



Automatic Electric Hot Air Hand and Face Dryer

Stock No. 273-113

General

The RS automatic hand and face dryer is suited for heavy duty applications, manufactured from vandal resistant pressure die cast aluminium with an epoxy/polyester powder coat.

Installation

WARNING - This appliance must be earthed.

- Complete installation to solid supporting structure before making electrical connections.

THIS UNIT MUST ONLY BE FITTED BY QUALIFIED PERSONNEL.

THIS UNIT IS NOT SUITABLE FOR DOMESTIC USE.

Mechanical

The unit is strongly constructed to resist vandalism but can only be as strong as the means by which it is fixed to the wall and the protection given to the electrical supply cable. If it is felt that vandalism is a possibility in a situation where the unit is to be installed, then the base plate of the unit should be bolted to the wall with 6mm (1/4") bolts, either of 'through wall' or expansion types depending upon the thickness of the wall.

In circumstances where vandalism is not anticipated the unit may be fixed to the wall with 65mm or 75mm (2.5" or 3") x No.12 wood screws and suitable masonry plugs.

To remove the outer cover of the dryer, take the allen key supplied and insert the key through the small holes in the lower face of the cover and, when location is felt, turn **clockwise** until a firm resistance is met. When this has been done on both sides, push the cover towards the top of the unit and then lift away. When replacing the cover ensure that the pins on the top of the base plate and the socket head screws below all locate properly into the cover. On refixing, you will be unscrewing the socket head screws from the base plate until they lock into the lower section of the cover. These screws should be tightened firmly to ensure earth continuity to the cover but care should be taken not to overtighten. When the cover is removed, the four fixing holes which are provided in the base plate can be seen in the corners. The position of these holes has been included on the template for convenience. It is important to install the unit at the correct height above the floor, 1.5 metres (or 5 feet) to the top of the unit, as this will allow a comfortable hand drying position for the majority of adults. In areas where the average age is under 16 years, the height to the top of the unit may be dropped by 0.2 metres (or 8"). Care should be taken not to mount the dryer above metal or reflective surfaces such as sinks or draining boards. Notice should be taken of the minimum installation height above work surfaces.

Electrical

The unit should be connected to a single phase electricity supply (220/240V ~ 50Hz).

The conduit entry should be from the rear of the unit. Rear entry is recommended since the conduit is then not visible on the surface of the wall.

Always ensure that the installation conforms to the current edition of the IEE wiring regulations. In particular ensure that the unit is properly earthed and separately fused with a suitably rated fuse. Also ensure that it is connected to the supply via a double pole switch having a contact separation of at least 3mm. Care should be taken that single insulated conductors cannot come into contact with the mounting surface.

Testing

The hot air hand and face dryer should be tested by placing hands approximately four to six inches under the air outlet, the dryer will start, remove hands and the dryer will stop after approximately three seconds.

Test this operation a minimum of three times before accepting that installation is complete.

Service

The hot air hand and face dryer has been designed with ease of service in mind. Ten minutes every three months will ensure that the unit will give trouble free operation for many years.

Quarterly service

Isolate the unit from the electricity supply before attempting to remove the cover.

When isolated, remove the front cover from the unit using the allen key supplied. With a small, stiff brush clean away any fluff from the inlet and outlet grills. Every six months it may be necessary to clear accumulated fluff from the fan blades. Remove the outlet grill by pulling away from the fan housing and lightly brush away any fluff from the blades. Do not press hard on the fan as this component is finely balanced. Replace the outlet grill. Check length of motor brushes and replace if required, see label on motor/bracket assembly. Replace the cover ensuring that the pins on the top of the base locate properly into the cover. Re-connect the electricity supply and test dryer operation. This is all the regular service that is required for this unit.

Fault finding

Using the fault diagnosis chart (figure 1) the fault can be determined and appropriate action taken.

Technical specification

Approx. drying time	20 seconds
Air flow	275m ³ /hr
Maximum temperature	60°C
Sound level (at 1m)	74dBA
Power (at 240V)	2.6kW
Supply voltage	220/240V ~ 50Hz
Weight	6.0kg

Figure 1. Fault diagnosis chart.

