



# Alfa Laval Cooling insulation

## Accessories gasketed plate-and-frame heat exchangers

Alfa Laval Cooling insulation is used to thermally insulate gasketed plate-and-frame heat exchangers with operating temperatures between  $-50^{\circ}\text{C}$  ( $-58^{\circ}\text{F}$ ) to  $80^{\circ}\text{C}$  ( $176^{\circ}\text{F}$ ). The insulation saves energy and reduces condensation and the formation of ice.

### Applications

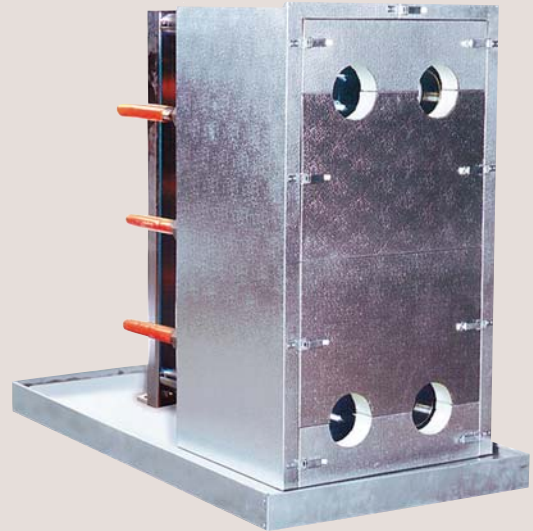
- Biotech and Pharmaceutical
- Chemicals
- Energy and Utilities
- Food and Beverages
- Home and Personal care
- HVAC and Refrigeration
- Machinery and Manufacturing
- Marine and Transportation
- Mining, Minerals and Pigments
- Pulp and Paper
- Semiconductor and Electronics
- Water and Waste treatment

### Benefits

- Saves energy
- Prevents condensation and formation of ice
- Easy to install

### Design

Alfa Laval Cooling insulation is available for some of the heat exchangers in the Industrial line and the Industrial semi-welded line. The cooling insulation sections (panels) are designed to ensure simple assembly and disassembly. The panels are equipped with connecting spring locks in galvanized steel.

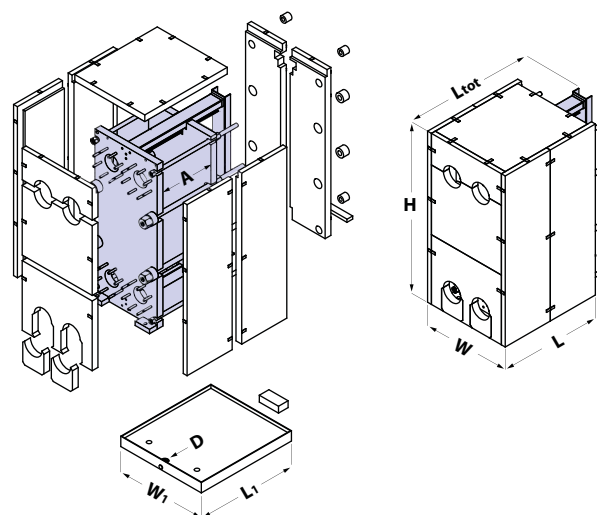


## Approximate dimension

Measurements in mm (inch).

