Fantech Jetvent Axial Impulse Fans

SAFETY INSTALLATION AND MAINTENANCE INSTRUCTION

1.0 GENERAL

1.1 The detailed description of the fan unit supplied is shown on the attached nameplate. All further information should be checked and if in doubt, contact Fantech Pty Ltd. or the nearest agent.

1.2 All Fantech equipment must be installed by personnel who are trained in the appropriate discipline,

1.3 Also, a copy of this document must be available before attempting installation.

1.4 The guards / deflectors supplied with this product comply with AS 4024.1601:2006 & AS 4024.1801:2006.

1.5 It is important that the all Installation and maintenance Instructions are correctly and fully adhered to.

1.6 **Special note**: Prior to dispatch all fan units have been inspected and mechanically run. Due consideration is given to the smooth running of the unit, electrical power input and rotational speed. Therefore, Fantech Pty Ltd expects that if handled and installed professionally the goods will give long trouble free service.

1.7 It must also be noted that impulse fans are heavy (~80kg) and must be lifted carefully to prevent personal injury or damage to equipment

1.8 Ensure that the structure supporting the fan is sufficiently strong to secure the unit. Also ensure that adequate clearance is available for the air to enter and exit the fan. The fan must be attached to the supporting structure by anchor bolts suitable for the type of structure encountered. It is recommended that the holes for the anchor bolts are predrilled as per the fan footprint (see attached drawing) prior to lifting the fan assembly. Fantech Pty Ltd does not supply these fixings.

2.0 UPON RECEIPT

2.1 The fan and ancillaries should be visually inspected for any transit damage or loss. This includes the hand rotation of the impeller within the casing.

2.2 Should any damage, concern or technical queries result from these checks then Fantech Pty Ltd. or its agent should be contacted stating the fan type, Fantech invoice / contract number and serial number.

2.3 The electrical supply for the fan unit must be as specified on the fan nameplate subject to normal supply tolerance and design conditions. Full Load currents are indicated on the fan nameplate

3.0 STORAGE

3.1 If the fan is not to be used immediately, it should be stored in a clean dry place.

3.2 If the fan is to be subjected to any vibration in its stored location or is going for storage for longer then one month then Fantech Pty Ltd. or its agent should be consulted for special instruction in writing.

