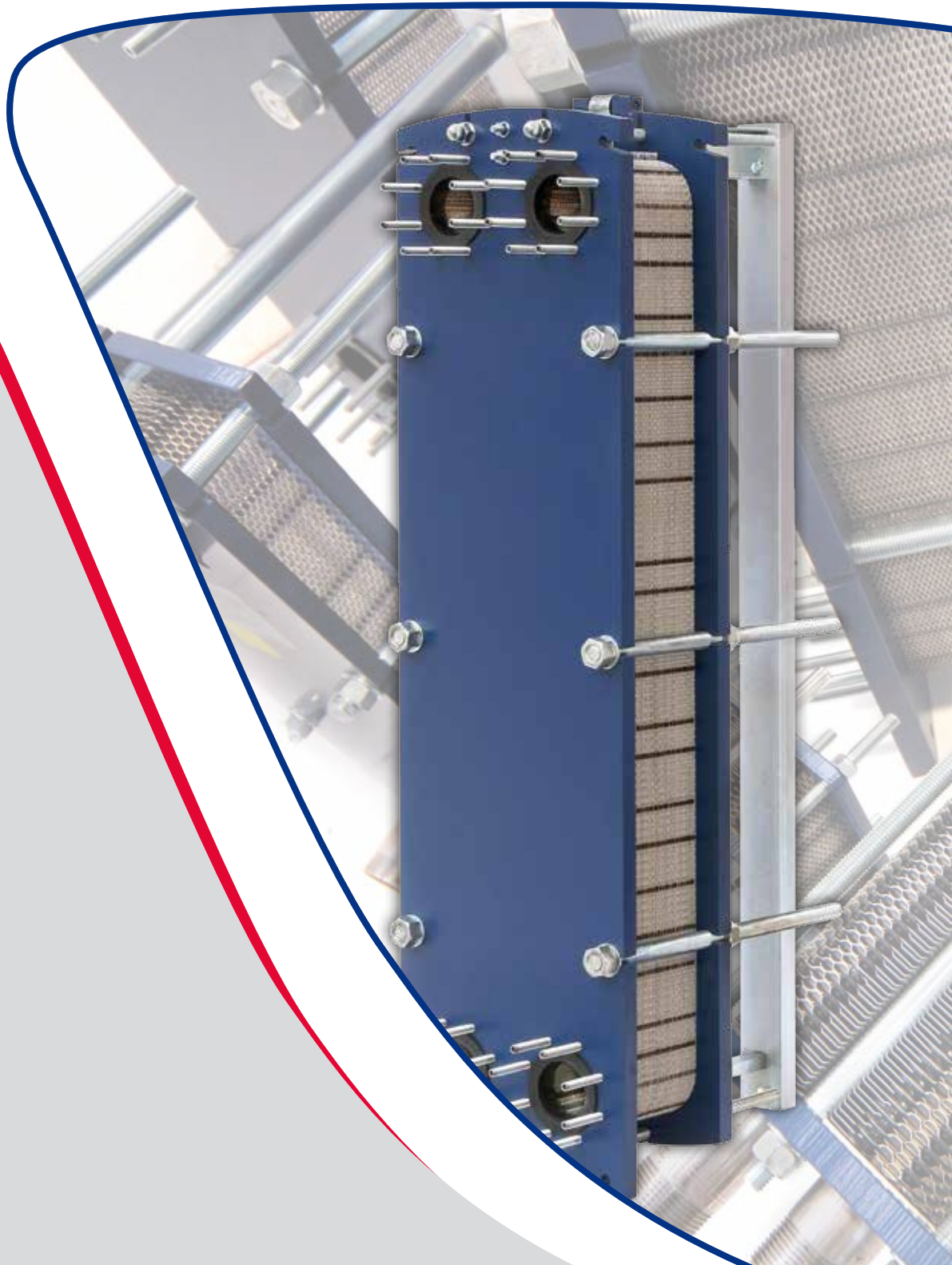


Gasketed Heat Exchanger



VAU Thermotech GmbH & Co. KG



VAU Thermotech GmbH & Co. KG

We are one of the world's leading specialists and manufacturers in the field of heat transfer. For many years we produce products „made in Germany“. A modern production, latest machines and strict standards make our heat exchangers to what you want: best products that work reliably.

