

# **Fusion-bonded plate heat exchangers**

## Technical specifications AlfaNova range

Many of Alfa Laval's fusion-bonded plate heat exchangers are available directly from stock which are shown in this pricelist. If a more customized specification is required we offer a configure to order service. The table below gives an overview of the complete fusion bonded plate heat exchanger range. If you have no accesses to the configuration tool please contact your local Alfa Laval sales representative.

### Product Guide

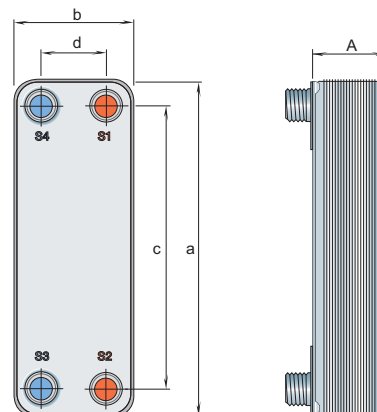
Visit the Alfa Laval Product Guide, a tool available online where you can easily select a fusion-bonded plate heat exchanger suitable for your application.

Visit: <http://productguide.alfalaval.com>

### Alfa Laval Distributors

You can also contact your local Alfa Laval distributor for design assistance and pricing. You can find contact details for Alfa Laval distributors around the world on our Internet page.

Visit: <http://www.alfalaval.com/industries/hvac/channel-partners/>



Measurement instruction



	AlfaNova 14	AlfaNova 27	AlfaNova 52	AlfaNova 76	AlfaNova 400
Channel type	H	H, L	H, L	H, A, E, L	H, L
Max./min. design temperature (°C)	550/196	550/196	550/196	550/196	160/196
Max. design pressure (S3-S4/S1-S2) (bar) *	21/21	27/22	27/22	27/27 (A,E,H) / 19/19 (L)	17/17
Volume/channel (S3-S4/S1-S2) (litres)	0.02	0.05	0.095	0.25 <sup>1</sup> /0.25	0.74
Max. flowrate (S3-S4/S1-S2) (m <sup>3</sup> /h) **	4.6	14	14	37	200
Height, mm (a)	207	310	526	618	990
Width, mm (b)	77	111	111	191	390
Vertical connection distance, mm (c)	172	250	466	519	825
Horizontal connection distance, mm (d)	42	50	50	92	225
Plate pack length, mm (A)	(n x 2.48) + 8	(n x 2.42) + 11	(n x 2.48) + 11	(n x 2.85) + 11 <sup>***</sup>	(n x 2.65) + 14
Weight empty, kg	(n x 0.07) + 0.4	(n x 0.13) + 1	(n x 0.22) + 1.9	(n x 0.49) + 8	(n x 1.4) + 22
Plate material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Connection material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Bounding material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Max. number of plates	50	100	150	150	270
Radiator heating, capacity (kW) <sup>2</sup>	90	400	500	1200	3300
Tap water heating, capacity (kW) <sup>3</sup>	60	180	380	700	2700

\* According to PED

\*\* Water at 5 m/s (connection velocity)

\*\*\* H channel

<sup>1</sup>) E channel 0.18/0.18; A channel 0.18/0.25

<sup>2</sup>) Varies from country to country depending on temperature duty. Given values are for typical district heating installations

<sup>3</sup>) Valid for H-plate

n = number of plates

# Stocked units



## AlfaNova 14

The brazed plate heat exchangers are secured according to DIN ISO9001 certificate. All including components are made in acid proof stainless steel material 1.4401, and fusion bonded with AlfaFusion™ technology using stainless steel material.

The units are manufactured according to European Directive 97/23/EC and therefore pressure tested with air and leakage tested with helium.

Auxiliaries: Insulations, couplings and fastening device.

