

# Mini Jet Fan

## MAINTENANCE MANUAL





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## **1. Purpose of the operation and maintenance manual**

These fans are produced on modern machines and equipment. The rotor (Impellers with shaft) are carefully balanced. Each fan is controlled and tested before it leaves factory.

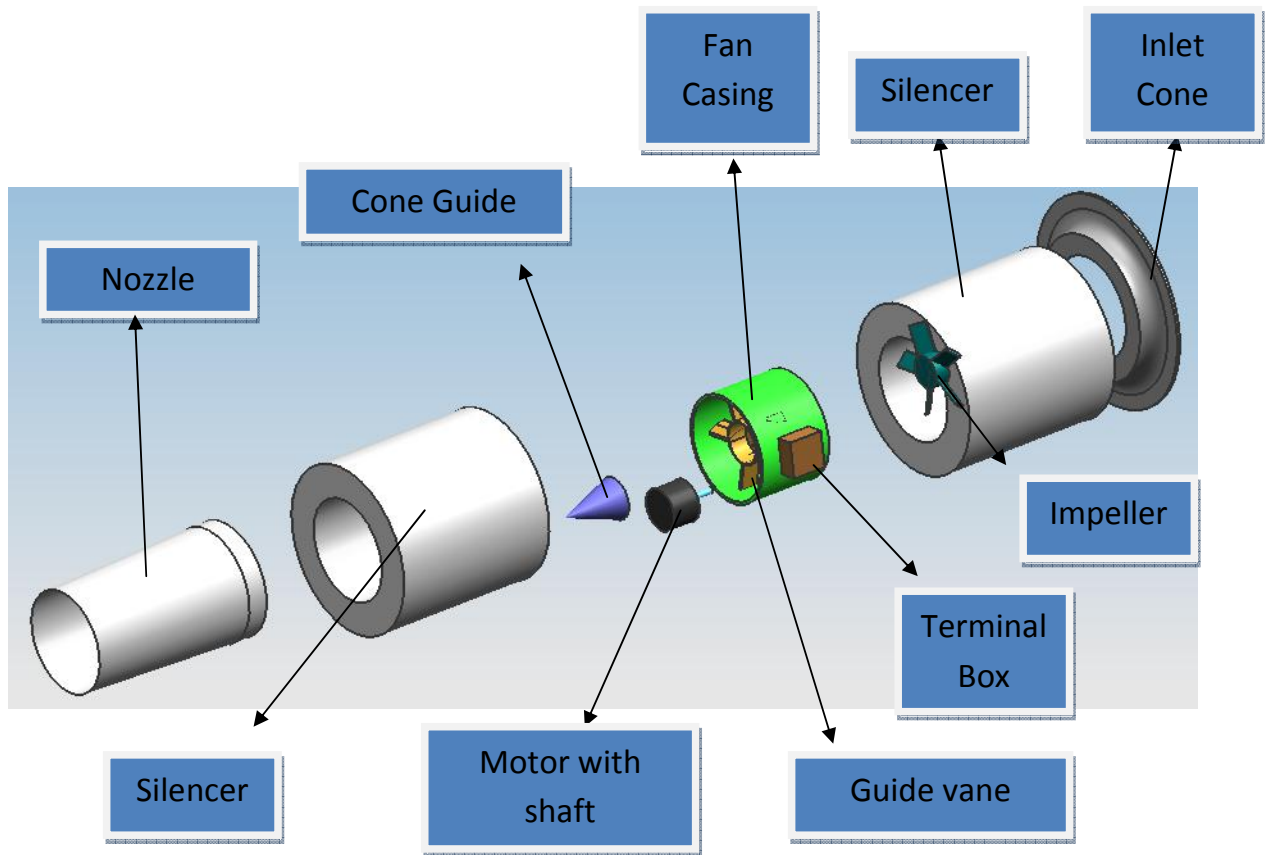
We hereby express the way of instruction as follows.

- Installation
- Electrical work
- Precautions for installation
- Maintenance Guidance

Technical Department  
Lti Ventilatoren Asia P/L.  
Tel : (65)-65646678  
Fax : (65)-65646166

## 2. Installation of the JET Fan





### **3. Installation and operation**

#### **1) Installation**

- (1) The fan unit can be installed in any position.
- (2) The fan unit is directly suspended by M10 – equivalent hanger bolts.
- (3) Make sure the bottom of the unit must be at least 150mm clear of obstacle and at least 800 mm from the nozzle tip.
- (4) Anti-vibration members are used when required but mostly the fan unit is equipped with rubber pad between fan and motor.

#### **2) Electrical work**

- (1) Connect the leads (with round terminals) found in the fan unit. External terminal box to the primary power source ( 1 Ph x 220 Volt x 50 Hz)
- (2) Connect the ground wire in the External terminal box to prevent accidents involving electric shocks



## Precautions for installation

### 1) Place of installation

(1) The fan unit is for indoor use only.

Never use it outdoors.

(2) Ambient conditions

- Temperature : 0 to 40 degree C

- Humidity : 90 % RH max.

(3) The fan should be installed in a clean environment and free from inflammable, corrosive or toxic gases.

(4) No dew formation.

## 4. Inspection Articles

1) Check the following when the fan unit does not start, or in case of an abnormality.

Problem	Item to be checked	Where to look	Action
The fan cannot start	<b>Power source</b>		<b>Check the circuit</b>
	<b>Defective wiring</b>	Inside the terminal box	<b>Connect cables correctly</b> <b>Tighten the terminals</b>
	<b>Electric circuit</b>	<b>Terminal Breaker</b> <b>Voltage drop</b>	<b>Check voltage individually after disconnecting the secondly wiring</b>
	<b>Fan</b>	<b>Defective motor insulation</b>	<b>Check and correct insulation resistance</b>



2) Check the following in case of a problem after installation

Problem	Item to be checked	Where to look	Action
<b>Abnormal current</b>	<b>Ammeter</b>	Current rating exceeded Large deflection or indicator Defective ammeter	
	<b>Motor</b>	Defective insulation  Bearing  Defective wiring	Check insulation resistance Check vibration & abnormal noise Tighten the terminals
	<b>Supply voltage</b>	Incorrect voltage	Check voltage
	Inclusion or foreign matter	Water, cloth and paper	Remove
	Clogging	Suction opening	Remove
<b>Abnormal sound</b>	Quantity of air	Clogged suction opening, inclusion of foreign matter	Remove
	Installation	Fan unit Fan body	Tighten hanger bolts Tighten hanger bolt
	Fan	Impeller in contact Defective motor	Correct or replace
<b>Abnormal vibration</b>	Installation	Fan unit Fan body	Tighten hanger bolt Tighten mounting bolts
	Fan	Unbalanced impeller (Contact, break, corrosion)	Correct or replace