

USER MANUAL

Installation Operation and Maintenance Manual for

CRE/CRS
Roof Units

SKYLINE
Roof Units

MFC/MFP
Roof Units

This manual must be read in full before installation, operation and maintenance of the units supplied.

PLEASE ENSURE THAT THIS INSTRUCTION DOCUMENT IS
PASSED ON TO THE USER OF THE UNIT



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WEEE Directive

At the end of their useful life the packaging and product should be disposed of via a suitable recycling centre. Do not dispose of with normal household waste. Do not burn

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INSPECTION ON RECEIPT OF GOODS

Immediately on receipt of goods check for possible damage in transit paying particular attention to

Fan impellers - damaged blades - Ensure impeller spins freely
G.R.P. base and cowl
Motors/Shutters - damaged blades

Please also check to ensure that ancillary items are included. These will normally be supplied separately or taped to the unit in the case of small items.

In the event of any damage having occurred, or any item found to be missing it is essential to inform VES Andover Ltd WITHIN 7 DAYS of delivery, quoting S/O No. and unit type from the nameplate. After this period we will be unable to accept any claim for damaged or missing goods.

GENERAL NOTES

Take care when lifting roof units with profiled soaker sheet bases fitted. Do not lift heavy units solely at the ends of the soaker sheet as this could cause the G.R.P. base to crack. Do not wire up and run the unit until it has been securely and permanently fixed in position on the roof.

INSTALLATION OF UNIT WITH PROFILED SOAKER SHEET BASE

Take all necessary safety precautions when working on roofs. Allow only experienced fitters to do this work.

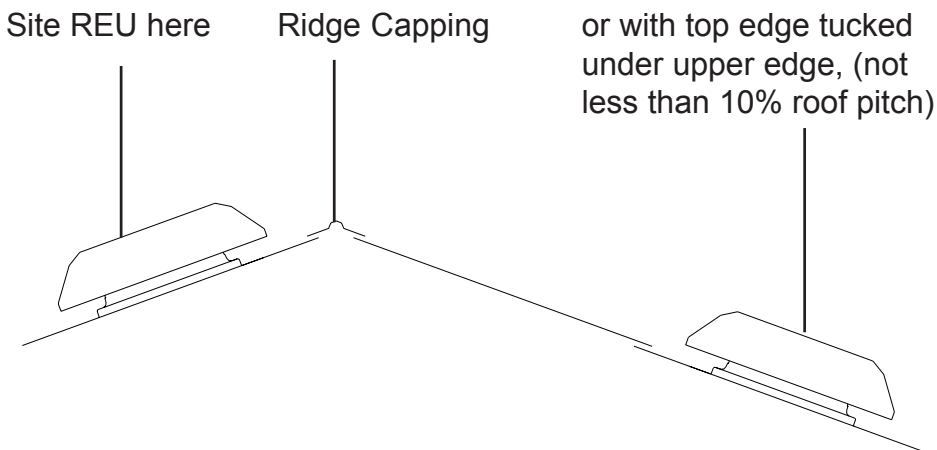
The Skypod unit complete with soaker sheet is designed for sloping roofs only, to a maximum pitch of 30°

Before cutting into the roof ensure that the correct profile base has been purchased. Many of the profiles supplied are of a similar appearance, but dimensionally different. For example Double Six Metric and Double Six Imperial.

Location of Profiled Base Roof Units

These are designed for sloping roofs only. It may not always be possible to install the units in their most optimum position. The following points should be borne in mind when considering the siting of units.

(i) On existing asbestos roofs we recommend that the top edge of the soaker sheet be installed under the ridge capping, however good weathering can also be achieved further down the roof provided the soaker sheet top edge tucks under an existing roof sheet.