	<b>PED</b>
Max. design temperature °C	550
Design pressure (S3/S4, S1/S2) at 175°C	21 / 21

HEAT EXCHANGER						Insulation type B	
Model		Article no.	Price	Plate pack dimension (mm) LxWxH	Weight kg/unit	Article no.	Price
<b>Connections: ISO G ¾" externally threaded (A21,A21)</b>							
AlfaNova 14-10H	S	3287050661	<b>581</b>	57 X 77 X 207	1.3	3456119701	<b>35.7</b>
AlfaNova 14-20H	S	3287050662	<b>731</b>	82 X 77 X 207	2.0	3456119702	<b>37.9</b>
AlfaNova 14-30H	S	3287050663	<b>883</b>	106 X 77 X 207	2.7	3456119702	<b>37.9</b>
AlfaNova 14-40H	S	3287050664	<b>1035</b>	131 X 77 X 207	3.4	3456119702	<b>37.9</b>

S = Stock unit

EXTRAS		Article no.	Price	Weight kg/unit	Comment / Dimensions
<b>Screw fittings</b>					
DN15 ¾"; Pipe: SS, Nut: CS (include 2 pcs)	S	3456632801	<b>33.5</b>	0.12	Welding type. Fits A21
Extra gasket fitting for ¾" couplings (include 2 pcs)	S	3456636101	<b>2.2</b>	0.02	Fits A21
<i>For couplings in Brass/CS, see CBH16</i>					
<b>Wall mounting bracket</b>					
Rubber coated clamp, to be assembled around the plate package.	S	3236020425	<b>119</b>	0.5	Not suitable together with insulation.
<b>Insulation type B</b>					
<b>Black, Polypropylene (EPP) without ABS cover (max temperature 110°C)</b>					
Insulation type B: Max 14 plates	S	3456119701	<b>35.7</b>	0.2	
Insulation type B: Max 40 plates	S	3456119702	<b>37.9</b>	0.3	

S = Stock unit



## AlfaNova 27

The brazed plate heat exchangers are secured according to DIN ISO9001 certificate. All including components are made in acid proof stainless steel material 1.4401, and brazed with AlfaFusion™ technology using stainless steel material.

The units are manufactured according to European Directive 97/23/EC and therefore pressure tested with air and leakage tested with helium.

Auxiliaries: Insulations, couplings and fastening device.

	PED
Max. design temperature °C	550
Design pressure (S3/S4, S1/S2) at 175°C	27 / 22

HEAT EXCHANGER						Insulation type A	
Model		Article no.	Price	Plate pack dimension (mm) LxWxH	Weight kg/unit	Article no.	Price
<b>Connections: S1/S2: ISO G 1¼" externally threaded, length 45 mm. S3/S4: ISO G 1" externally threaded, length 45 mm (V22,V24)</b>							
AlfaNova 27-10H	S	3288001188	<b>801</b>	80 X 111 X 310	3.6	3236000881	<b>137</b>
AlfaNova 27-18H	S	3288000763	<b>1012</b>	100 X 111 X 310	4.6	3236000881	<b>137</b>
AlfaNova 27-24H	S	3288000901	<b>1171</b>	114 X 111 X 310	5.4	3236000882	<b>140</b>
AlfaNova 27-34H	S	3288000764	<b>1438</b>	138 X 111 X 310	6.7	3236000882	<b>140</b>
AlfaNova 27-50H	S	3288000970	<b>1862</b>	177 X 111 X 310	8.8	3236000883	<b>142</b>
AlfaNova 27-70H	S	3288000999	<b>2395</b>	225 X 111 X 310	11.4	3236000884	<b>145</b>
AlfaNova 27-100H	S	3287050287	<b>3321</b>	298 X 111 X 310	15.4	3236000886	<b>151</b>
<b>Two pass - Six connections pre/post heater design</b>							
AlfaNova 27-50H	S	3288001270	<b>2138</b>	217 X 111 X 310	9.1	3236000883	<b>142</b>
AlfaNova 27-70H	S	3288001271	<b>2695</b>	265 X 111 X 310	11.7	3236000884	<b>145</b>

