Installation Instructions
Air Intake from Below Kit
ACS800-07 Drives (45 to 560 kW)
ACS800-U7 Drives (50 to 600 HP)
ACS800 Single Drive Manuals

HARDWARE MANUALS (appropriate manual is included in the delivery)

- ACS800-01/U1 Hardware Manual 0.55 to 110 kW (0.75 to 150 HP) 3AFE64382101 (English)
- ACS800-01/U1/04 Marine Supplement 0.55 to 132 kW (0.75 to 150 HP) 3AFE64291275 (English)
- ACS800-11/U11 Hardware Manual 5.5 to 110 kW (7.5 to 125 HP) 3AFE68367883 (English)
- ACS800-02/U2 Hardware Manual 90 to 500 kW (125 to 600 HP) 3AFE64567373 (English)
- ACS800-04 Hardware Manual 0.55 to 132 kW 3AFE68372984 (English)
- ACS800-04/04M/U4 Hardware Manual 45 to 560 kW (60 to 600 HP) 3AFE68671006 (English)
- ACS800-04/04M/U4 Cabinet Installation 45 to 560 kW (60 to 600 HP) 3AFE68630323 (English)
- ACS800-07/U7 Hardware Manual 45 to 560 kW (50 to 600 HP) 3AFE64702165 (English)
- ACS800-07/U7 Dimensional Drawings 45 to 560 kW (50 to 600 HP) 3AFE64775421
- ACS800-07 Hardware Manual 500 to 2800 kW 3AFE64731165 (English)
- ACS800-17 Hardware Manual 160 to 2500 kW (200 to 3000 HP) 3AFE68397260 (English)

- Safety instructions
- Electrical installation planning
- Mechanical and electrical installation
- Motor control and I/O board (RMIO)
- Maintenance
- Technical data
- Dimensional drawings
- Resistor braking

FIRMWARE MANUALS, SUPPLEMENTS AND GUIDES (appropriate documents are included in the delivery)

- Standard Application Program Firmware Manual 3AFE64527592 (English)
- System Application Program Firmware Manual 3AFE63700177 (English)
- Application Program Template Firmware Manual 3AFE64616340 (English)
- Master/Follower 3AFE64590430 (English)
- PFC Application Program Firmware Manual 3AFE64649337 (English)
- Extruder Control Program Supplement 3AFE64648543 (English)
- Centrifuge Control Program Supplement 3AFE64667246 (English)
- Traverse Control Program Supplement 3AFE64618334 (English)
- Crane Control Program Firmware Manual 3BSE111179 (English)
- Adaptive Programming Application Guide 3AFE64527274 (English)

OPTION MANUALS (delivered with optional equipment)

- ACS800-01/U1 Vibration Damper Installation Guide 3AFE68295351 (English)
- Fieldbus Adapters, I/O Extension Modules etc.
ACS800-07 Drives
45 to 560 kW
ACS800-U7 Drives
50 to 600 HP

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Air Intake from Below Kit
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**Installation instructions**

**Description**

The Air Intake from Below Kit is an optional assembly kit for ACS800-07/U7 cabinets with degree of protection IP54 or IP54R. With the kit, cooling air can be led into the cabinet from an air duct located below the cabinet front.

The kit includes parts to be installed to the floor in front of the cabinet and air guide boxes to be installed to the cabinet door in front of the air inlet gratings. The “floor parts” and “door parts” are coupled together by a fastener. The cabinet door can be opened when the fastener has been unlocked without removing any other parts.
Parts

The Air Intake from Below Kit (code: 68503493) contains the following parts.

- **Lower floor fastener**
  - Stud i.e. bolt for fastening the upper floor fastener to the lower one
- **Upper floor fastener**
- **Foot grating**
- **Floor fastening holes**
- **Tabs to be inserted into the slots in the cabinet base**
- **Four fastening clamps**
Installation instructions

d  Lower air guide box (front view)

Lower air guide box (back view)

Fastening hooks to door gratings

e  Upper air guide box (front view)

Upper air guide box (back view)

Fastening hooks to door grating

f  Front fastener
Expoded view of the installation

An expoded back view of the installation is shown below.

This side against the cabinet door
Installation procedure

<table>
<thead>
<tr>
<th>Step</th>
<th>Instruction</th>
<th>Photo</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Insert the tabs on the lower floor fastener (a) into the slots in the cabinet base.</td>
<td><img src="image1.png" alt="Step 1 Photo" /></td>
</tr>
<tr>
<td>2</td>
<td>Fasten the lower floor fastener to the cabinet base with two screws.</td>
<td><img src="image2.png" alt="Step 2 Photo" /></td>
</tr>
<tr>
<td>3</td>
<td>Fasten the lower floor fastener to the floor with four screws.</td>
<td><img src="image3.png" alt="Step 3 Photo" /></td>
</tr>
<tr>
<td>4</td>
<td>Place the upper floor fastener (b) onto the lower floor fastener (a). Align the studs on the lower fastener with the counter holes in the upper one.</td>
<td><img src="image4.png" alt="Step 4 Photo" /></td>
</tr>
</tbody>
</table>

Air duct: the hole in the floor must be approximately the same size as the opening in part (a).
<table>
<thead>
<tr>
<th>Step</th>
<th>Instruction</th>
<th>Photo</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Thread nuts onto the studs of the lower floor fastener (a) and tighten to join the floor fasteners together.</td>
<td><img src="image1.jpg" alt="Photo" /></td>
</tr>
<tr>
<td>6</td>
<td>Fasten the foot grating with four clamps.</td>
<td><img src="image2.jpg" alt="Photo" /></td>
</tr>
<tr>
<td>Step</td>
<td>Instruction</td>
<td>Photo</td>
</tr>
<tr>
<td>------</td>
<td>-----------------------------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>7</td>
<td>Shut the cabinet door.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Slide the fastening hooks of the lower air guide box into the door gratings.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Push the air guide box down.</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Fasten the air guide box to the door with the L-bracket (one screw).</td>
<td></td>
</tr>
<tr>
<td>Step</td>
<td>Instruction</td>
<td>Photo</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
<td>-------</td>
</tr>
<tr>
<td>11</td>
<td>Slide the fastening hooks of the upper air guide box into the door gratings.</td>
<td><img src="image1.jpg" alt="Image 1" /></td>
</tr>
<tr>
<td>12</td>
<td>Push the air guide box down.</td>
<td><img src="image2.jpg" alt="Image 2" /></td>
</tr>
<tr>
<td>13</td>
<td>Join the upper and lower air guide boxes together with 9 screws.</td>
<td><img src="image3.jpg" alt="Image 3" /></td>
</tr>
<tr>
<td>14</td>
<td>Fasten the air guide box cover with 9 screws.</td>
<td><img src="image4.jpg" alt="Image 4" /></td>
</tr>
<tr>
<td>15</td>
<td>Fasten the air guide box to the door with the L-bracket (one screw).</td>
<td><img src="image5.jpg" alt="Image 5" /></td>
</tr>
<tr>
<td>16</td>
<td>Latch both ends of the front fastener onto the hooks on the upper floor fastener.</td>
<td><img src="image6.jpg" alt="Image 6" /></td>
</tr>
</tbody>
</table>

*Installation instructions*
**Dimensional drawings**

Dimensional drawings with dimensions in millimetres are shown below. 1 mm = 0.03936996 in..

Dimensions of the hole in the floor 379 × 688, see page 7.