Energy-saving axial fans
A solution specifically designed for unit cooler applications.

10-Position rotary switch
New S1G305 series designed for unit cooler applications

Unit Cooler
The new S1G305 series uses 30% less power than typical unit cooler fans with PSC motors. Specifically designed for unit cooler applications, the S1G305 fan series is equipped with a very efficient electronically commutated, permanent magnet motor. Motor, blade, power cable and three mounting options are integrated and available as a single part number. The S1G305 fans are equally suited for both OEM and retrofit use. Fan replacement or retrofit of walk-in evaporators is a breeze with the winning combination of wide voltage range and rotary speed selection on the S1G305 series!

Standard Features
- 835 CFM at 41 watts input power at free air
- Same performance operating on 50 or 60 Hz
- Maintains performance over wide voltage range (100-240 VAC)
- Efficient, small frame EC external rotor motor reduces power and mounting depth
- Mounting depth only 2.86" (including mounting stud flange)
- Integrated assembly reduces purchasing and manufacturing logistics
- Multi-mount design provides three bolt-circles for choice of mounting
- 12” diameter composite, aerodynamic blade is installed and balanced
- Grounding protection Class II - no ground wire needed
- Protection Class IP54
- EMF P-2-1-075 compatible plug connection on 12” jacketed cable
- Allows use of existing fan guards

Options
- 10 position rotary switch for setting speed (P/N S1G305-DA02-10)
- Two speed
- Variable speed

EC axial fans
Sickled blades (S-series) single inlet Ø 305

Highlights:
- Motor current limit
- Soft start
- Over-temperature protected electronics
- Locked rotor protection

Material: Blades and struts: PP plastic
Mounting position: Shaft horizontal with the harness in the 6 o’clock position
Condensate discharge holes: None
Direction of rotation: Clockwise, seen on rotor

Nominal Data

<table>
<thead>
<tr>
<th>Type</th>
<th>Motor</th>
<th>Voltage range</th>
<th>Frequency</th>
<th>Power input (1)</th>
<th>Speed</th>
<th>Current (1)</th>
<th>Maximum pressure</th>
<th>Temperature range</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1G305-DA02-07</td>
<td>M1G055-DF</td>
<td>100...240</td>
<td>50/60</td>
<td>63</td>
<td>1590</td>
<td>0.90</td>
<td>-40...40</td>
<td>3.6</td>
<td></td>
</tr>
<tr>
<td>S1G305-DA02-10</td>
<td>M1G055-DF</td>
<td>100...240</td>
<td>50/60</td>
<td>70</td>
<td>1650</td>
<td>0.98</td>
<td>-40...40</td>
<td>3.6</td>
<td>10-speed rotary switch</td>
</tr>
</tbody>
</table>

(1) Nominal data at maximum load and 115 VAC. (2) Speed settings (rpm): 900, 1100, 1200, 1300, 1400, 1450, 1500, 1550, 1600, 1650

S1G305-DA02-07 Performance Curve

Air performance measured on an air chamber designed to meet ISO 5801, with fan installed as per ISO 5801 Installation Category A. Joint without protection against accidental contact.

The fan was mounted in a square-edged orifice to simulate worst case unit cooler applications.

The values given are valid under the measuring conditions mentioned and may vary according to the actual installation situation.

For detailed information on the measurement end-ups, please contact ebm-papst.
Air performance measured on an air chamber designed to meet ISO AMCA210-99 and ISO 5801, with fan tested as per ISO 5801 installations Category A without protection against accidental contact.

The fan was mounted in a square-edged orifice to simulate worst case unit cooler applications.

The values given are valid under the measuring conditions mentioned and may vary according to the actual installation situation.

For detailed information on the measurement set-up, please contact ebm-papst.

View of rotary switch speed selector shown without cover plate. Unit otherwise dimensionally the same as the single speed S1G305-DA02-07.

Speed selector shown set to #7, equal to 1500 rpm.
Step-by-step visual instructions

The ebm-papst S1G305 unit cooler fan assembly can be used to replace failed EC, PSC or shaded pole inefficient motor/blade/mount assemblies providing a quick repair and immediate energy savings by upgrading to an EC motor.

1. Remove existing finger guard and nuts for re-use.

2. Remove existing fan, blade and mount as complete assembly – no disassembly required since these parts will not be required.

3. Install the new preassembled ebm-papst EC fan with existing hardware.

4. Final installation re-using existing fingerguards.

Standard evaporator with motor, blade and mounting fixture.

Scan here to see for yourself how easy the S1G305 makes replacing a broken or inefficient fan assembly!

Or visit our YouTube channel at https://www.youtube.com/user/ebmpapstUSA