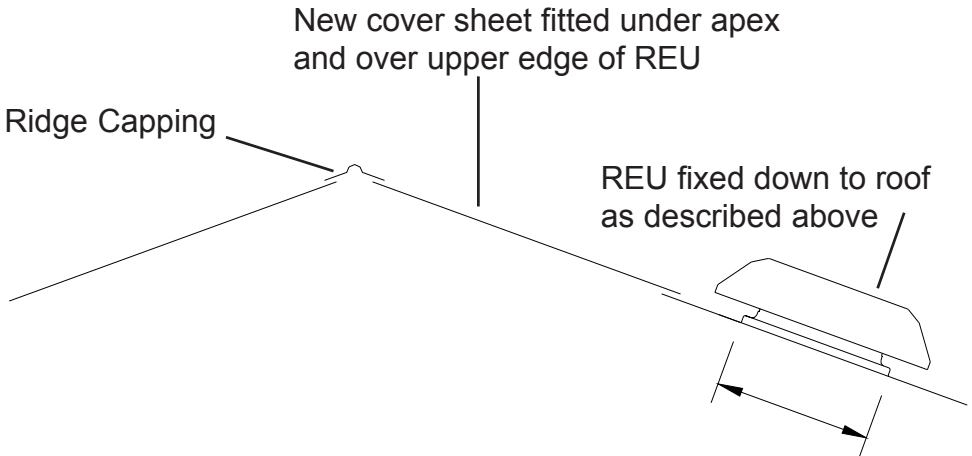


(ii) On modern metal decking roofs, the roof sheets can be up to 8m long and are often riveted and/or glued down. It is therefore impractical and unwise to attempt to lift these sheets and install the roof unit as described above for an asbestos roof.

In these circumstances we recommend that a sufficiently sized hole be cut in the location required for the roof unit (refer further on in this leaflet for hole sizing).

The roof unit should then be positioned over the hole and fixed down by means of proper roofing bolts and sealed all round.

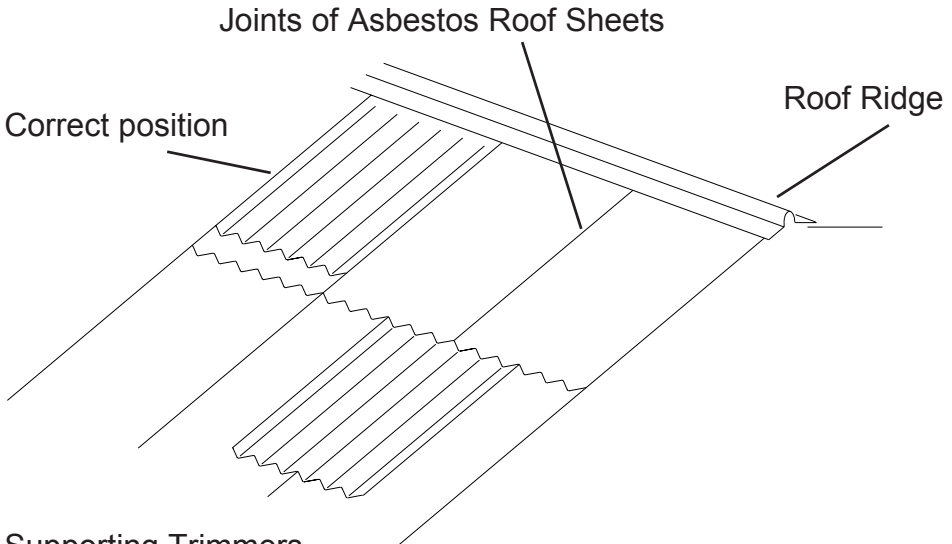
A cover sheet run from the apex, or tucked under the next sheet up the roof, should then be fitted to overlap the upper edge (see diagram below).



(iii) If locating roof units in roof lights, trimmer supports may be necessary, but bear in mind that light restrictions will also occur.

(iv) Care should be taken to avoid siting roof units directly above tie bars or purlins which may obstruct the fan.

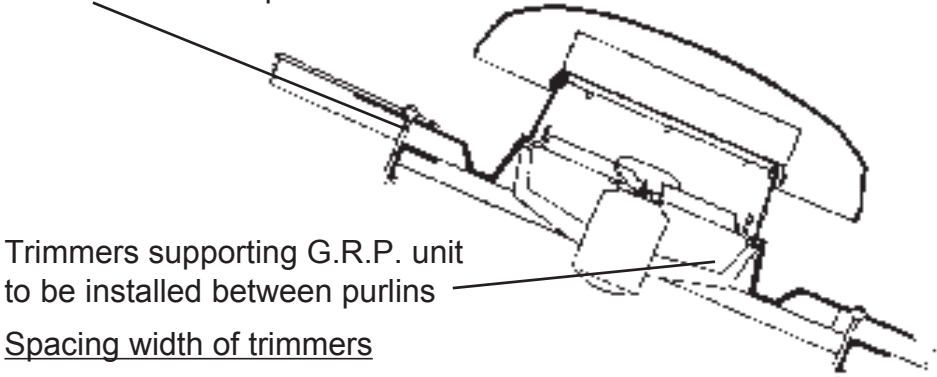
(v) On asbestos roofs, the unit must sit central to any one sheet and not where two sheets join together.