S = Stock unit

EXTRAS		Article no.	Price	Weight kg/unit	Comment / Dimensions
<b>Screw fittings</b>					
DN20 1"; Pipe: SS, Nut: CS, gasket included (include 2 pcs)	S	3456632301	<b>48.7</b>	0.32	Welding type. Fits V22.
DN25 1¼"; Pipe: SS, Nut: CS, gasket included (include 2 pcs)	S	3456632001	<b>67.1</b>	0.43	Welding type
DN32 1¼"; Pipe: SS, Nut: CS, gasket included (include 2 pcs)	S	3456632901	<b>81.2</b>	0.43	
Extra gasket fitting for 1" couplings (include 2 pcs)	S	3456636001	<b>2.8</b>	0.02	Fits B21, V22
Extra gasket fitting for 1¼" couplings (include 2 pcs)	S	3456635901	<b>3.5</b>	0.02	Fits V24
<i>For couplings in Brass/CS, see CB30</i>					
<b>Adjustable foot</b>					
Adjustable foot Max 60 plates	S	3456089801	<b>200</b>	4.3	Fits all connections.
Adjustable foot Max 100 plates	S	3456089802	<b>216</b>	4.3	Height adjustable from 400 mm to 600 mm.
Adjustable foot Max 150 plates	S	3456089803	<b>216</b>	4.3	
<b>Wall mounting bracket</b>					
Rubber coated clamp, to be assembled around the plate package.	S	3236020426	<b>123</b>	0.7	Not suitable together with insulation.
<b>Floor support kit</b>					
Max 30 plates. Includes 2 feet. The feet are assembled together in a U-shape. Mounted on the plate package.	S	3456853201	<b>40</b>	0.6	
Max 150 plates. Includes 4 feet. The feet are assembled together in a U-shape. Mounted on the plate package.	S	3456853202	<b>80.1</b>	0.6	
<b>Insulation type A</b>					
<b>Polyurethane with blue ABS cover (max temperature 130°C)</b>					
Insulation type A: Max 18 plates	S	3236000881	<b>137</b>	0.7	
Insulation type A: Max 38 plates	S	3236000882	<b>140</b>	0.8	
Insulation type A: Max 58 plates	S	3236000883	<b>142</b>	0.9	
Insulation type A: Max 76 plates	S	3236000884	<b>145</b>	1.0	
Insulation type A: Max 96 plates	S	3236000885	<b>148</b>	1.2	
Insulation type A: Max 114 plates	S	3236000886	<b>151</b>	1.3	
<b>Insulation type B</b>					
<b>Black, Polypropylene (EPP) without ABS cover (max temperature 110°C)</b>					
Insulation type B: Max 24 plates	S	3456104601	<b>34.6</b>	0.2	
Insulation type B: Max 48 plates	S	3456104602	<b>36.8</b>	0.2	
Insulation type B: Max 98 plates	S	3456104603	<b>40</b>	0.3	

S = Stock unit



## AlfaNova 52

The brazed plate heat exchangers are secured according to DIN ISO9001 certificate. All including components are made in acid proof stainless steel material 1.4401, and brazed with AlfaFusion™ technology using stainless steel material.

The units are manufactured according to European Directive 97/23/EC and therefore pressure tested with air and leakage tested with helium.

Auxiliaries: Insulations, couplings and fastening device.

	<b>PED</b>
Max. design temperature °C	550
Design pressure (S3/S4, S1/S2) at 175°C	27 / 22