We offer innovative solutions and a large range of heat exchangers: brazed heat exchangers, fully welded hybrid and Bloc heat exchangers as well as gasketed heat exchangers for private and commercial use.



Operating Parameters

Operating conditions

- pressure (g) up to 25 bar temperature up to 180 ° C

Frames

- mild steel, Epoxy painted
- stainless steel frames

Connections

- threaded connections or flanges
- different types and material available

Plates

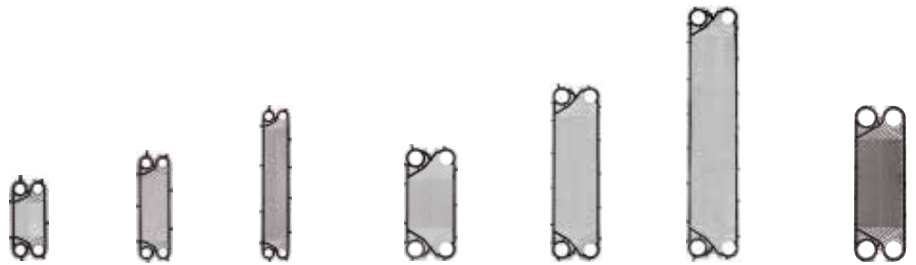
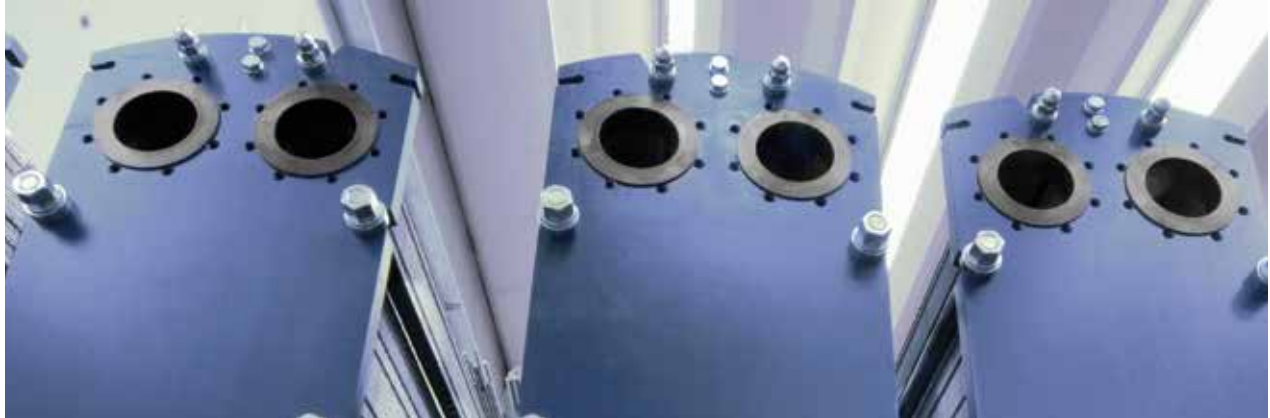
- stainless steel AISI 304 (EN 1.4301)
- stainless steel AISI 316L (EN 1.4404)
- Titanium Grade 1
- Alloy 254 SMO (EN 1.4547)
- different material thickness from 0,4 to 0,7 mm