Supporting Trimmers

These are recommended for SKYLINE sizes SLP630 to SLP800 and essential for size SLP1000.

Hook bolts to roof purlins

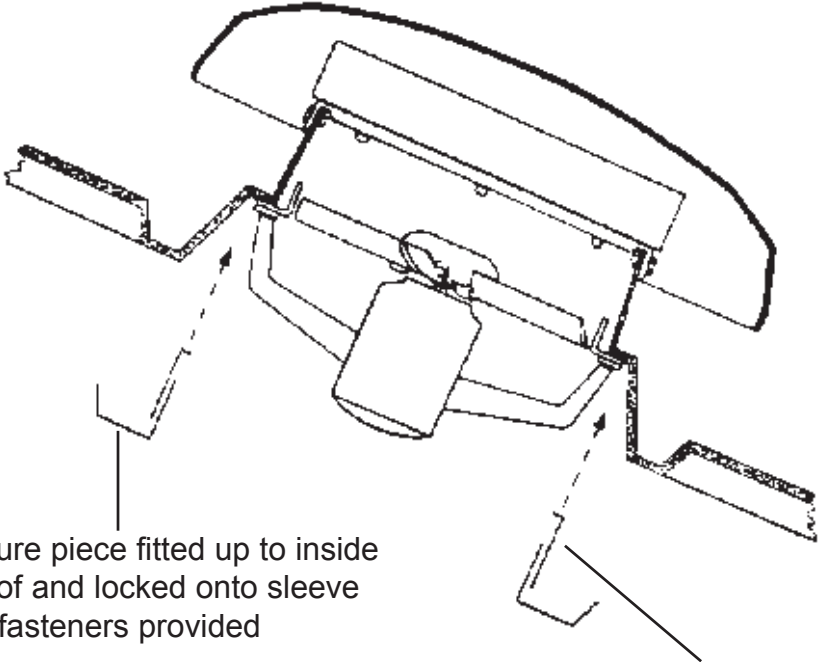


Spacing width of trimmers

- SLP630 - 710mm
- SLP710 - 915mm
- SLP800 - 960mm
- SLP1000 - 1200mm

Closure Pieces

For double skinned and insulated roofs, closure pieces are recommended to tidy the appearance of the roof and contain any loose fibreglass insulation.



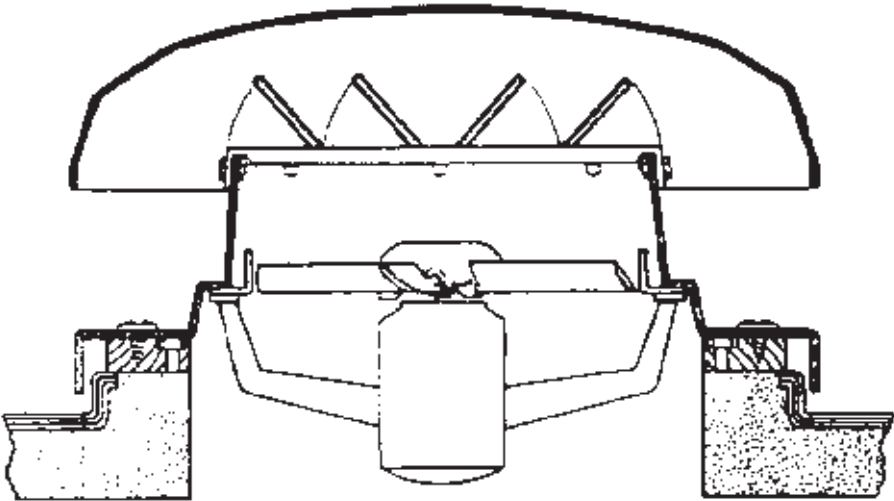
Closure piece fitted up to inside of roof and locked onto sleeve with fasteners provided

Sleeve fitted onto fan plate at VES factory

INSTALLATION OF UNIT WITH CURB BASE

Curb Mounted Units

These units are intended to sit on top of a prepared roof upstand dimensions of which are available from the appropriate leaflet of the VES product manual. We recommend that each unit be fixed to its upstand by means of coach screws screwed downward through the pads provided into the timber upstand. A plastic washer or similar should be located between the G.R.P. base and bolt head sealed against the weather. Do not over tighten these bolts since cracking of the base may subsequently occur, and the seal formed by the washer made ineffective.



