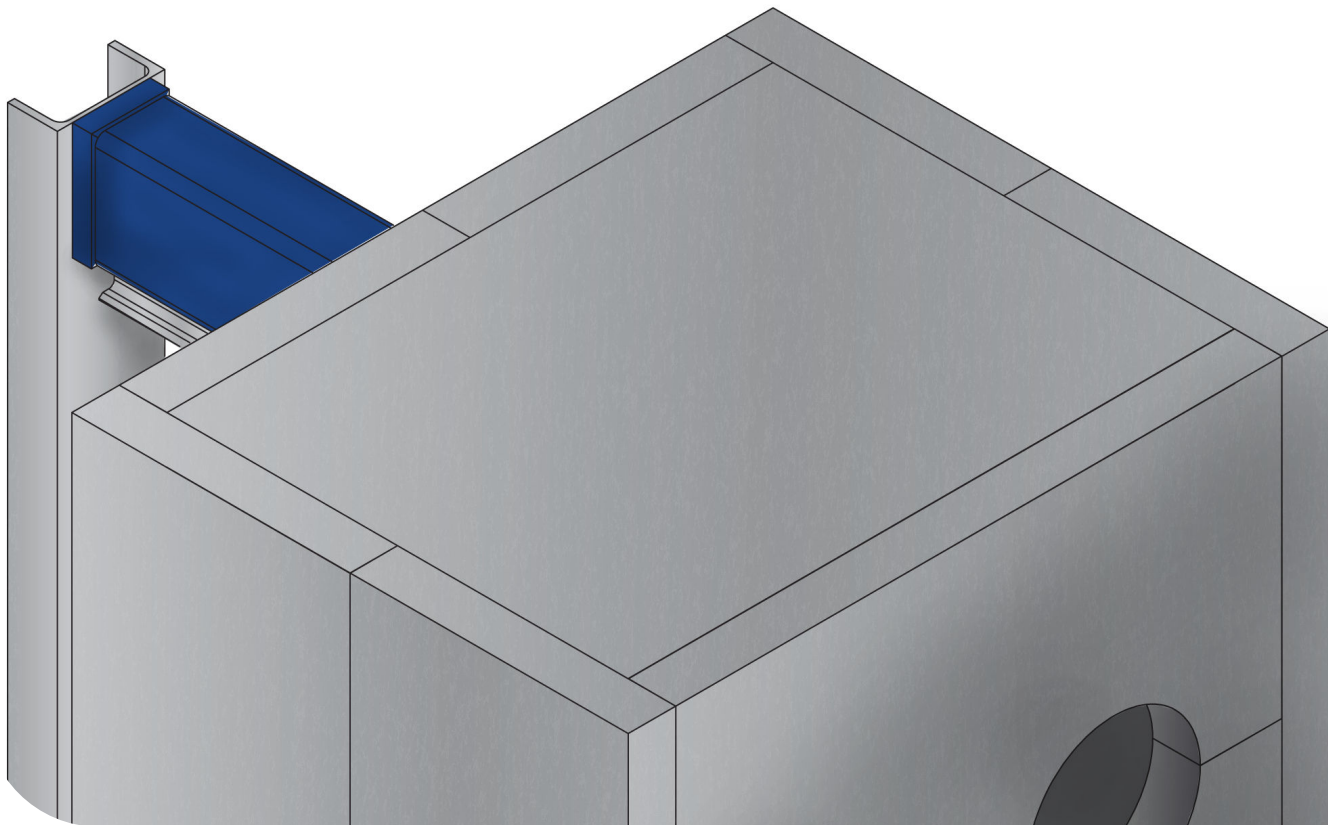


# Cooling Insulation for Gasketed Plate Heat Exchangers

Instruction Manual

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Instruction Manual

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**The original instructions are in English****© Alfa Laval AB 2024-04**

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# 1 Introduction

This document describes cooling insulation for gasketed plate heat exchangers.

Cooling insulation design comes in two sizes: medium and large. In the table below, GPHE models are specified in order.

| Insulation size | Product name (AQ-model) |
|-----------------|-------------------------|
| Medium          | T6<br>(AQ2T)            |
|                 | TL6<br>(AQ2L)           |
|                 | M6<br>(AQ2T)            |
| Large           | T10<br>(AQ4T)           |
|                 | TL10<br>(AQ4L)          |
|                 | M10<br>(AQ4)            |
|                 | T15<br>(AQ6T)           |
|                 | TL15<br>(AQ6L)          |
|                 | T20<br>(AQ8)            |
|                 | TK20                    |
|                 | T21<br>(AQ8T)           |
|                 | T25<br>(AQ10T)          |

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## 2 Description

The insulation panels are designed to ensure simple assembly and disassembly. They are equipped with connecting latches for the medium and large sizes and screws for the small size.

The insulation also includes a drip tray with a drainage to collect condensation from the heat exchanger. The drip tray is placed under the heat exchanger.

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## 3 Limitations

The cooling insulation has the following limitations:

- The insulation can only be used for a certain temperature range. For more information, see the section *Technical data*.
- Insulation may not be available for all plate heat exchanger models with holed pressure plate.
- The insulation can not be used in combination with connectivity rings.
- Insulation in combination with protection sheet is not available.
- If longer stud bolts are selected, standard insulation does not fit.
- Insulation only available up to size T25.
- The insulation is not diffusion tight.
- The insulation is for interior use only.
- The insulation can not be used together with a U-turn separator.

