



Exchanger connection options	
<b>Standard</b>	G 1" - 20mm long
<b>Alternative</b>	G 5/4", Solder
<b>Other</b>	On request
<b>Additional</b>	On rear positions L1 to L4
<b>Studs &amp; Bolts</b>	On request

Insulation options	Example picture
<b>Aluminium coated PU foam</b> Heating applications to +150°C (Peak)	
<b>Self-adhesive rubberised</b> Cooling applications -50 to +105°C	

Mounting options	Example picture
<b>Angled Wall Bracket</b> "L" bracket including strap & screws	

Detachable pipe connection options	Example picture
<b>VER 20</b> From G1" to DN20 weld (2 pcs/set)	
<b>VER 22</b> From G1" to 22 mm solder (2 pcs/set)	
<b>VER 3/4</b> From G1" to 3/4" thread (2 pcs/set)	
<b>VEROR1</b> From G1" to 1" thread - reduction-free (2 pcs/set)	

Amount of plates	10	14	20	24	30	34	40	44	50
Volume Side 1 (l)*	0.12	0.18	0.27	0.33	0.42	0.48	0.57	0.63	0.72
Volume Side 2 (l)*	0.15	0.21	0.30	0.36	0.45	0.51	0.60	0.66	0.75
Max working pressure (bar)	30								
Min / Max temperature (°C)	-196/+200								
PED Class Group 1 (Category)	SEP								
PED Class Group 2 (Category)	SEP								
Plate packet depth L(mm)*	32.2	41.1	54.4	63.3	76.6	85.5	98.8	107.7	121.0
Net Weight Empty (kg)	1.80	2.00	2.40	2.60	3.00	3.20	3.60	3.80	4.20
Heat Transfer Area (m²)	0.14	0.21	0.31	0.38	0.48	0.55	0.65	0.72	0.82

**Where appropriate the following European standards and regulations were used during design and construction:**

97/23/EC (Pressure Equipment Directive)  
 EN 1148 (Water to water heat exchangers for district heating)  
 EN 10272 (Stainless steel bars used for pressure purposes)  
 EN 10028-7 (Stainless steel flat products used for pressure purposes)  
 Please ask your sales partner if you require other standards or certification to be applied.

EN 13445 (Unfired Pressure Vessels )  
 ISO 2768-m (General tolerances class "m")  
 ISO 228-1 ("G" Thread BSP parallel)

©2015 Errors, Omissions and Technical Alterations excepted  
 Connections : 1.4301 (304) / Plates : 1.4404 (316L) / Braze : Cu 99.9%

Sizes in mm unless otherwise shown  
 Cu - Free version also available



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**Scale**  
**M 1:2 (A3)**

Status	Change	Date	Name

Date	Name
Drawn by 24.04.2015	AWU
Checked by 27.04.2015	DRO

**PB5\_STD\_15\_Rev00**

\* Calculated values (final tolerance to ISO 2768-m)