4.0 START UP

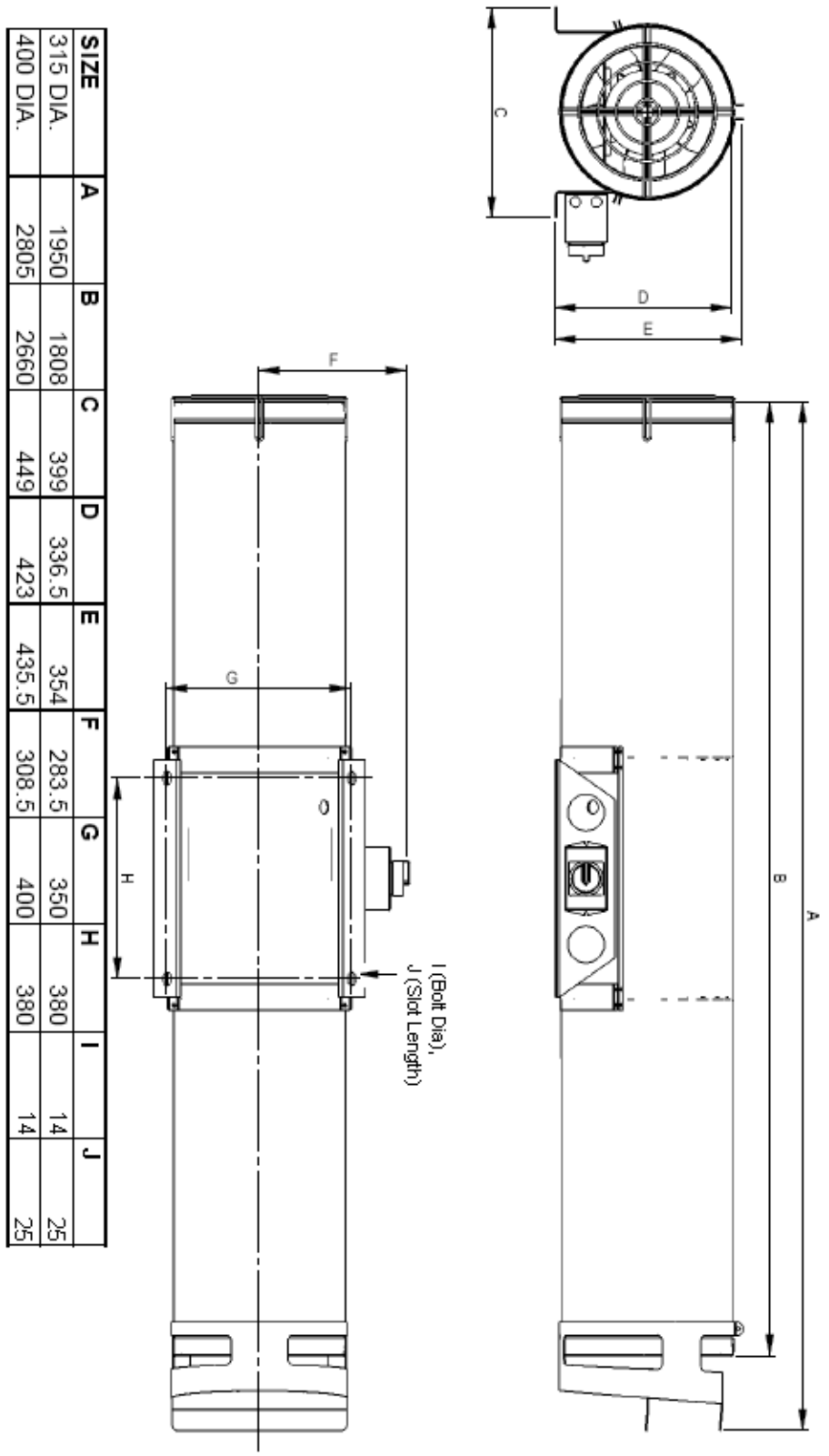
4.1 Once all electrical circuits have been checked with the connection diagram supplied – power may be supplied to the unit.
4.2 Upon initial start-up, ensure that the fan rotates in the correct direction. Confirm that the direction of fan discharge and installed location matches any schematic sketches or layouts of the installation.
4.3 Should it be suspected that the impeller is contacting the casing, the unit should not be run until a check is made to ensure that an adequate 'running tip clearance' exists between the casing and impeller. Also check that the gap is evenly spaced at various positions in the casing.
4.4 If the impeller needs centralization within the casing then it must be carried out prior to any further running.
4.5 A further run of about 30 minutes duration should be made so as to ensure smooth trouble free operation within the control circuits.
4.6 Once these check runs have been satisfactorily carried out and the equipment is checked to conform with essential Occupational Health and Safety (OH&S) requirements, then it can be consider to be adequately installed.