HEAT EXCHANGER						Insulation type A	
Model		Article no.	Price	Plate pack dimension (mm) LxWxH	Weight kg/unit	Article no.	Price
<b>Connections: S1/S2: ISO G 1¼" externally threaded, length 45 mm. S3/S4: ISO G 1" externally threaded, length 45 mm (V22, V24)</b>							
AlfaNova 52-10H	S	3288001442	<b>1140</b>	81 X 111 X 526	5.4	3236000892	<b>154</b>
AlfaNova 52-20H	S	3288001139	<b>1537</b>	106 X 111 X 526	7.5	3236000892	<b>154</b>
AlfaNova 52-30H	S	3288001047	<b>1930</b>	130 X 111 X 526	9.7	3236000892	<b>154</b>
AlfaNova 52-40H	S	3288001265	<b>2325</b>	155 X 111 X 526	11.9	3236000893	<b>157</b>
AlfaNova 52-50H	S	3287050288	<b>2719</b>	180 X 111 X 526	14.0	3236000893	<b>157</b>
AlfaNova 52-60H	S	3288001266	<b>3113</b>	205 X 111 X 526	16.2	3236000894	<b>161</b>
AlfaNova 52-80H	S	3287050289	<b>3903</b>	254 X 111 X 526	20.5	3236000895	<b>164</b>
AlfaNova 52-100	S	3287050290	<b>4691</b>	304 X 111 X 526	25.1	3236000896	<b>168</b>
<b>Two pass - Six connections pre/post heater design</b>							
AlfaNova 52-60L	S	3287051200	<b>3512</b>	244 X 111 X 526	16.6	3236000894	<b>161</b>
AlfaNova 52-80L	S	3287051201	<b>4346</b>	293 X 111 X 526	21.1	3236000895	<b>164</b>

S = Stock unit

EXTRAS		Article no.	Price	Weight kg/unit	Comment / Dimensions
<b>Screw fittings</b>					
DN20 1"; Pipe: SS, Nut: CS, gasket included (include 2 pcs)	S	3456632301	<b>48.7</b>	0.32	Welding type. Fits V22.
DN25 1¼"; Pipe: SS, Nut: CS, gasket included (include 2 pcs)	S	3456632001	<b>67.1</b>	0.43	Welding type
DN32 1¼"; Pipe: SS, Nut: CS, gasket included (include 2 pcs)	S	3456632901	<b>81.2</b>	0.43	
Extra gasket fitting for 1" couplings (include 2 pcs)	S	3456636001	<b>2.8</b>	0.02	Fits B21, V22
Extra gasket fitting for 1¼" couplings (include 2 pcs)	S	3456635901	<b>3.5</b>	0.02	Fits V24
<i>For couplings in Brass/CS, see CB60</i>					
<b>Adjustable foot</b>					
Adjustable foot Max 60 plates	S	3456089801	<b>200</b>	4.3	Fits all connections. Height adjustable from 400 mm to 600 mm.
Adjustable foot Max 100 plates	S	3456089802	<b>216</b>	4.3	
Adjustable foot Max 150 plates	S	3456089803	<b>216</b>	4.3	
<b>Wall mounting bracket</b>					
Rubber coated clamp, to be assembled around the plate package.	S	3236020427	<b>134</b>	1.0	Not suitable together with insulation.
<b>Floor support kit</b>					
Max 30 plates. Includes 2 feet and 2 nuts. The nuts are mounted on the thread on the connections, and fixes the feet.	S	162965401	<b>69</b>	0.6	Fits ONLY V22, V22 connections
Max 150 plates *) Includes 2 feet. The feet are assembled together in a U-shape. Mounted on the plate package. *) Have to be ordered together with 162965401	S	162965402	<b>39.2</b>	0.6	
<b>Insulation type A</b>					
<b>Polyurethane with blue ABS cover (max temperature 130°C)</b>					
Insulation type A: Max 38 plates	S	3236000892	<b>154</b>	1.0	
Insulation type A: Max 58 plates	S	3236000893	<b>157</b>	1.3	
Insulation type A: Max 76 plates	S	3236000894	<b>161</b>	1.5	
Insulation type A: Max 96 plates	S	3236000895	<b>164</b>	1.7	
Insulation type A: Max 114 plates	S	3236000896	<b>168</b>	2.0	
Insulation type A: Max 144 plates	S	3236000897	<b>174</b>	2.3	
<b>Insulation type B</b>					
<b>Black, Polypropylene (EPP) without ABS cover (max temperature 110°C)</b>					
Insulation type B: Max 28 plates	S	3456104701	<b>43.3</b>	0.3	
Insulation type B: Max 56 plates	S	3456104702	<b>61.7</b>	0.5	

S = Stock unit



## AlfaNova 76

The brazed plate heat exchangers are secured according to DIN ISO9001 certificate. All including components are made in acid proof stainless steel material 1.4401, and brazed with AlfaFusion™ technology using stainless steel material.