Gasket material

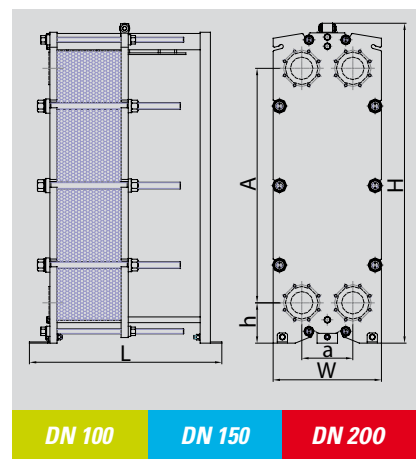
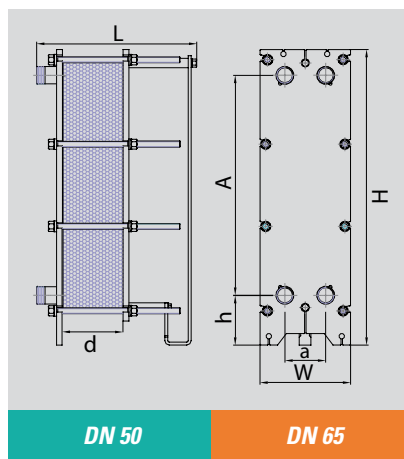
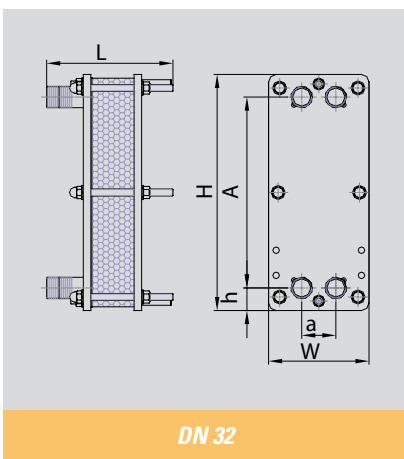
- NBR, EPDM, FPM, HNBR
- gluefree gaskets Gluefree Gasket Plug-In®



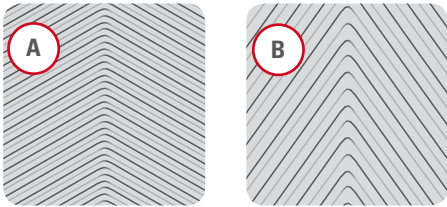
Technical Data



MODEL	DN 32 (1 1/4")			DN 50			DN
	VMG020+	VMG040+	VMG080+	VMG070+	VMG160+	VMG260+	VMG125+
water flow rate max. m ³ /h	19			63			80
heat transfer surface max. m ²	1,6	3,1	8,2	11,8	41,2	63,8	19
tightening quote d mm	2,9 x np + 2			2,9 x np + 2			3,3 x np + 2
plate corrugation angle	A			A/B			
height H mm	320	470	755	720	1050	1395	819
wide W mm	200			310			310
vertical axial dimension A mm	230	380	665	420	750	1095	603
horizontal axial dimension a mm	68			140			123
lower nozzle size from the ground h mm	45			170			128
total lenght L (min - max) mm	251 - 557		251 - 671	407 - 917	407 - 1377		441 - 951



frame sizes



The plates are available in to thermal lenghts.



65 (2 1/2")	DN 100 (4")			DN 150 (6")			DN 200 (8")	
VMG180+	VMG300+	VMG450+	VMG700+	VMG400+	VMG600+	VMG900+	VMG650+	VMG990+
83	240			380			800	730
27	108	193	280	215	355	631	334	534
2,85 x np + 2	3,1			3,1			3,3	3,1
A/B	A/B			A/B			A/B	A/B
1030	1124	1569	2014	1372	1819	2317	1707	2206
392	530			609			810	790
720	705	1150	1595	840	1288	1736	1055	1536
192	250			287			391	396
171,5	198			256			285	285
401 - 871	938 - 2463	941 - 2466		946 - 3256		946 - 4064	1366 - 3377	1357 - 3267