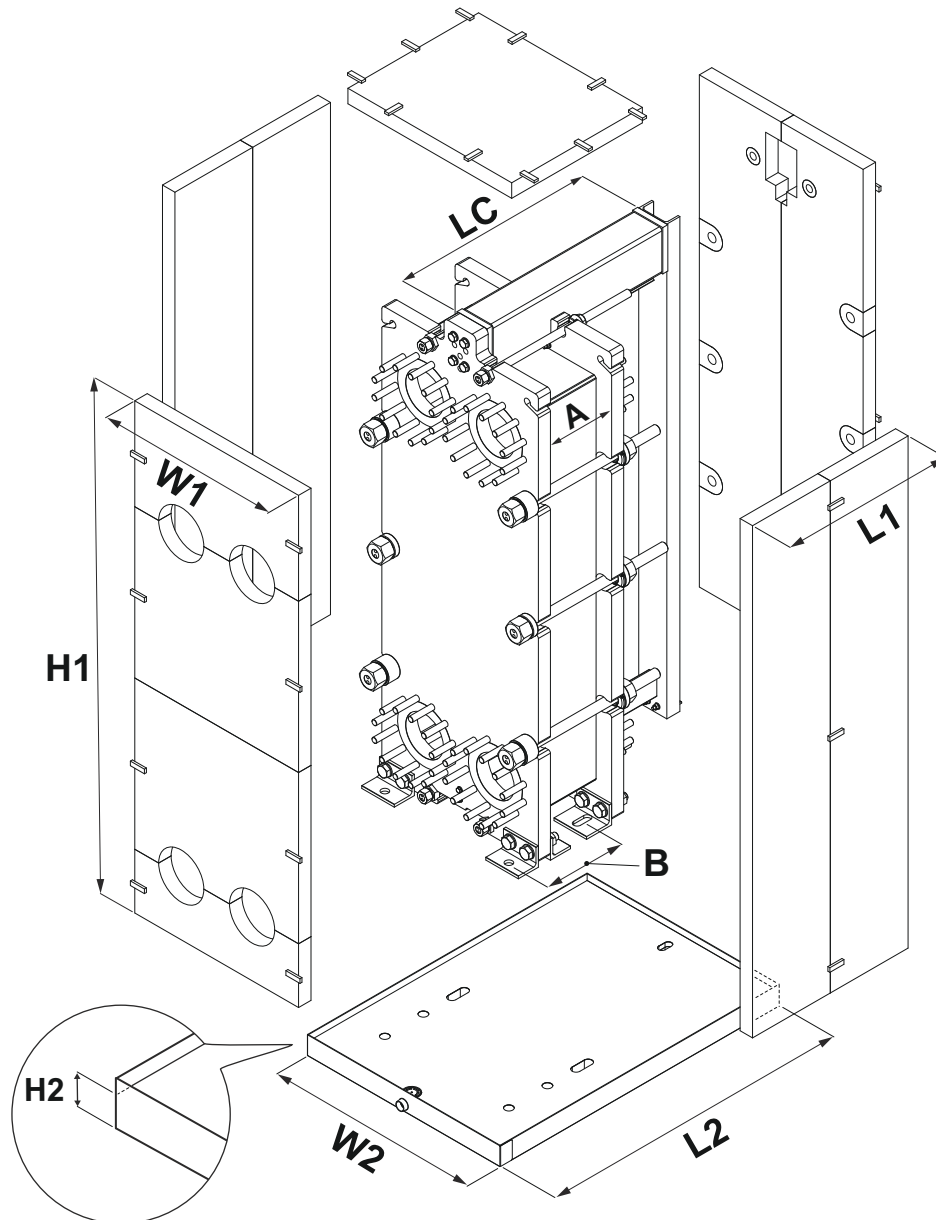
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## 4 Technical data

|                            | <b>Insulation</b>               | <b>Drip tray</b>                |
|----------------------------|---------------------------------|---------------------------------|
| Cladding material          | Aluminium stucco sheet          | Hot dip galvanized plate        |
| Insulation material        | Polyurethane                    | Polyurethane                    |
| Inside layer material      | Aluminium foil                  | Hot dip galvanized plate        |
| Total insulation thickness | 60 mm (2.36")                   | 60 mm (2.36")                   |
| Panel fixation             | Connecting latches              |                                 |
| Temperature range          | -50 to 80 °C<br>(-58 to 176 °F) | -50 to 80 °C<br>(-58 to 176 °F) |

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## 5 Dimensions



A = Plate pack length

B = Foot print length

LC = Length of the carrying bar

H1 = Height of the insulation

H2 = Height of the drip tray

L1 = Length of the insulation

L2 = Length of the drip tray

W1 = Width of the insulation

W2 = Width of the drip tray

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## 6 Measurement

The table below shows maximum dimensions and measurements in mm (inch).

For exact measurements, use the sales configuration tool.

Only GPHE models available with cooling insulation are shown below.

