

KRUGER

General Instructions **IJM Series**



IGB038.E2/2002



This manual is to guide the users in the proper storage, installation, operation and maintenance procedures to ensure maximum equipment life and trouble-free operation. **HANDLING AND MAINTENANCE SHOULD ALWAYS BE PERFORMED BY EXPERIENCED AND TRAINED PERSONNEL.**

RECEIVING, HANDLING AND STORAGE

Rough handling during shipment and improper storage can cause damage which is difficult to notice until the fan is in operation. This can be avoided with proper storage and handling techniques.

Fan should be hoisted with slings placed around the fan housing. Touch up the scratched coated surfaces during lifting, to prevent corrosion to occur at this area. Store the fan in a clean and dry place, preferably indoor to ensure motor shaft, bearing and fan casing are protected against dust and corrosion. Do not store the fan in a location where it will be subjected to vibration. This can cause the internal surface to rub against each other and damage the bearings.

START-UP CHECK LIST

Before putting any fan into initial operation the manufacturer's instruction must be followed. Complete the following checklist to make sure that the fan is ready to run.

- Lock out the primary and all secondary power sources.
- Make sure the mounting arrangement is adequately designed in accordance with recognized acceptable engineering practices and with the fan manufacturer's recommendations.
- Check and tighten all hold-down (securing) bolts.
- Properly secure the protection net.
- Switch on the electrical supply and allow the fan to reach full speed.
- Check carefully for :
 - (1) Excessive vibration
 - (2) Unusual noise
 - (3) Proper amperage and voltage values

If any problem is indicated, switch off the fan IMMEDIATELY. Lock out the electrical supply, check carefully for the cause of the trouble and correct as necessary.

The fan may now be put into operation but during the first 8 hrs of running, it should be periodically observed and checked for excessive vibration and noise. Inspection should be made on input current and fan housing temperature and make sure they do not exceed the manufacturer's recommendation. After 8 hrs of operation, the fan should be shut down to check the following items:

- (1) All set screws and hold-down bolts
- (2) Fan housing temperature

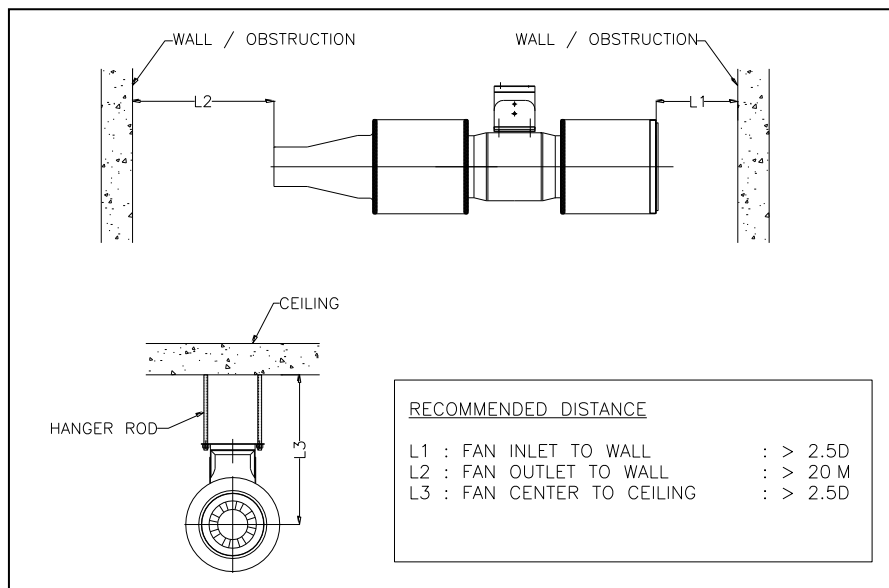
INSTALLATION

The construction of the IJM series Jet fans enables them to be fitted anywhere into the ductless system.

Firstly, fix the support bracket assembly in position where the Jet fan is to be located. It is recommended that the fan to be installed at least one meter calculated from away from obstructions inlet & outlet. The fan body should then be fixed to the support by tightening the fixing screws.

In order to avoid losses in efficiency and performance, it is recommend that the fan be installed with a distance of 2.5D between fan inlet and the ceiling.

Installation Method



WIRING

Warning: The appliance must be earthed.

1. The Jet fan is equipped with a single phase motor which should be connected to a single phase mains supply of the voltage and frequency given on the rating plate.
2. There should be a double pole isolator switch (min. air gap 3mm) in the supply wiring to the unit.
3. The Jet Fan is fitted with a two-speed motor. Therefore the fan can also be speed controlled.
4. A terminal box is incorporated to provide easy installation. The connection should be made according to Fig. 1
5. It is advised not to remove any components, as any tampering would automatically cancel the KRUGER guarantee.

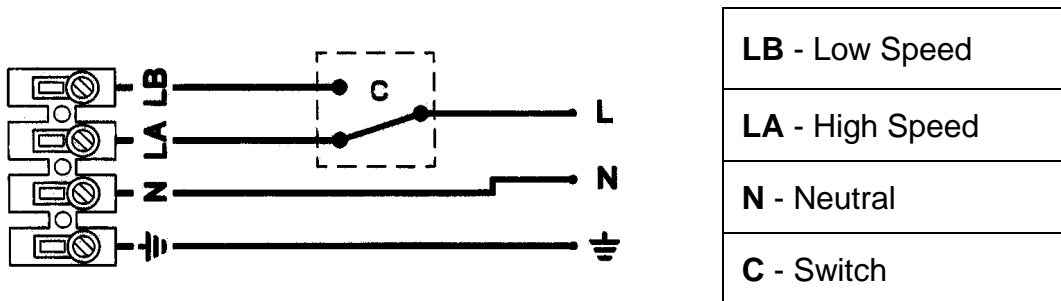


Fig. 1

TROUBLE-SHOOTING

Fan is developing or emitting abnormal or excessive noise

Possible cause	Remedy
<ul style="list-style-type: none"> • Impeller/inlet dirty or clogged • Incorrect speed of impeller 	<ul style="list-style-type: none"> • Clean the impeller or inlet • Check power supply, frequency

Required air volume not achieved
Fan does not start or operate

Possible cause	Remedy
<ul style="list-style-type: none"> • Impeller/inlet dirty or clogged • Incorrect speed of impeller 	<ul style="list-style-type: none"> • Clean the impeller or inlet • Check power supply, frequency

Possible cause	Remedy
<ul style="list-style-type: none"> • Blown fuses • Electricity shut off • Wrong voltage • Low voltage, excessive line drop or inadequate wire size 	<ul style="list-style-type: none"> • Check fuses/circuit breakers • Check for switched off or disconnected • Check for correct power supply • Check for correct wire size

ROUTINE MAINTENANCE

Maintenance should always be performed by experienced and trained personnel. Do not attempt any maintenance on a fan unless the electrical supply has been locked out or tagged out and the impeller has been secured.

Under normal circumstances, when handling clean air, the system should require cleaning only about a year. However, the fan and system should be checked at regular intervals to detect any unusual accumulation.

The fan impeller should be specially and checked for build-up of material or dirt which may cause an imbalance result in undue wear on bearings. A regular maintenance program should be established to prevent material build-up.

Periodic inspection of the rotating assembly must be made to detect any indication of weakening of the rotor because of corrosion, erosion, or metal fatigue.

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