



Air Vent Technology Ltd,

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QSS/EC PLANTROOM FANS

Installation, Operation & Maintenance Manual

Introduction

Designed for internal applications, the QSS/EC range encompasses 7 models of direct driven centrifugal fan units with airflow duties up to 3.5m³/s

Motor windings are fitted with an auto-reset thermal cut-out.

Motors are pre-wired to an external terminal box trickle - boost speed controller & isolator.

General Construction

Casework is manufactured from 0.9mm to 1.6mm thick galvanised sheet steel with an 'O' class foam / barrier mat sandwich insulation to provide acoustic insulation.

Access is via a removable top cover.

Inspection Upon Receipt Of Goods

Immediately upon receipt of any goods, a careful inspection should be undertaken to ensure neither damage has occurred nor parts missing. Particular attention should be paid to the fan impeller, motor shaft, anti-vibration mounts, flexible connection, coil connection & casework.

In the event of such damage or loss having occurred, inform AVT (01264 356 415) WITHIN 3 WORKING DAYS of the delivery date, giving the serial number which can be found on the nameplate. After this period we will be unable to entertain any claim for loss or damage.

Handling

Units must be handled with care to avoid damage, particularly units being craned into position. A spreader bar should be employed so as to prevent damage to the top of the unit.

Installation

When installing our equipment, the following must be observed.

Safety: It is the responsibility of the installer to ensure that the installation complies with the legal regulations and the current HEALTH AND SAFETY AT WORK ACT.

Ambient Temperatures: The range of units covered by this manual are designed for use in an environment where the ambient air temperature is unlikely to exceed 40°C.

Mounting / Positioning: These units must be mounted in the horizontal plane mounted on a completely flat base. Other options available on request

QSS/EC units have integral mounting points.

Duct Connections: Adjoining ductwork should always be independently supported to avoid undue stress on the unit casing. Impellers are statically and dynamically balanced, anti-vibration mounts and fast clamps are available to suit.

Access: All units are designed with easily removable components for maintenance purposes. Sufficient room should be allowed to allow components to be withdrawn.

Electrical Wiring

Electrical supply must be fully isolated before attempting to affect any work on the unit.

All wiring should be carried out by a competent electrician and should comply fully with the current I.E.E. Wiring regulations.

The electrical supply must be as stated on the nameplate.

When the wiring is complete, check for free & correct rotation of the fan impeller

Maintenance

6 Monthly: The fan impeller should be carefully cleaned with a brush. This will prevent the impeller from becoming unduly dirty and become unbalanced.

12 Monthly: The security and integrity of all fastenings should be checked, particularly the motor mounting frame.

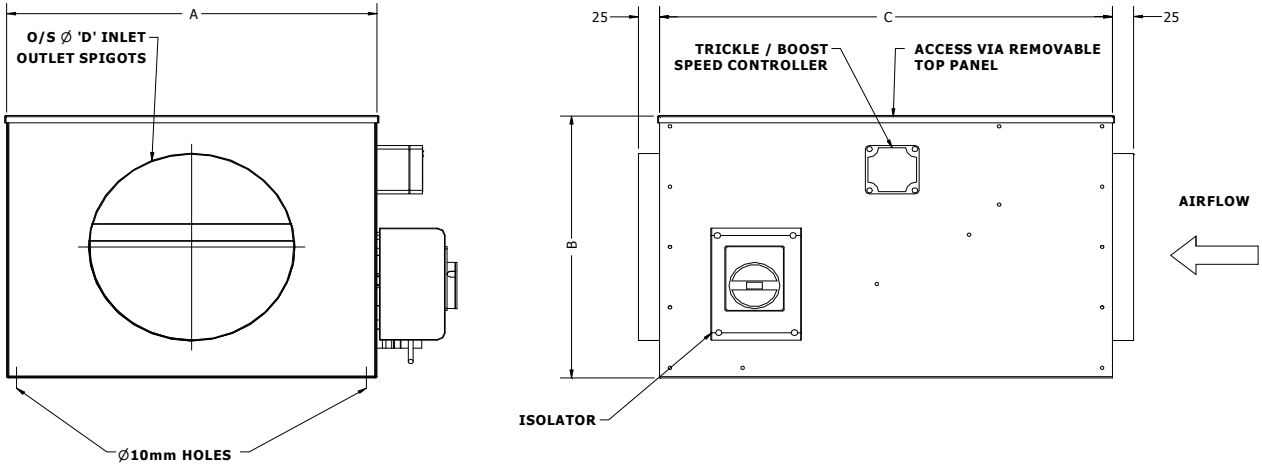
| | Motor Power | Phase | FLC |
|----------|-------------|-------|-------|
| QSS150EC | 52W | 1Φ | 0.40A |
| QSS200EC | 70W | 1Φ | 0.55A |
| QSS250EC | 170W | 1Φ | 1.40A |
| QSS310EC | 510W | 1Φ | 3.10A |
| QSS350EC | 450W | 1Φ | 2.90A |
| QSS450EC | 1.0kW | 3Φ | 1.60A |
| QSS560EC | 3.1kW | 3Φ | 4.90A |



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| DETAILS | | | | | | | |
|----------|-----|-----|------|-----|--------|------------------|----------|
| MODEL | A | B | C | D | WEIGHT | TRICKLE BOOST | ISOLATOR |
| QSS150EC | 250 | 250 | 300 | 150 | 9Kgs | YES | YES |
| QSS200EC | 350 | 250 | 400 | 200 | 14Kgs | YES | YES |
| QSS250EC | 450 | 350 | 550 | 250 | 26Kgs | YES | YES |
| QSS315EC | 550 | 400 | 600 | 310 | 32Kgs | YES | YES |
| QSS350EC | 650 | 550 | 650 | 350 | 45Kgs | YES | YES |
| QSS450EC | 750 | 650 | 975 | 450 | 74Kgs | YES | YES |
| QSS560EC | 900 | 800 | 1100 | 560 | 114Kgs | YES | YES |