### NOTE

The data listed in the table below are for a standard plate heat exchanger with a standard carrying bar, hole only in the frame plate and standard connections. For non-standard plate heat exchangers, contact your Alfa Laval representative.

| Product<br>(AQ-mod-<br>el) | Frame         | Type    | Insulation panels                  |                                  |                        |                 | Drip tray                |                       |                |
|----------------------------|---------------|---------|------------------------------------|----------------------------------|------------------------|-----------------|--------------------------|-----------------------|----------------|
|                            |               |         | L1<br>Unholed<br>pressure<br>plate | L1<br>Holed<br>pressure<br>plate | W1                     | H1              | L2                       | W2                    | H2             |
| T6<br>(AQ2T)               | FD            | PED/ALS | A + 320<br>(A + 12.59)             | A + 320<br>(A + 12.59)           | 470<br>(18.50)         | 990<br>(38.97)  | LC + 277<br>(LC + 10.91) | 450<br>(17.71)        | 62<br>(2.44)   |
|                            |               | ASME    | A + 260<br>(A + 10.23)             | A + 260<br>(A + 10.23)           | 470<br>(18.50)         | 990<br>(38.97)  | LC + 277<br>(LC + 10.91) | 450<br>(17.71)        | 62<br>(2.44)   |
|                            | FG            | PED/ALS | A + 320<br>(A + 12.59)             | A + 320<br>(A + 12.59)           | 460<br>(18.11)         | 955<br>(37.59)  | LC + 277<br>(LC + 10.91) | 450<br>(17.71)        | 62<br>(2.44)   |
|                            |               | ASME    | A + 260<br>(A + 10.23)             | A + 260<br>(A + 10.23)           | 460<br>(18.11)         | 955<br>(37.59)  | LC + 277<br>(LC + 10.91) | 450<br>(17.71)        | 62<br>(2.44)   |
|                            | FM            | PED/ALS | A + 320<br>(A + 12.59)             | A + 320<br>(A + 12.59)           | 460<br>(18.11)         | 955<br>(37.59)  | LC + 277<br>(LC + 10.91) | 450<br>(17.71)        | 62<br>(2.44)   |
|                            | TL6<br>(AQ2L) | FD      | ALS                                | A + 340<br>(A + 13.38)           | A + 340<br>(A + 13.38) | 480<br>(18.89)  | 1324<br>(52.12)          | B + 209<br>(B + 8.22) | 510<br>(20.07) |
| PED                        |               |         | A + 340<br>(A + 13.38)             | A + 340<br>(A + 13.38)           | 480<br>(18.89)         | 1324<br>(52.12) | B + 209<br>(B + 8.22)    | 530<br>(20.86)        | 62<br>(2.44)   |
| ASME                       |               |         | A + 370<br>(A + 14.56)             | A + 370<br>(A + 14.56)           | 460<br>(18.11)         | 1368<br>(53.85) | B + 209<br>(B + 8.22)    | 510<br>(20.07)        | 62<br>(2.44)   |
| FG                         |               | PED/ALS | A + 340<br>(A + 13.38)             | A + 340<br>(A + 13.38)           | 480<br>(18.89)         | 1324<br>(52.12) | B + 209<br>(B + 8.22)    | 510<br>(20.07)        | 62<br>(2.44)   |
|                            |               | ASME    | A + 370<br>(A + 14.56)             | A + 310<br>(A + 12.20)           | 460<br>(18.11)         | 1359<br>(53.50) | B + 209<br>(B + 8.22)    | 500<br>(19.68)        | 62<br>(2.44)   |
| FM                         |               | PED/ALS | A + 340<br>(A + 13.38)             | A + 370<br>(A + 14.56)           | 480<br>(18.89)         | 1324<br>(52.12) | B + 209<br>(B + 8.22)    | 500<br>(19.68)        | 62<br>(2.44)   |