5.0 FAN MAINTENANCE

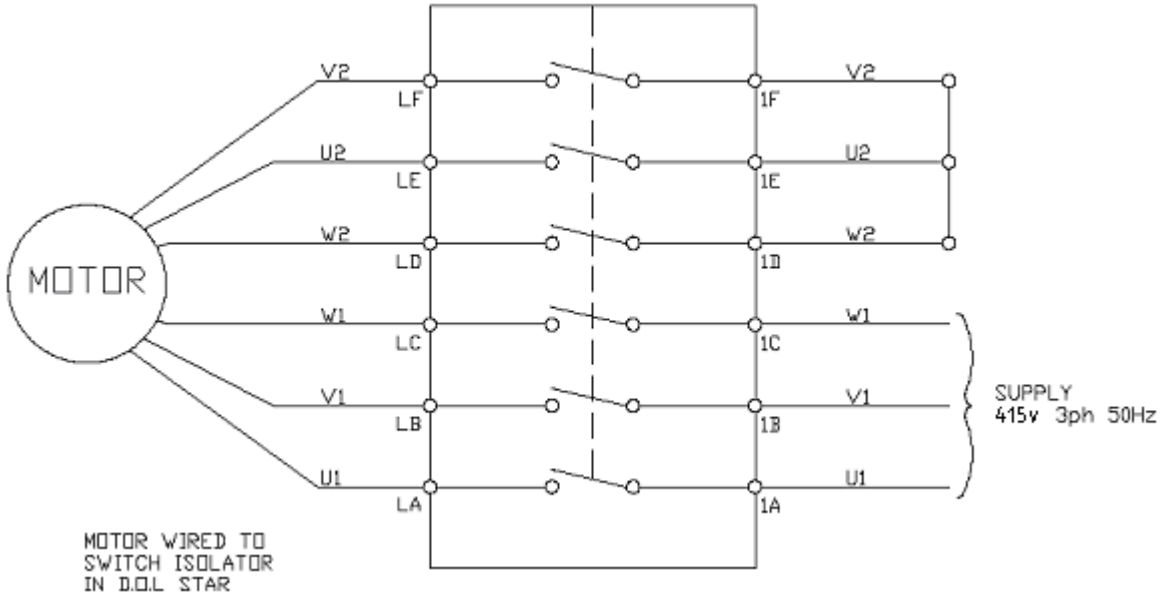
5.1 Due to the different periods of operation, no rigid inspection and maintenance period can be recommended. It is suggested therefore that inspection and, if necessary, fan cleaning (by non abrasive means) is carried out at regular intervals of at most 5,000 running hours or 12 months, whichever comes first.
5.2 All fastenings, of whatever type, should be checked for tightness. The integrity of the rotating items should be checked
5.3 Bearings are a 'sealed for life' type and hence will not need detailed inspection. The motor's cleanliness however must be checked, especially in relation to the cooling fan and/or fins, if fitted.
5.4 If it should be necessary to remove the impeller, then care must be taken and no undue force used. By removal of the central hub bolt and tab washer the impeller can be removed by pulling the outside diameter of the hub (Not the blade). Should the impellor fail to detach itself in this manner, please contact Fantech Pty. Ltd. or its agent for further advice.

DIMENSIONED DRAWING & FOOT PRINT

SIZE	A	B	C	D	E	F	G	H	I	J
315 DIA.	1950	1808	399	336.5	354	283.5	350	380	14	25
400 DIA.	2805	2660	449	423	435.5	308.5	400	380	14	25

