



ROOF UNITS LIMITED

Blackbrook Road, Narrow Boat Way, Dudley, West Midlands, DY2 0NB **Tel : (01384) 418670**

Fax: (01384) 418681

• STORAGE / INSTALLATION

The unit must be stored in clean, dry conditions. DO NOT install these fans in areas where the following may be present:-

- 1) Excessive oil or grease laden atmosphere.
- 2) Corrosive or flammable gases, fluids or vapours.
- 3) Ambient temperatures higher than 40°C and below -15°C.
- 4) Relative humidity above 95%
- 5) Possible obstructions which will hinder removal.
- 6) Sudden ductwork transformations close to the unit.

If the unit is to be stored for a long period of time the fan impeller must be rotated by hand at monthly intervals to prevent hardening of the lubricant and corrosion or static indentation of the bearings.

It is recommended that before installation the resistance to earth should be measured and if found to be less than 2 M Ω the motor should be dried out before applying mains voltage.

Accessories.

Please ensure the following is adhered to;

- When fitting clamping bands to flexible connectors ensure that ducts are not misaligned.
- Single Fan Unit; fix bracket into position by putting the unit with two of its mounting bolts in place. Slot the unit into the bracket which will carry the units weight whilst the mounting bolts are secured. Twin Fan Unit; install via the mounting brackets fitted and the eight pre-drilled holes.

• IMPORTANT - SAFETY

All air moving equipment may present electrical, mechanical or noise hazards either during installation or during operation. These instructions are meant to help in the prevention and / or minimisation of these hazards. It is important that due consideration is given to the implementation of these instructions and to due attention being given to applicable statutory requirements.

Potential hazards from rotating parts that can be reached during operation must be eliminated by using appropriate guards meeting statutory requirements.

All electrical installation must be undertaken by a suitably qualified and competent person and must be carried out in accordance with all relevant Statutory Requirements. Please check the details on the unit rating plate to ensure that the correct power supply (Voltage, Frequency, and Phase) is available. Do not use the fans with an incorrect power supply, overheating and failure of the motor will occur.

All fans generate noise during operation. Dependant on the installation sound attenuators or other acoustic treatment may be necessary to achieve acceptable noise levels in the ventilated area or the area surrounding the fan installation. The product catalogues indicate the noise levels generated by the equipment in standard test situations. The installed condition may affect the actual noise levels experienced in operation.

Please note a wide range of accessories for this product are available from Roof Units Limited.

• GENERAL WIRING

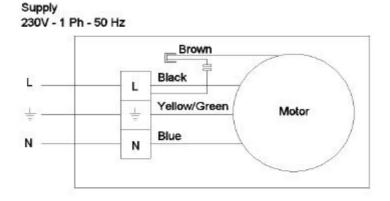
<u>Warning:-</u> The Fan And Ancillary Control Equipment <u>Must</u> Be Isolated From The Power Supply During Installation And / Or Maintenance. The Equipment Must Be Earthed.

Remove the cover from the fan terminal box. Connect the power supply from the local isolator (via any appropriate controls if fitted) to the terminal box via an appropriate cable gland. Refer to the wiring diagrams and select the appropriate connections for the fan, controller or other devices as being installed. Ensure that all earth connections have been made and that no connection is made to the brown motor wire.

After completing and checking the connections to the terminal box replace the lid ensuring that it is correctly seated in place. Ensure that all cable gland / grommet fixings and terminal box lid fixings are tightened correctly to prevent water ingress.

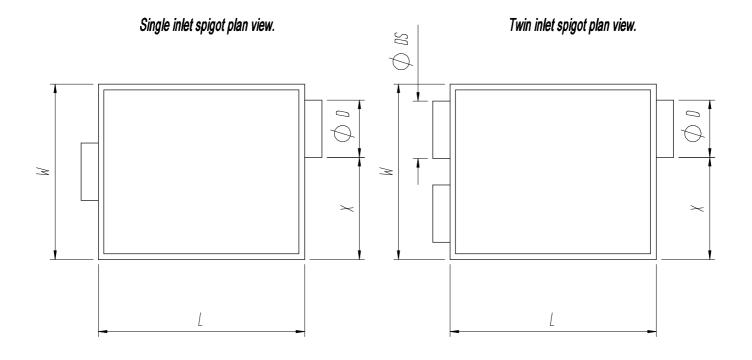
Fuses in the circuit should be regarded as only protecting the wiring against short circuits or earth faults; they are not suitable for overload protection. Fuse ratings must be able to carry starting loads, which can be taken as a maximum of six times the running current for 25 seconds.