| Product<br>(AQ-model)  | Frame        | Type             | Insulation panels                  |                                  |                |   | Drip tray              |                |              |
|------------------------|--------------|------------------|------------------------------------|----------------------------------|----------------|---|------------------------|----------------|--------------|
|                        |              |                  | L1<br>Unholed<br>pressure<br>plate | L1<br>Holed<br>pressure<br>plate | W1             | H1  | L2                     | W2             | H2           |
| <b>M6<br/>(AQ2)</b>    | FM           | PED/ALS/<br>ASME | A + 260<br>(A + 10.23)             | A + 260<br>(A + 10.23)           | 460<br>(18.11) | 980<br>(38.58)  | B + 166<br>(B + 6.53)  | 480<br>(18.89) | 62<br>(2.44) |
|                        | FG           | PED/ALS          | A + 320<br>(A + 12.59)             | A + 350<br>(A + 13.77)           | 460<br>(18.11) | 980<br>(38.58)  | B + 166<br>(B + 6.53)  | 480<br>(18.89) | 62<br>(2.44) |
|                        | FG           | ASME             | A + 260<br>(A + 10.23)             | A + 260<br>(A + 10.23)           | 460<br>(18.11) | 980<br>(38.58)  | B + 166<br>(B + 6.53)  | 480<br>(18.89) | 62<br>(2.44) |
| <b>T10<br/>(AQ4T)</b>  | FD/FG<br>/FM | PED/ALS/<br>ASME | A + 370<br>(A + 14.56)             | A + 330<br>(A + 12.99)           | 600<br>(23.62) | 1114<br>(43.85)   | B + 330<br>(B + 7.87)  | 590<br>(23.22) | 62<br>(2.44) |
| <b>TL10<br/>(AQ4L)</b> | FM           | PED/ALS/<br>ASME | A + 380<br>(A + 14.96)             | A + 380<br>(A + 14.96)           | 656<br>(25.82) | 1375<br>(54.13)   | A + 740<br>(A + 29.13) | 700<br>(27.55) | 62<br>(2.44) |
|                        | FG           | PED/ALS/<br>ASME | A + 390<br>(A + 15.35)             | A + 390<br>(A + 15.35)           | 656<br>(25.82) | (1375<br>with<br>stand-<br>ard<br>carry-<br>ing<br>bar)<br>(1415<br>with<br>rein-<br>forced<br>carry-<br>ing-<br>bar) | A + 740<br>(A + 29.13) | 700<br>(27.55) | 62<br>(2.44) |
|                        | FD           | PED/ALS/<br>ASME | A + 410<br>(A + 16.14)             | A + 410<br>(A + 16.14)           | 656<br>(25.82) | (1375<br>with<br>stand-<br>ard<br>carry-<br>ing<br>bar)<br>(1415<br>with<br>rein-<br>forced<br>carry-<br>ing-<br>bar) | A + 740<br>(A + 29.13) | 700<br>(27.55) | 62<br>(2.44) |

| Product<br>(AQ-model) | Frame | Type               | Insulation panels                  |                                  |                |                   | Drip tray                |                |              |
|-----------------------|-------|--------------------|------------------------------------|----------------------------------|----------------|-------------------|--------------------------|----------------|--------------|
|                       |       |                    | L1<br>Unholed<br>pressure<br>plate | L1<br>Holed<br>pressure<br>plate | W1             | H1                | L2                       | W2             | H2           |
| <b>M10<br/>(AQ4)</b>  | FM    | PED/ALS/<br>ASME   | A + 330<br>(A + 12.99)             | A + 370<br>(A + 14.56)           | 600<br>(23.62) | 1140<br>(44.88)   | B + 280<br>(B + 11.02)   | 700<br>(27.55) | 62<br>(2.44) |
|                       | FG    | PED/ALS/<br>ASME   | A + 330<br>(A + 12.99)             | A + 370<br>(A + 14.56)           | 600<br>(23.62) | 1140<br>(44.88)   | B + 280<br>(B + 11.02)   | 700<br>(27.55) | 62<br>(2.44) |
|                       | FD    | PED/ALS            | A + 450<br>(A + 17.71)             | A + 480<br>(A + 18.89)           | 600<br>(23.62) | 1000<br>(39.37)   | B + 460<br>(B + 18.11)   | 700<br>(27.55) | 62<br>(2.44) |
|                       | FD    | ASME               | A + 480<br>(A + 18.89)             | A + 530<br>(A + 20.86)           | 600<br>(23.62) | 1140<br>(44.88)   | B + 275<br>(B + 10.82)   | 700<br>(27.55) | 62<br>(2.44) |
| <b>T15<br/>(AQ6T)</b> | FD    | ASME               | A + 490<br>(A + 19.29)             | A + 490<br>(A + 19.29)           | 798<br>(31.41) | 1929<br>(75.94)   | LC + 367<br>(LC + 14.44) | 830<br>(32.67) | 62<br>(2.44) |
|                       | FG    | ASME               | A + 470<br>(A + 18.50)             | A + 470<br>(A + 18.50)           | 798<br>(31.41) | 1914.5<br>(75.37) | LC + 357<br>(LC + 14.05) | 830<br>(32.67) | 62<br>(2.44) |
|                       |       | PED/ALS            | A + 470<br>(A + 18.50)             | A + 470<br>(A + 18.50)           | 798<br>(31.41) | 1929<br>(75.94)   | LC + 357<br>(LC + 14.05) | 830<br>(32.67) | 62<br>(2.44) |
|                       | FM    | PED/ALS/<br>Marine | A + 360<br>(A + 14.17)             | A + 360<br>(A + 14.17)           | 740<br>(29.13) | 1889<br>(74.37)   | LC + 350<br>(LC + 13.77) | 790<br>(31.10) | 62<br>(2.44) |
|                       | FS    | ASME               | A + 490<br>(A + 19.29)             | A + 490<br>(A + 19.29)           | 818<br>(32.20) | 1929<br>(75.94)   | LC + 387<br>(LC + 15.23) | 850<br>(33.46) | 62<br>(2.44) |
|                       |       | PED/ALS            | A + 490<br>(A + 19.29)             | A + 490<br>(A + 19.29)           | 798<br>(31.41) | 1929<br>(75.94)   | LC + 377<br>(LC + 14.84) | 830<br>(32.67) | 62<br>(2.44) |