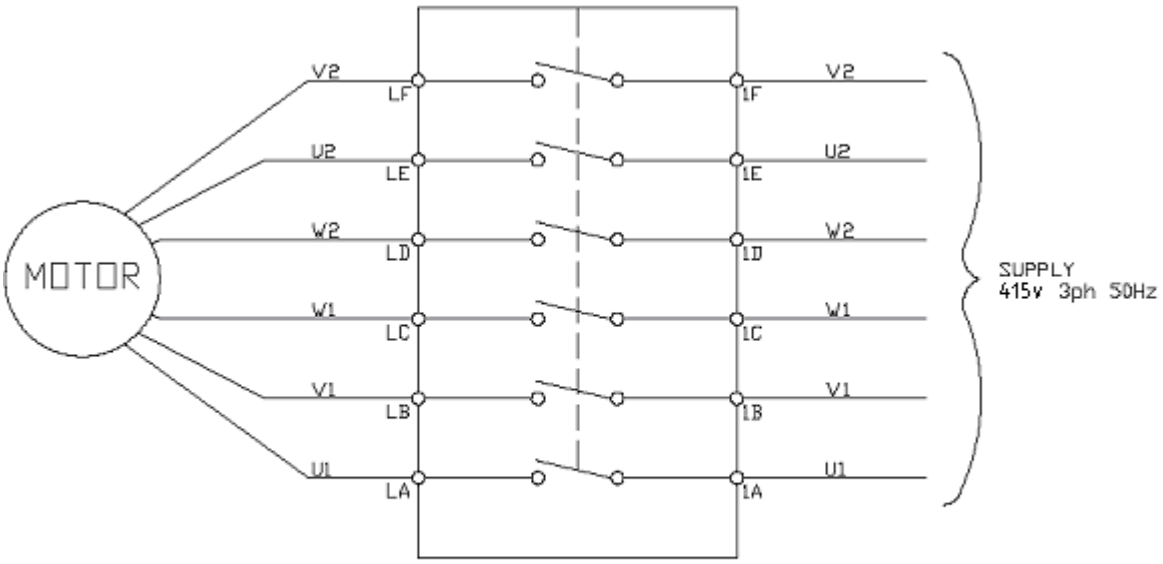


WIRING DIAGRAM FOR SINGLE SPEED DIRECT ON LINE STARTING (STAR)



MOTOR WIRED TO
SWITCH ISOLATOR
IN D.O.L STAR

WIRING DIAGRAM FOR TWO SPEED SINGLE WINDING MOTORS



MOTOR WIRED TO
SWITCH ISOLATOR

LOW SPEED
SUPPLY U1,V1 & W1

HIGH SPEED
SUPPLY W2,U2 & V2
AND LINK U1,V1 &W1

GOODS AND WARRANTY

1. When supplying goods to a consumer, the following mandated statement applies:
   "Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure."

2. The benefits of this warranty are in addition to any rights and remedies imposed by Australian State and Federal legislation that cannot be excluded. Nothing in this warranty is to be interpreted as excluding, restricting or modifying any State or Federal legislation applicable to the supply of goods and services which cannot be excluded, restricted or modified.

3. Subject to the conditions and limitation below, the Company warrants products of its manufacture to be free of defects in workmanship and/or materials at the time of delivery to the Buyer.

4. Any part, assembly or portion thereof found to be defective within one year from the date of commissioning or eighteen (18) months from date of shipment from our factory, whichever is the sooner, unless expressly stated otherwise in the Company's Publications or Literature, will be repaired or exchanged F.O.B factory.

5. The Company reserves the right to replace defective parts of the goods with parts and components of similar quality, grade and composition where an identical component is not available.

6. Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods.

7. Goods or parts that have been returned for repair (except where the repair is as a result of the Company's failure to comply with the statutory guarantees in the ACL) or warranty assessment are deemed to have been abandoned by the Buyer if not collected within 30 days after the Company has notified the Buyer in writing of the warranty assessment outcome or the completed repair.

8. The Company reserves the right to dispose or otherwise deal with an abandoned product or part at its discretion.

9. This warranty does not apply if:
   (i) the goods have not been paid for by the Buyer as per the credit terms provided; or
   (ii) the goods have not been installed in accordance with AS NZS 3000/2000 Australian/New Zealand Wiring rules; or
   (iii) the goods have been misused or neglected.

10. The Company assumes no responsibility under this warranty for the labour costs involved in the removal of defective parts, installation of new parts or service charges related thereto.

11. If a fault covered by this warranty occurs, the Buyer must first contact the Company at the contact address listed below.

12. Any warranty claim must be accompanied by:
    (i) proof of purchase;
    (ii) written details of the alleged defect; and
    (iii) appropriate documentation (such as installation and maintenance records etc).

13. The Company shall have the option of requiring the return of the defective part (transportation prepaid by the Buyer) to establish the claim.

14. The Company makes no warranties or representations other than set out in this clause 7.

15. The repair or exchange of the goods or part of the goods, is the absolute limit of the Company's liability under this express warranty.

FANTECH
Intelligent Ventilation

Fantech Contacts

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