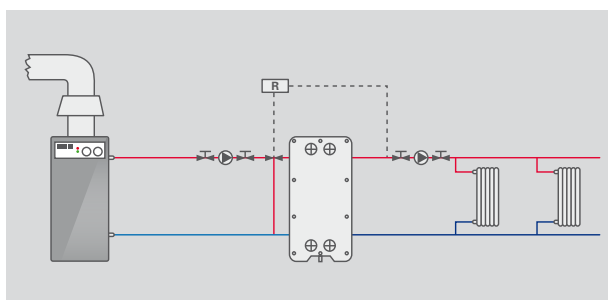
Quickfinder

heating systems for conventional domestic boilers

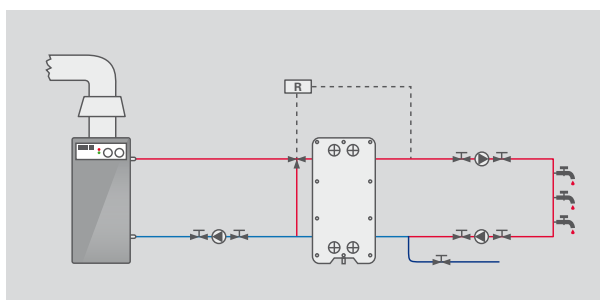
application	boiler - radiator			boiler - radiator		
	primary side inlet-outlet: 80 - 65			primary side inlet-outlet: 80 - 65		
temperature (°C)	secondary side inlet-outlet: 55 - 70			secondary side inlet-outlet: 60 - 70		
max. pressure loss (kPa)	primary side-secondary side: 15 - 20			primary side-secondary side: 15 - 30		
capacity (kW)	flow rate (mc/h)		model	flow rate (mc/h)		model
	prim.	sec.		prim.	sec.	
25	1,47	1,46	VMG040+ 11A00	1,47	2,19	VMG040+ 13A00
35	2,06	2,04	VMG040+ 15A00	2,06	3,07	VMG040+ 17A00
50	2,95	2,91	VMG040+ 19A00	2,95	4,38	VMG040+ 23A00
75	4,42	4,37	VMG040+ 29A00	4,42	6,57	VMG040+ 37A00
100	5,9	5,83	VMG040+ 39A00	5,90	8,76	VMG040+ 51A00
125	7,37	7,28	VMG070+ 21M80	7,37	10,90	VMG070+ 27M85
150	8,85	8,74	VMG070+ 23M70	8,85	13,10	VMG070+ 31M80
200	11,7	11,8	VMG070+ 31M70	11,80	17,50	VMG070+ 41M75
250	14,7	14,6	VMG070+ 39M70	14,70	21,90	VMG070+ 53M75
300	17,7	17,5	VMG125+ 043M65	17,70	26,30	VMG125+ 57M75

heating system as flow heater

application	boiler - domestic hot water			boiler - domestic hot water		
	primary side inlet-outlet: 80 - 60			primary side inlet-outlet: 60 - 40		
temperature (°C)	secondary side inlet-outlet: 10 - 45			secondary side inlet-outlet: 10 - 45		
max. pressure loss (kPa)	primary side-secondary side: 15 - 5			primary side-secondary side: 15 - 5		
capacity (kW)	flow rate (mc/h)		model	flow rate (mc/h)		model
	prim.	sec.		prim.	sec.	
25	1,11	0,61	VMG020+ 07A00	1,10	0,61	VMG020+ 15A00
35	1,55	0,86	VMG020+ 09A00	1,54	0,86	VMG020+ 21A00
50	2,21	1,23	VMG020+ 13A00	2,19	1,23	VMG020+ 27A00
75	3,32	1,84	VMG020+ 17A00	3,29	1,84	VMG040+ 23A00
100	4,42	2,46	VMG020+ 23A00	4,39	2,46	VMG040+ 29A00
125	5,53	3,07	VMG070+ 09B00	5,48	3,07	VMG070+ 15M50
150	6,64	3,69	VMG070+ 11B00	6,58	3,69	VMG070+ 17M50
200	8,85	4,92	VMG070+ 15B00	8,77	4,92	VMG070+ 23M50
250	11,10	6,14	VMG070+ 17B00	11,00	6,14	VMG070+ 27M50
300	13,30	7,37	VMG125+ 17B00	13,20	7,37	VMG125+ 33M70