All fans have internal HOT SPOT protection, which is self re-setting.



CHECK LIST

- 1) Are all links and wiring complete (refer to wiring diagrams)?
- 2) Are all fixings secured?
- 3) Are all relevant guards fitted?
- 4) Are all protective circuit devices fitted and wired correctly?
- 5) Are all terminal box covers and gland fittings secure?
- 6) Are all earth connections secured?
- 7) Check that no hazard exists for persons in the locality of the fan. Check that the fan rotation is correct as per the direction arrows on the fan plate / casing. If not isolate power supply and check wiring.
- 8) Check that the current (amps) taken by the fan does not exceed the current shown on the rating plate.



AIRFLOW

Side elevation.

Model	L	W	H	ϕ D	ϕ DS	X	Weight (kg)
SLP100	360	306	160	100	100	178	8
SLP125	360	306	160	125	100	165	8
SLP150	360	306	180	150	100	140	9
SLP200	415	360	235	200	125	140	13
SLP250	415	360	285	250	125	90	15
SLP315	450	400	350	315	150	65	17
SLPT200	760	490	235	200	150	205	20
SLPT250	865	590	285	250	200	233	32
SLPT315	955	650	350	315	250	240	39
SLP100DC	360	306	160	100	100	178	8
SLP125DC	360	306	160	125	100	165	8
SLP150DC	360	306	180	150	100	140	9
SLP200DC	415	360	235	200	125	140	13
SLP250DC	415	360	285	250	125	90	15

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RESPONSIBILITY

Roof Units Limited, as suppliers of the equipment cannot be responsible for the final installation and electrical connection of the product on site. We have made reasonable effort to offer guidance and assistance but the installer and electrical contractor on site have a responsibility for ensuring the equipment is safely and securely installed and electrically / mechanically safe in accordance with statutory requirements.

The fans are supplied as a component to be incorporated into a ventilation system. The final complete system installation that includes the fans MUST meet all relevant directives.

INSPECTION

These pieces of equipment require maintenance, cleaning and inspection, therefore allow reasonable access for these operations to be carried out by a suitably qualified person safely.

ISOLATE FROM POWER SUPPLY AND ENSURE POWER CANNOT BE RE-CONNECTED BEFORE ANY WORK IS CARRIED OUT.

It is recommended that the fan be inspected after three months or sooner if conditions dictate. If a build up of dirt/deposits is evident then this should be carefully cleaned off. Please take care not to damage the fan or affect the balance of the impeller motor assembly (balance weights may be fitted to the impeller).

Further inspections should be carried out periodically as necessary dependant on experience / site conditions. A minimum of two inspections per year is recommended.

The fan motors are fitted with "sealed for life" bearings and, under normal circumstances, should not require maintenance.

Roof Units Limited Guarantee

Roof Units will, free of charge, within a period of 1 year from the date of dispatch from their works repair or at its option replace any fan which are proved to their reasonable satisfaction to be defective in material or workmanship unless:-

1) The goods have been altered in any way

2) The goods have been improperly installed or connected or

3) The buyer has failed to notify Roof Units of any defect or suspected defect within 14 days of the same coming to the knowledge of the buyer.

4) Any goods replaced will belong to Roof Units. Any repaired or replacement goods will be guaranteed on these terms for the unexpired portion of the 1 year period.

5) Otherwise subject to our standard terms and conditions.

The goods returned to Roof Units works carriage paid to enable examination, repair or replacement.

Roof Units Limited reserves the right to alter specification without notice.





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Revision 'A', 20/07/01.

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