The units are manufactured according to European Directive 97/23/EC and therefore pressure tested with air and leakage tested with helium.

Auxiliaries: Insulations, couplings and fastening device.

	PED
Max. design temperature °C	550
Design pressure (S3/S4, S1/S2) at 175°C	27 / 27

HEAT EXCHANGER						Insulation type A	
Model		Article no.	Price	Plate pack dimension (mm) LxWxH	Weight kg/unit	Article no.	Price
<b>Connections: ISO G 2" externally threaded, length 48 mm. Stud bolts for feet included</b>							
<b>H-channels (B23, B23)</b>							
AlfaNova 76-20H	S	3287050291	<b>2744</b>	116 X 191 X 618	19.2	3236000901	<b>176</b>
AlfaNova 76-30H	S	3287050292	<b>3406</b>	145 X 191 X 618	24.1	3236000901	<b>176</b>
AlfaNova 76-40H	S	3288000893	<b>4072</b>	73 X 191 X 618	29	3236000902	<b>185</b>
AlfaNova 76-50H	S	3287050293	<b>4735</b>	202 X 191 X 618	34.1	3236000902	<b>185</b>
AlfaNova 76-70H	S	3287050294	<b>6059</b>	259 X 191 X 618	43.8	3236000903	<b>194</b>
AlfaNova 76-80H	S	3287050295	<b>6722</b>	287 X 191 X 618	48.6	3236000903	<b>194</b>

S = Stock unit

EXTRAS		Article no.	Price	Weight kg/unit	Comment / Dimensions
<b>Screw fittings</b>					
DN50 2" Pipe: SS, Nut: CS, gasket included (include 2 pcs)	S	3456631701	<b>171</b>	1.1	Welding type. Fits B23.
DN40 2" Pipe: SS, Nut: CS, gasket included (include 2 pcs)	S	3456633001	<b>171</b>	1.1	Fits B23. Welding type
Gasket for 2" fitting (include 2 pcs)	S	3456639901	<b>5.2</b>	0.02	
<i>For couplings in Brass/CS, see CB110/CB112</i>					
<b>Adjustable foot</b>					
Adjustable foot Max 60 plates	S	3456090801	<b>238</b>	4.5	Fits all connections. Height adjustable from 400 mm to 600 mm.
Adjustable foot Max 90 plates	S	3456090804	<b>238</b>	4.5	
Adjustable foot Max 120 plates	S	3456090802	<b>238</b>	4.5	
Adjustable foot Max 150 plates	S	3456090803	<b>238</b>	4.5	
<b>Floor support kit</b>					
Max 30 plates. Includes 2 feet. The feet are assembled together in a U-shape. Mounted on the plate package.	S	3456853301	<b>57.3</b>	2.3	
Max 150 plates. Includes 4 feet. The feet are assembled together in a U-shape. Mounted on the plate package.	S	3456853302	<b>115</b>	1.7	
<b>Rigid foot</b>					
Rigid foot	S	3456544501	<b>206</b>	3.8	Includes two feet. Note that the unit must be ordered with stud bolts.
<b>Insulation type A</b>					
<b>Polyurethane with blue ABS cover (max temperature 130°C)</b>					
Insulation type A: Max 30 plates	S	3236000901	<b>176</b>	1.3	
Insulation type A: Max 60 plates	S	3236000902	<b>185</b>	1.7	
Insulation type A: Max 90 plates	S	3236000903	<b>194</b>	2.1	
Insulation type A: Max 120 plates	S	3236000904	<b>202</b>	2.6	
Insulation type A: Max 150 plates	S	3236000905	<b>211</b>	2.9	

S = Stock unit