| Product<br>(AQ-model) | Frame | Type             | Insulation panels                  |                                  |                |   | Drip tray                   |                |              |
|-----------------------|-------|------------------|------------------------------------|----------------------------------|----------------|---|-----------------------------|----------------|--------------|
|                       |       |                  | L1<br>Unholed<br>pressure<br>plate | L1<br>Holed<br>pressure<br>plate | W1             | H1  | L2                          | W2             | H2           |
| TL15<br>(AQ6L)        | FM    | PED/ALS/<br>ASME | A + 350<br>(A + 13.77)             | A + 350<br>(A<br>+ 13.77)        | 760<br>(29.92) | (2750<br>with<br>stand-<br>ard<br>carry-<br>ing<br>bar)<br>(2811<br>with<br>rein-<br>forced<br>carry-<br>ing-<br>bar) | L1 + 300<br>(L1<br>+ 11.81) | 800<br>(31.49) | 62<br>(2.44) |
|                       | FG    | PED/ALS/<br>ASME | A + 440<br>(A + 17.32)             | A + 440<br>(A<br>+ 17.32)        | 820<br>(32.28) | (2750<br>with<br>stand-<br>ard<br>carry-<br>ing<br>bar)<br>(2811<br>with<br>rein-<br>forced<br>carry-<br>ing-<br>bar) | L1 + 300<br>(L1<br>+ 11.81) | 840<br>(33.07) | 62<br>(2.44) |
|                       | FD    | PED/ALS/<br>ASME | A + 470<br>(A + 18.50)             | A + 470<br>(A<br>+ 18.50)        | 820<br>(32.28) | (2750<br>with<br>stand-<br>ard<br>carry-<br>ing<br>bar)<br>(2811<br>with<br>rein-<br>forced<br>carry-<br>ing-<br>bar) | L1 + 300<br>(L1<br>+ 11.81) | 840<br>(33.07) | 62<br>(2.44) |

| Product<br>(AQ-model) | Frame | Type             | Insulation panels                  |                                  |                |   | Drip tray  |                |              |
|-----------------------|-------|------------------|------------------------------------|----------------------------------|----------------|---|--|----------------|--------------|
|                       |       |                  | L1<br>Unholed<br>pressure<br>plate | L1<br>Holed<br>pressure<br>plate | W1             | H1  | L2   | W2             | H2           |
| T20<br>(AQ8)          | FG    | PED/ALS/<br>ASME | A + 480<br>(A + 18.89)             | A + 480<br>(A + 18.89)           | 900<br>(35.43) | (2225<br>with<br>stand-<br>ard<br>carry-<br>ing<br>bar)<br>(2375<br>with<br>rein-<br>forced<br>carry-<br>ing-<br>bar) | A + 750<br>(A + 29.52)   | 950<br>(37.40) | 62<br>(2.44) |
|                       | FD    | ASME             | A + 530<br>(A + 20.86)             | A + 530<br>(A + 20.86)           | 930<br>(36.61) | (2268<br>with<br>stand-<br>ard<br>carry-<br>ing<br>bar)<br>(2418<br>with<br>rein-<br>forced<br>carry-<br>ing-<br>bar) | A + 560<br>(A + 22.04)   | 970<br>(38.18) | 62<br>(2.44) |
| TK20                  | FG    | PED/ALS/<br>ASME | A + 395<br>(A + 15.55)             | A + 495<br>(A + 19.48)           | 870<br>(34.25) | 1580<br>(62.20)   | (Unholed<br>PP when<br>LC>2400<br>: A+515)<br>(Holed<br>PP when<br>LC>2400<br>: A+615)<br>Other LC<br>lengths:<br>B+206) | 910<br>(35.82) | 62<br>(2.44) |
|                       | FD    | PED/ALS          | A + 420<br>(A + 16.53)             | A + 515<br>(A + 20.27)           | 925<br>(36.41) | 1580<br>(62.20)   | (Unholed<br>PP when<br>LC>2400<br>: A+540)<br>(Holed<br>PP when<br>LC>2400<br>: A+635)<br>Other LC<br>lengths:<br>B+206) | 955<br>(37.59) | 62<br>(2.44) |
|                       | FD    | ASME             | A + 425<br>(A + 16.73)             | A + 525<br>(A + 20.66)           | 925<br>(36.41) | 1580<br>(62.20)   | (Unholed<br>PP when<br>LC>2400<br>: A+545)<br>(Holed<br>PP when<br>LC>2400<br>: A+645)<br>Other LC<br>lengths:<br>B+206) | 955<br>(37.59) | 62<br>(2.44) |