If the unit is installed where there is a possibility of persons or objects coming into contact with the impeller a motor side guard should be fitted.

It is the responsibility of the installer and user to ensure that the installation complies with the legal requirements of the current Health and Safety at Work Act.

ELECTRICAL WIRING

All electrical connections to any unit must be carried out in accordance with the current edition of the I.E.E. REGULATIONS and only competent Electricians should be allowed to effect any electrical work to our units.

Before attempting to carry out any maintenance work or repair work on our units, the unit **MUST BE COMPLETELY ISOLATED** from its electrical supply.

Do not connect any unit to an electrical supply voltage outside of that indicated on the motor nameplate.

Direction of Airflow - All SKYLINE, Mixed Flow roof units and CRE centrifugal roof units are supplied for extraction of air. i.e. air over motor and then through impeller to atmosphere.

Model CRS centrifugal roof unit is designed to supply air INTO a building.

Models CRE and CRS are prewired to a two pole isolating switch.

When the wiring is complete check free running of impeller prior to starting. Check the direction of airflow on start up to ensure correct wiring and direction of rotation.

If a speed controller is being fitted, study wiring and set up procedure carefully at time of installation.

MOTOR SPECIFICATION

Skyline and Mixed Flow

Motors are aluminium cased, with sealed for life maintenance free bearings. High temperature overheat protection is fitted to all non-flameproof single phase motors. Suitable for continuous operation up to 95% RH and temperature range -40°C to +50°C. Electrical supply 220-240 volt, 50Hz, 1 phase and 380-420 volt, 50Hz, 3 phase.

CRE and CRS

Motors are aluminium cased with ventilated enclosure and permanent split capacitor. Insulation is to Class B. The bearings are permanently lubricated sleeve type. Suitable for operation up to 40°C. Electrical supply 220-240 volt, 50Hz, 1 phase.

MAINTENANCE

In general these products require very little maintenance. All fan and motor bearings are supplied fully greased, lubricated and sealed for life. We do however recommend the following annual inspections.

- (i) G.R.P. bases - Check for signs of cracks or possibility of water leakage.
- (ii) Impellers - Check free running. Clean from time to time since a build up of dirt could reduce performance or cause out of balance vibrations.
- (iii) Shutters - Check they are operating smoothly and are all intact. Clean or replace if necessary.
- (iv) CRS centrifugal supply units usually have a disposable filter below the cowl. Replace every few months.

SPARES AND REPAIRS

Contact the VES Customer Services Department.

Quote the S/O No. and unit type from the nameplate on the case.

WARRANTY

Warranty

Extended Warranties

All VES Andover Products come with a one year guarantee from date of dispatch, which covers parts and labour.

You can now extend this with the following options:

Option 1. **FREE extended Warranty**

We can offer you a maintenance agreement that keeps this equipment in tip-top condition.

If you take out this agreement, we will extend the warranty **free of charge for up to 5 years**, providing the regular maintenance agreement remains in place.

Option 2. **12-24 Month Extended Warranty**

12-24 months from the date of dispatch. This can be covered at a cost of just 3% of order value. (minimum charge £50.00).

Option 3. **12-36 Month Extended Warranty**

12-36 months from date of dispatch. For this cover, the charge is 6% of order value (Minimum charge £80)

Please State which option you require when you place your order. A transferable certificate will then be issued to you.

Please note, this offer excludes condensing units. We would be happy to quote you for these separately.

Register for separate spares reminders and get a 10% discount

Register for this free service and we will automatically send you a regular reminder detailing the consumable spares for this unit, together with their current list prices.

You will then be entitled to a 10% discount off any spares.

To arrange any of these options.

or **Phone: 023 8046 1150**
Email: spares@ves.co.uk

Stating the sales order and reference number from the unit.