Air Cooling Units
For Turbomolecular Drag Pumps With TC

Safety Instructions

If the air cooling unit has a mains cable the electrical connections must be carried out by qualified personnel in compliance with local regulations. The mains plug may only be connected to the mains voltage after the air cooling unit has been fitted to the turbopump.

WARNING
Air cooling units for TMH/TMU 071, TMH/TMU 261/262 and TMH/U 521

36 Fan
36a Control lead, air cooling unit/TC
36b Holder

Proper Use
The air cooling unit may only be used for cooling Pfeiffer Vacuum turbomolecular pumps with integrated Electronic Drive Unit TC 600 and TC 100 (please see the table below).

<table>
<thead>
<tr>
<th>Pump typ</th>
<th>Air cooling unit order Number</th>
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<tbody>
<tr>
<td>TMH/TMU 071</td>
<td>PM Z01 253</td>
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<tr>
<td>TMH/TMU 261</td>
<td>PM Z01 252</td>
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<tr>
<td>TMH/TMU 262</td>
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<tr>
<td>TMH/TMU 521</td>
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<td>TMH/TMU 1001</td>
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<td>TMH/TMU 1601</td>
<td>PM Z01 250</td>
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Installation

Air cooling units for TMH/TMU 071, TMH/TMU 261/262, TMH/TMU 521

➡ Position the turbopump horizontally with the fore-vacuum flange 2 down to fit the air cooling unit.

 '**CAUTION**' Pump typ Air cooling unit order Number

★ Half screw the two enclosed hexagonal screws 36c with spring washers 36d in the securing holes into the lower part of the pump. Position the spring washers on the heads of the screws.

★ Push holder 36b over the screw heads and spring washers.

★ Tighten the screws with an open jawed wrench.

★ Place the pump back onto its feet.

Fitting the air cooling unit (TC 600)

1 High vacuum flange
2 Fore-vacuum flange
8 Electronic Drive Unit TC 600
36 Fan
36a Control lead, air cooling unit/TC 600
36b Holder
36c Screw (2x)
36d Spring washer (2x)
Electrical connection TC 600

- Plug control lead 36a into the connection "FAN" of the TC 600 (8) on the turbopump.

Electrical connection (TC 600)

8 Electronic Drive Unit TC 600
36 Fan
36a Control lead, air cooling unit/TC 600
FAN
36a 36

Electrical connection TC 100

- Connect the air cooling to the Pumping Station Control Unit TCS 010. For details please refer to Operating Instructions for the TCS 010.

Air cooling units for TMH/TMU 1001 and TMH/TMU 1601

- Position the turbopump horizontally with the fore-vacuum flange 2 down to fit the air cooling unit.

Pump must not be placed on their high vacuum flange owing to the danger of contamination from the lubricant.

- Remove the stoppers from the threaded holes on the base of the pump.
- Screw the complete air cooling unit onto holder 36b with the four screws 36c and spring washers 36d enclosed.
- Place the pump again on its feet.

Fitting the air cooling unit

1 High vacuum flange
2 Fore-vacuum flange
8 Electronic Drive Unit TC 600
36 Fan
36b Holder
36c Screw (4x)
36d Spring washer (4x)

Operations

Please refer to the operating instructions for the relevant turbopump.