| Product<br>(AQ-model)  | Frame | Type             | Insulation panels                  |                                  |                 |                   | Driptray                 |                 |              |
|------------------------|-------|------------------|------------------------------------|----------------------------------|-----------------|-------------------|--------------------------|-----------------|--------------|
|                        |       |                  | L1<br>Unholed<br>pressure<br>plate | L1<br>Holed<br>pressure<br>plate | W1              | H1                | L2                       | W2              | H2           |
| <b>T21<br/>(AQ8T)</b>  | FD    | PED/ALS/<br>ASME | A + 510<br>(A + 20.07)             | A + 560<br>(A + 22.04)           | 940<br>(37.00)  | 2248<br>(88.50)   | LC + 490<br>(LC + 19.29) | 960<br>(37.79)  | 62<br>(2.44) |
|                        | FG    | PED/ALS/<br>ASME | A + 470<br>(A + 18.50)             | A + 510<br>(A + 20.07)           | 940<br>(37.00)  | 2210<br>(87.00)   | LC + 490<br>(LC + 19.29) | 960<br>(37.79)  | 62<br>(2.44) |
|                        | FM    | PED/ALS/<br>ASME | A + 410<br>(A + 16.14)             | A + 485<br>(A + 19.09)           | 915<br>(36.02)  | 2157.5<br>(84.94) | LC + 490<br>(LC + 19.29) | 960<br>(37.79)  | 62<br>(2.44) |
| <b>T25<br/>(AQ10T)</b> | FD    | PED/ALS          | A + 545<br>(A + 21.45)             | A + 545<br>(A + 21.45)           | 1060<br>(47.73) | 2766<br>(108.89)  | LC + 445<br>(LC + 17.51) | 1110<br>(43.70) | 62<br>(2.44) |
|                        |       | ASME             | A + 590<br>(A + 23.22)             | A + 590<br>(A + 23.22)           | 1080<br>(42.51) | 2770<br>(109.05)  | LC + 475<br>(LC + 18.70) | 1130<br>(44.48) | 62<br>(2.44) |
|                        | FG    | PED/ALS          | A + 510<br>(A + 20.07)             | A + 510<br>(A + 20.07)           | 1060<br>(47.73) | 2716<br>(109.92)  | LC + 435<br>(LC + 17.12) | 1110<br>(43.70) | 62<br>(2.44) |
|                        |       | ASME             | A + 510<br>(A + 20.07)             | A + 510<br>(A + 20.07)           | 1060<br>(47.73) | 2716<br>(109.92)  | LC + 435<br>(LC + 17.12) | 1110<br>(43.70) | 62<br>(2.44) |
|                        | FM    | PED/ALS          | A + 495<br>(A + 19.48)             | A + 495<br>(A + 19.48)           | 1060<br>(47.73) | 2716<br>(109.92)  | LC + 425<br>(LC + 16.73) | 1110<br>(43.70) | 62<br>(2.44) |
|                        | FS    | PED/ALS          | A + 580<br>(A + 22.83)             | A + 580<br>(A + 22.83)           | 1060<br>(47.73) | 2766<br>(108.89)  | LC + 445<br>(LC + 17.51) | 1110<br>(43.70) | 62<br>(2.44) |
|                        |       | ASME             | A + 630<br>(A + 24.80)             | A + 630<br>(A + 24.80)           | 1080<br>(42.51) | 2770<br>(109.05)  | LC + 490<br>(LC + 19.29) | 1130<br>(44.48) | 62<br>(2.44) |

## 7 Installation

### 7.1 Insulation for medium units

This section is only valid for insulation intended for medium units. See Chapter [Introduction](#) for sizing. On the rear insulation panel of medium sized insulations, cut out holes for tightening bolts and carrying bar.

On the rear insulation panel of medium/large sized insulations, cut out holes for tightening bolts and carrying bar.

#### 7.1.1 Installation

 **WARNING** Risk of personal injury.

Wear personal protective equipment when handling the insulation panels.

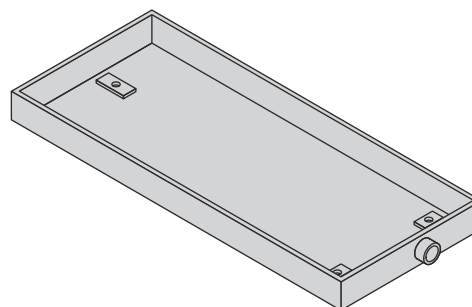
There are a few different designs of insulation within the medium range. Each step in the instruction shows variations of the design. Follow the one corresponding to your actual gasketed plate heat exchanger insulation.

The piping is not shown in the illustrations.

In the design with latches, lock the latches between the panels when it is suitable in the assemble sequence.

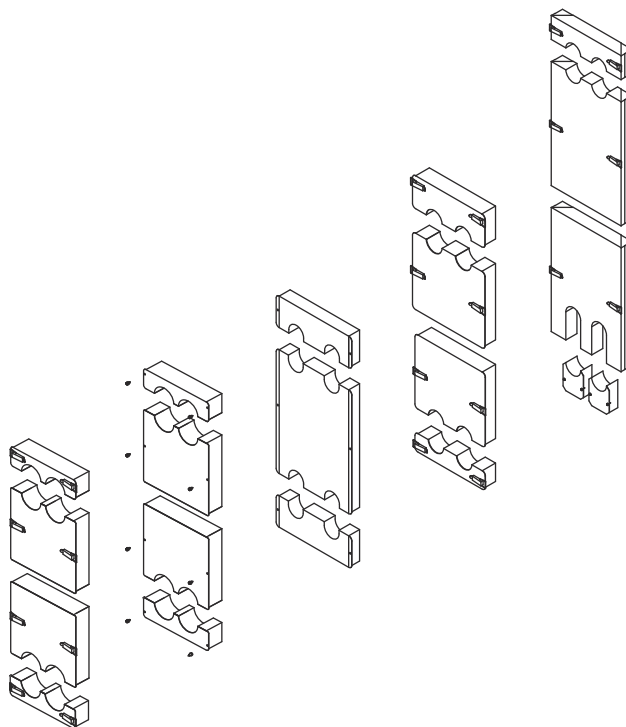
In the design with screws, tighten the screws between the insulation panel parts when suitable in the assemble sequence.

