**Fan dimensions**

### Model | A | B | C | D | E
--- | --- | --- | --- | --- | ---
ICON 15S | 197 | 108.5 | 67.5 | 100 | 40

**Range overview**

Airflow® ICON® SELV range are 12V DC powered Safety Extra Low Voltage fans. Fans are available in two model sizes and can be fitted to a wall or ceiling.

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Model</th>
<th>Air flow (l/s/m$^2$)</th>
<th>Power (W)</th>
<th>Current (A)</th>
<th>Noise level (dB(A) @ 3m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>72683791</td>
<td>ICON 15S</td>
<td>21.77</td>
<td>6.1</td>
<td>0.07</td>
<td>32.4</td>
</tr>
<tr>
<td>72683001</td>
<td>ICON 30S</td>
<td>37.13</td>
<td>12.2</td>
<td>0.10</td>
<td>36.2</td>
</tr>
</tbody>
</table>

ICON 15S -100mm axial face
ICON 30S -100mm mixed-flow fan

The ICON SELV range can be used as a simple extract SELV fan operated by a remote switch (standard), or can be fitted with an internal control module to give a range of control options (which includes: timer, humidity, motion sensor, pull cord or combinations of these functions). These optional modules are available separately and can be fitted at the time of installation or retrofitted (see page 15).

**Electrical installation**

All electrical installation must be carried out by an approved electrician in accordance with Approved Document Part P of U.K. Building Regulations and to the latest IET standards, or the appropriate regulations in the country of installation.

The fan requires a 12V DC supply (included in the box), class III equipment (marked as stated in BS EN 60417).

The ICON SELV fan range is IPX4 rated and therefore it is suitable for mounting in bathrooms (incl. zones 1 and 2), toilets, kitchens and utility rooms, as long as it is not exposed to water jets (i.e. can be installed above fixed shower head).

Important

Do not place the ventilator near direct heat sources, e.g. radiators, or where temperatures can exceed 40°C (104°F).

Wiring with no control module fitted:

![Electrical installation diagram]

**Mechanical installation**

- **Cable entry**
- **Cable clamp**
- **Module clip**
- **Module locating block**
- **Terminal connector**
- **Module fitting place**

ICON fans can be recessed in a wall or ceiling (ICON 30S is also supplied with surface mounting kit). See pages 8-10 for details.

Always ensure free running of the fan impeller and that duct connections are not over tightened to the fan outlet spigot.

Fix the sealed grommet supplied into the cable entry hole. Pierce the grommet to allow the mains cable to be pulled through while maintaining the integrity of the seal.

Airflow Developments recommends that rigid ducting is used where possible instead of flexible ducting, this will ensure maximum performance.

**Before carrying out the installation**

- Make sure all vapour barriers are properly restored.
- Ensure all vapour barriers are properly restored.
- Do not attempt to refit it for approx. two minutes (allowing the actuator to retract back in the closed position).
- Duct the front cover assembly, first make sure the fan is off, isolated from the power supply and the iris shutter is fully closed.
- When surface mounting the ICON 30S the supplied mounting skirt should be used.
- The ICON 30S requires a 110mm diameter hole through the wall lined with a 100mm internal diameter duct. The ICON 30S requires a 110mm diameter hole through the wall, counter bored 160mm to a depth of 80mm. The hole should be lined with a 100mm internal diameter duct.

**Surface mounting fans on the wall**

When surface mounting the ICON 30S the supplied mounting skirt should be used.

The ICON 30S requires a 110mm diameter hole through the wall lined with a 100 mm internal diameter duct.

**Recessing fans in the wall**

The ICON 15S requires a 110mm diameter hole through the wall lined with a 100mm internal diameter duct.

The ICON 30S requires a 110mm diameter hole through the wall, counter bored 160mm to a depth of 80mm. The hole should be lined with a 100mm internal diameter duct.

**Fitting on the wall**

![Fitting on the wall diagram]

To remove front cover assembly, first make sure the fan is off, isolated from the power supply and the iris shutter is fully closed.

