

Quick Start Guide

Installation and Operation
of JVC EC Impulse fans.

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Quick Start Guide

Delivery:

Upon receipt of fans, thoroughly inspect units for any damage sustained during transit. If damaged, contact Pacific Ventilation or your supplying distributor immediately.

Site Storage:

If the fan is not installed immediately, it should be stored in a clean, dry and preferably warm environment. Fan impellers should be rotated occasionally to prevent motor bearing damage.

Safety:

Rotating fan impellers and electric motors can be dangerous to personnel; only experienced qualified persons should carry out work on these products. The following precautions must be taken:

- Electrically isolate the fan motor prior to undertaking any work.
- Check that all fasteners, are tight prior to start up. Do not reuse locking fasteners.
- Ensure that loose debris will not be sucked into the fan prior to start up.

Electrical Supply:

Check that suitable supply is available. The voltage, frequency, number of phases and full load amperage are marked on the fan nameplate.

Wiring:

Refer to the latest product datasheet for the individual model wiring instructions. It is the responsibility of the user to ensure any required motor protection devices are fitted. It is a condition of our warranty that all equipment supplied is installed according to the requirements of AS/NZS3000:2007 Australian/New Zealand wiring rules. Check the nameplate and associated connection diagrams carefully prior to wiring. EC motors require that the power wiring and the control wiring are separated.

Motors:

The motors are suitable for operation in ambient air temperatures from -5°C to $+40^{\circ}\text{C}$. Higher ambient temperatures will result in a reduction in peak performance of the fan. Motor bearings are of sealed for life type and should not require additional maintenance.

Maintenance Checking:

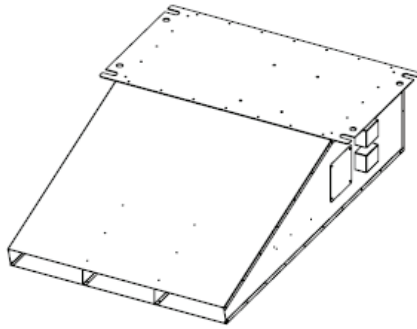
Inspection of the fan is recommended initially after 3 months to ensure that all fasteners are still tight and that the environment is not causing accelerated corrosion of fan components. For severe environments special coatings of the fan may be required. Due to the differing duty cycles of fans depending upon the installed environment, no rigid inspection and maintenance period can be recommended. It is suggested that inspection of fasteners and operation should be carried out at regular intervals not exceeding 12 months.

Maintenance Instructions:

- 1) Check that the air intake space is unobstructed
- 2) Ensure all mounting bolts are tight and undamaged
- 3) Ensure all electrical connections are tight and undamaged
- 4) Ensure fan runs cleanly and that rotating components are not touching any part of the case or inlet.

Installation:

The fan is designed to be fixed on the underside of a carpark ceiling on 4 rods or bolts that have been suitably affixed to the structure to take the load of the fan. These should be lined up with the slots on the top plate. These dimensions are provided on the datasheet for the fan model. These would typically be M8 or M10.



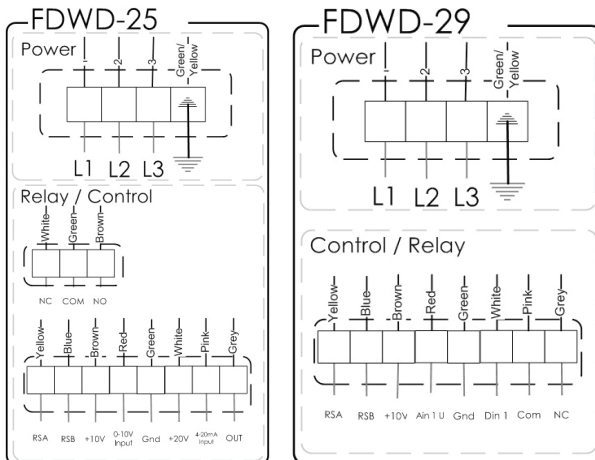
The fan shall be installed to align the discharge with the desired direction of air travel based on the carpark design. If there are obstructions on the ceiling that would impede this airflow then the fan shall be mounted in either a lower position or further back from the obstruction to avoid the impediment.

The bottom plane of the fan shall be mounted at a sufficient height from the floor to ensure that vehicles do not hit the fan when the carpark is in use.

The fan shall not be installed where the discharge velocity will negatively impact on smoke detection or sprinkler operation for the fire systems.

Wiring Diagrams:

The JVC25 and JVC50 fans are EC fans and have control built into the motor. The fans will require two sets of wiring, the first will be the line voltage to operate the fan and the second will be the control wiring to control the speed of the fan. The fans can be operated with different carpark and building management control systems, so refer to any related controls documentation for further information relating to the specific installation.



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