heating systems for conventional domestic boilers



heating system as flow heater

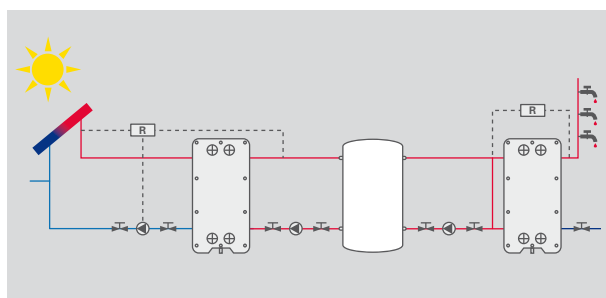
heating systems for domestic hot water with solar thermal energy

application	solar thermal energy - storage tank			storage tank - sanitary water		
temperature (°C)	primary side inlet-outlet: 55 - 35			primary side inlet-outlet: 50 - 30		
	secondary side inlet-outlet: 30 - 50			secondary side inlet-outlet: 10 - 45		
max. pressure loss (kPa)	primary side-secondary side: 10 - 10			primary side-secondary side: 15 - 10		
capacity (kW)	flow rate (mc/h)		model	flow rate (mc/h)		model
	prim.	sec.		prim.	sec.	
25	1,13	1,08	VMG080+ 17A00	1,09	0,61	VMG040+ 17A00
35	1,58	1,52	VMG080+ 21A00	1,53	0,86	VMG040+ 23A00
50	2,26	2,17	VMG080+ 29A00	2,18	1,23	VMG040+ 31A00
75	3,39	3,25	VMG080+ 41A00	3,27	1,84	VMG040+ 43A00
100	4,52	4,33	VMG080+ 53A00	4,37	2,46	VMG040+ 57A00
125	5,65	5,41	VMG160+ 35M90	5,46	3,07	VMG160+ 17M45
150	6,79	6,50	VMG160+ 41M90	6,55	3,69	VMG160+ 19M40
175	7,92	7,58	VMG160+ 47M85	7,64	4,30	VMG160+ 23M45
200	9,05	8,66	VMG160+ 55M85	8,73	4,92	VMG160+ 25M40

water-glycol-mixture 20 %

systems with water/water heat pump

application	heat pump - ground water winter			heat pump - ground water summer		
temperature (°C)	primary side inlet-outlet: 12 - 7			primary side inlet-outlet: 30 - 25		
	secondary side inlet-outlet: 5 - 10			secondary side inlet-outlet: 18 - 23		
max. pressure loss (kPa)	primary side-secondary side: 30 - 30			primary side-secondary side: 30 - 30		
capacity (kW)	flow rate (mc/h)		model	flow rate (mc/h)		model
	prim.	sec.		prim.	sec.	
10	1,72	1,79	VMG080+ 21A00	1,79	1,72	VMG080+ 21A00
15	2,57	2,69	VMG080+ 29A00	2,69	2,57	VMG080+ 29A00
20	3,43	3,59	VMG080+ 37A00	3,59	3,43	VMG020+ 15A00
25	4,29	4,49	VMG080+ 45A00	4,49	4,29	VMG080+ 37A00
30	5,15	5,38	VMG080+ 53A00	5,38	5,15	VMG080+ 53A00
50	8,58	8,97	VMG080+ 87A00	8,97	8,58	VMG080+ 87A00
80	13,7	14,4	VMG160+ 69A00	14,40	13,70	VMG160+ 69A00
100	17,2	17,9	VMG160+ 85A00	17,90	17,20	VMG160+ 85A00
150	25,7	26,9	VMG160+ 131M95	26,90	25,70	VMG160+ 131M95



heating systems for warm water with solar thermal energy

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VAU Thermotech GmbH & Co. KG

- 🏠 An der Schmücke 16
OT Heldringen
D-06577 An der Schmücke
- ☎ Telefon: +49 (0) 34673-1683-00
- 📠 Telefax: +49 (0) 34673-1683-50

- ✉ info@vau-thermotech.de
www.vau-thermotech.de