1. Undo the locking screw at the bottom edge of the cover using a screwdriver.
2. Rotate the cover a few degrees anticlockwise until it clicks out from the fittings.
3. Remove the cover by pulling it out.

To refit the cover, reverse the above procedure. If when refitting the front cover the iris stays open, remove the cover and don’t attempt to refit it for approx. two minutes (allowing the actuator to retract back in the closed position). Then try again.

# Optional modules for iCON SELV 12V

These optional modules are available separately and can be fitted with an internal control module to give a range of control options (which includes: timer, humidity, motion sensor, pull cord or combinations of these functions).

Before carrying out the installation see pages 11&12 for best practice recommendations.

To remove front cover from the iCON 15S, first make sure the fan is off, isolated from the power supply and the iris shutter is fully closed.

1. Undo the locking screw at the bottom edge of the cover using a screwdriver.
2. Rotate the cover a few degrees anticlockwise until it clicks out from the fittings.
3. Remove the cover by pulling it out.

To refit the cover, reverse the above procedure. If when refitting the front cover the iris stays open, remove the cover and don’t attempt to refit it for approx. two minutes (allowing the actuator to retract back in the closed position). Then try again.
Fitting in the ceiling

When recessing or surface mounting fans in the ceiling, a plywood support (min. 18mm thick) should be mounted between the ceiling joists. Any fixing screws should be fitted through the plasterboard into the support.

Important

Fans should not be fitted to unsupported plaster board.

Recessing fans in the ceiling

The fan should be fitted in the hole, fixed with the screws provided into the support.
The ICON 15S requires a 110mm diameter hole through the ceiling.
The ICON 30S requires a 160mm diameter hole through the ceiling.
Where flexible duct is used the diameter must be maintained.

Maintenance

SAFETY FIRST: ALWAYS ISOLATE THE FAN UNIT FROM THE POWER SUPPLY BEFORE DOING ANY WORK ON THE FAN/MODULE.

When installed according to these instructions the ICON range is completely safe. The materials used do not constitute a hazard.

Cleaning

Fan and ducting should be inspected and cleaned on a regular basis to keep fan performance. The external housing of the fan can be wiped with a damp cloth. Do not use household cleaners containing abrasives. Cleaning of the internal parts such as the impeller should be carried out by using a soft brush. Never clean any parts of the fan assembly by immersing in water or using a dishwasher.

Warning

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children should not play with the appliance. Cleaning and user maintenance shall not be carried out by children without adult supervision.

Fitting in the ceiling

Surface mounting fans on the ceiling

When surface mounting the iCON 30S, the mounting skirt should be provided. The mounting skirt should be fixed, with the screws provided, into the support. The fan is then fitted into the skirt.
The ICON 30S requires a 110mm diameter hole through the ceiling.
Where flexible duct is used the diameter must be maintained.

Warranty

Applicable to units installed and used in the United Kingdom.

Airflow Developments Ltd guarantees the ICON for 3 years from date of purchase against faulty material or workmanship. You can register your warranty on-line (for more information check at www.airflow.com). Warranty only covers the fan, not the reinstallation if required. In the event of any defective parts being found, Airflow Developments Ltd reserve the right to repair or at our discretion replace without charge provided that the unit:

1. Has been installed and used in accordance with the fitting and wiring instructions supplied with each unit.
2. Has not been connected to an unsuitable electrical supply.
3. Has not been subjected to misuse, neglect or damage.
4. Has not been modified or repaired by any person not authorised by Airflow Developments Ltd.
5. Has been installed in accordance with latest Building Regulations and IET wiring regulations by a recognised competent installer.

Airflow Developments Ltd shall not be liable for any loss, injury or other consequential damage, in the event of a failure of the equipment or arising from or, in connection with the equipment excepting only that nothing in this condition shall be construed as to exclude or restrict liability for negligence.

This warranty does not in any way affect any statutory or other consumer rights.

For detailed standard warranty terms and conditions see our website or contact Customer Service.