Product	L <sup>1</sup>	W	H <sup>2</sup>	W <sub>1</sub>	L <sub>1</sub>
M6-FM <sup>3</sup> M6-FG <sup>3</sup>	A + 350 (13.78)	460 (18.11)	1042 (41.02)	480 (18.90)	B + 166 (6.53)
TL6-FM <sup>3</sup> TL6-FG <sup>3</sup> TL6-FD <sup>3</sup>	A + 380 (14.96)	480 (18.90)	1432 (56.38)	480 (18.90)	B + 166 (6.53)
M10-FM <sup>3</sup> M10-FG <sup>3</sup> M10-FD <sup>3</sup> M10-FT <sup>3</sup>	A + 475 (18.70)	600 (23.62)	1202 (47.32)	700 (27.56)	B + 290 (11.41)
M10-FX <sup>3</sup>	A + 595 (23.42)	600 (23.62)	1257 (49.49)	700 (27.56)	B + 150 (5.90)
M10-REF <sup>3</sup>	A + 350 (13.78)	600 (23.62)	1120 (44.09)	630 (24.80)	B + 150 (5.90)
TL10-FM	A + 380 (14.96)	610 (24.01)	2072 (81.57)	700 (27.56)	A + 740 (29.13)
TL10-FG	A + 410 (16.14)	610 (24.01)	2112 (83.15)	700 (27.56)	A + 740 (29.13)
TL10-FD	A + 450 (17.72)	640 (25.20)	2112 (83.15)	730 (28.74)	A + 740 (29.13)
M15-FM	A + 360 (14.17)	740 (29.13)	2062 (81.18)	770 (30.31)	A + 660 (25.98)
M15-FG	A + 440 (17.32)	800 (31.50)	2062 (81.18)	820 (32.28)	A + 740 (29.13)
M15-FD	A + 500 (19.68)	820 (32.28)	2162 (85.12)	850 (33.46)	A + 800 (31.50)
MK15-FG MK15-FD MK15-FT MK15-FGR MK15-FDR	A + 600 (23.62)	810 (31.89)	1607 (63.27)	840 (33.07)	A + 725 (28.54)
TL15-FM	A + 350 (13.78)	760 (29.92)	2872 (113.07)	800 (31.50)	A + 650 (25.59)
TL15-FG	A + 530 (20.87)	820 (32.28)	2872 (113.07)	840 (33.07)	A + 830 (32.68)
TL15-FD					
TL15-FS					
T20-FG	A + 480 (18.90)	910 (35.83)	2287 (90.04)	950 (37.40)	A + 750 (29.53)
T20-FD	A + 530 (20.87)	930 (36.61)	2332 (91.81)	970 (38.19)	A + 750 (29.53)
T20-FS					
TK20-FG	A + 495 (19.49)	870 (34.25)	1642 (64.64)	910 (35.83)	A + 615 (24.21)
TK20-FD	A + 525 (20.67)	915 (36.02)	1642 (64.64)	955 (37.60)	A + 645 (25.39)
TK20-FX	A + 610 (24.01)	915 (36.02)	1677 (66.02)	955 (37.60)	A + 730 (28.74)
MX25-FG MX25-FD MX25-FS	A + 580 (22.83)	1060 (41.73)	3202 (126.06)	1100 (43.31)	A + 880 (34.64)
MX25-FMS MX25-FGS	A + 490 (19.29)	1060 (41.73)	2722 (107.16)	1090 (42.91)	A + 790 (31.10)
TL35-FM	A + 550 (21.65)	1310 (51.57)	3252 (128.03)	1350 (53.15)	A + 850 (33.46)
TL35-FG	A + 605 (23.82)	1310 (51.57)	3332 (131.18)	1350 (53.15)	A + 905 (35.63)
TL35-FD	A + 700 (27.56)	1320 (51.97)	3342 (131.57)	1360 (53.54)	A + 1000 (39.37)
TL35-FS					

1. L = A + total insulation measure
2. The height (H) includes the thickness of the drip tray which is placed under the heat exchanger. NOTE! The vertical positions of the connections are 62 mm (2.44 inch) higher for installations that include a drip tray.
3. L = L<sub>tot</sub> (the complete heat exchanger inside the insulation)



For actual heat exchanger measurements see PHE drawing

A = Plate pack length

B = Foot print length

C = Total length

L<sub>tot</sub> = C + 0.5 insulation measure

D = Drainage

## Technical data

Cladding	Alu stucco sheet 1 mm (0.039 in)
Insulation	Polyuretan 40kg/m <sup>3</sup> 60 mm (2.36 in)
Inside layer	Aluminum folie 0.05 mm (0.002 in)
Panel fixation	Snap locks

## Selection

To be able to make a quotation, please specify:

- Frame type
- A-measurement
- Type of connections
- Connection positions

## How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit [www.alfalaval.com](http://www.alfalaval.com) to access the information direct.