- 1 Put the drip tray in place.

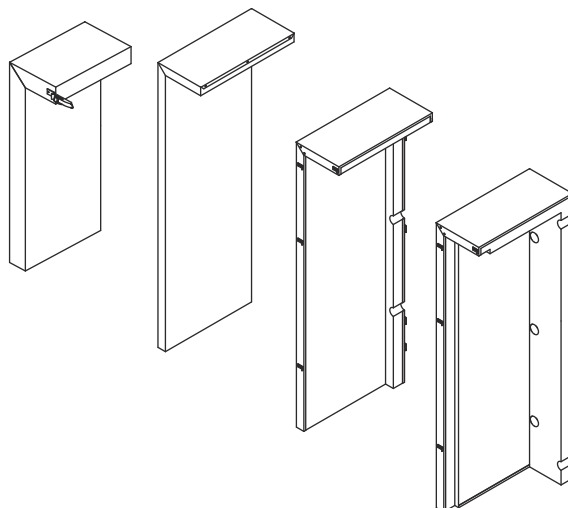


- 2 Install the gasketed plate heat exchanger and connect all piping according to separate documentation and publications.

- 3 Assemble the front insulation panel parts starting from the bottom.



- 4 Assemble the left hand side insulation panel.





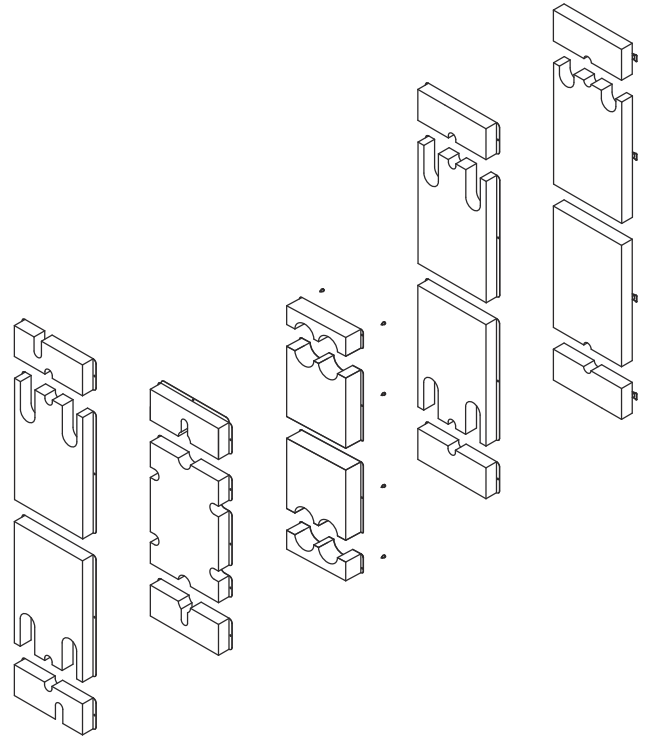
5

**NOTE**

**This step is only valid for insulation designs with rear insulation panel parts.**

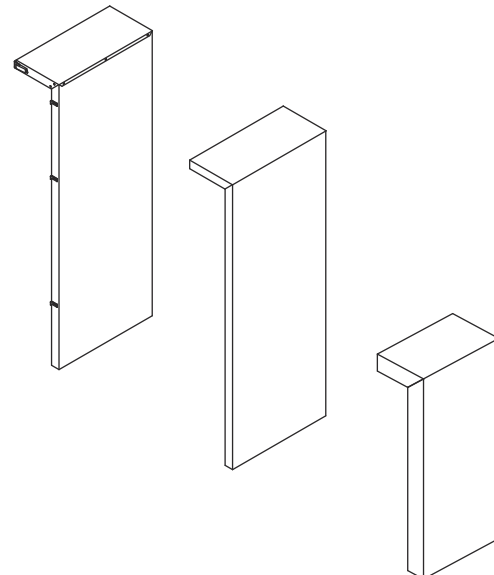
Go to the next step if you do not have these parts for your gasketed plate heat exchanger.

Assemble the rear insulation panel parts starting from the bottom.



6

Assemble the right hand side insulation panel.



## 7.2 Insulation for large units

This section is only valid for insulation intended for large units. See Chapter [Introduction](#) for sizing. On the rear insulation panel of large sized insulations, cut out holes for tightening bolts and carrying bar.

On the rear insulation panel of medium/large sized insulations, cut out holes for tightening bolts and carrying bar.

### 7.2.1 Installation

**WARNING** Risk of personal injury.

Wear personal protective equipment when handling the insulation boards.

**NOTE**

It is recommended to be two persons when assemble the insulation.

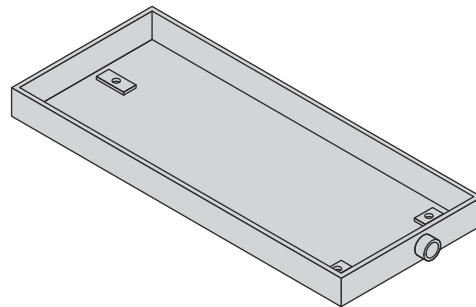
The gasketed plate heat exchanger shown in the illustrations is just an example of a product where the large insulation is used.

The piping is not shown in the illustrations.

The latches are not shown in the illustrations because the amount and position varies between the different gasketed plate heat exchanger models.

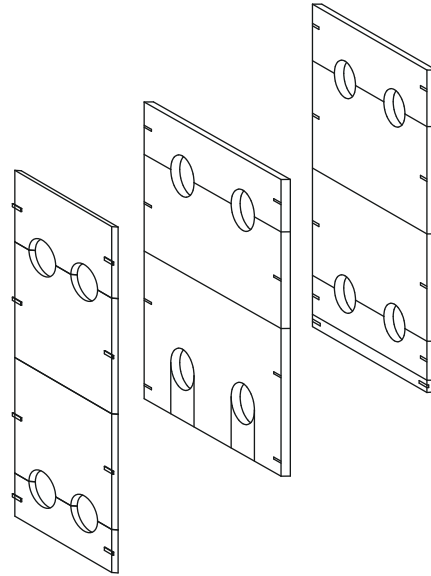
Lock the latches between the boards when it is suitable in the assemble sequence.

- 1 Put the drip tray in place.

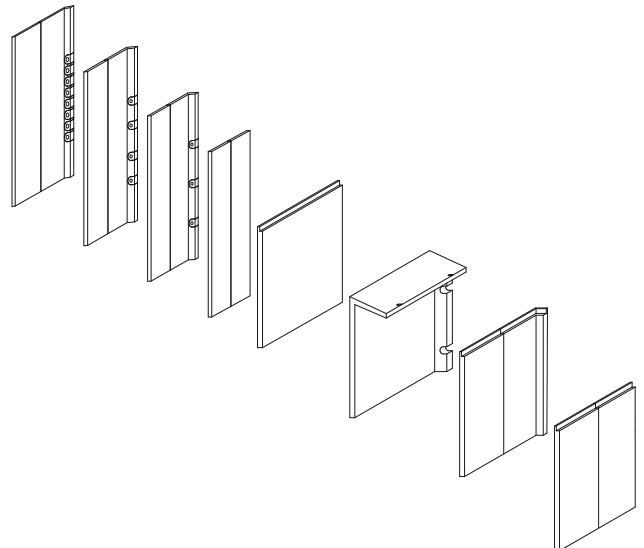


- 2 Install the gasketed plate heat exchanger and connect all piping according to separate documentation and publications.

- 3 Assemble the front insulation panel parts starting from the bottom.



- 4 Assemble the left hand side insulation panel.



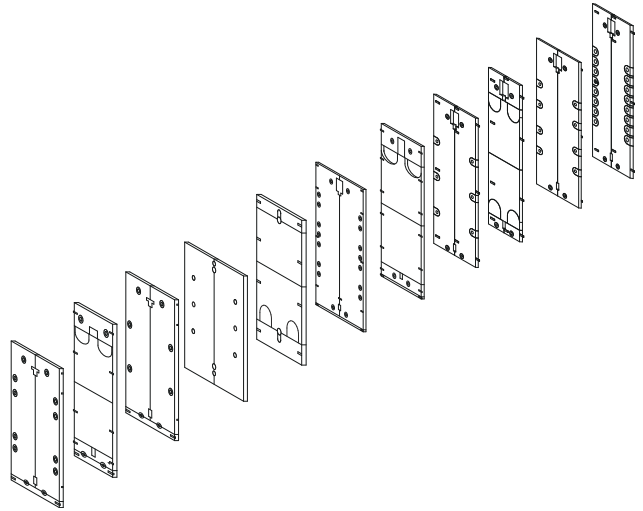
5

**NOTE**

**This step is only valid for insulation designs with rear insulation panel parts.**

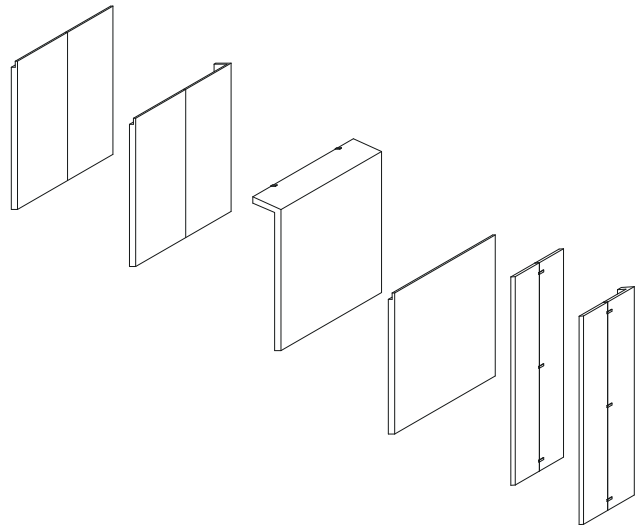
Go to the next step if you do not have these parts for your gasketed plate heat exchanger.

Assemble the rear insulation panel parts starting from the bottom.



6

Assemble the right hand side insulation panel.



- 7 Assemble the top insulation panel.

