



OPERATION & MAINTENANCE INSTRUCTIONS



IMPORTANT: It is essential to isolate the unit from the electrical supply and the control power supply before carrying out any maintenance on the unit. Also ensure that the power cannot be accidentally restored by unauthorised personnel during maintenance.

When the access panel is removed from cased units, additional safety will be provided by removing the 3 amp fuse from the fused connector, located within the electrical box on the side of the unit.

Discrete electrical components must always be wired in accordance with the manufacturer's instructions using cable suited to the electrical data given below.

Access to Interior

The access panel is secured by four hex-headed screws with screw-driver slot on head. Free-standing units have the screws concealed in the grilles. This panel gives access to the fans and motor.

Filters

On cased units, this is located before the fandeck and is accessible via the access panel.

The filter is carried in channel slides and can be fully withdrawn by hand. The filter is of non-woven nylon manufacture and should be regularly cleaned from the dirty side with a vacuum cleaner. The filter can be partially cleaned by gentle beating.

The period between cleaning is dependant on operating conditions. In a very dirty atmosphere, the filter will require frequent cleaning.

Cooling / Heating Element

Provided the filter is regularly serviced, the cooling / heating element will require little or no attention. However, if the filter is allowed to get very dirty, some dust will percolate through and become entrained in the element. In this case, the element should be cleaned by applying an air jet to the air leaving face.

Fans

These are of the forward curved centrifugal type, mounted on a fan plate that can be removed without disturbing the wiring. Occasionally check the fan runners for security on the shafts and, if necessary, carefully clean with a soft brush and a vacuum cleaner.

Motor

These are single phase, totally enclosed, permanent split capacitor type having pre-lubricated sealed-for-life sleeve bearings requiring no maintenance.

Electric supply 220/240 volt, 1 phase, 50 Hz.

Casing & Drain

Occasionally clean the interior of the unit, and on cased units check that the paint is in good condition, repaint when necessary.

Always ensure that the condensate drain lines are clear, enabling the condensate to run free from the drain tray. Horizontally mounted units require the casing installed at a slight angle towards the drain connection (3-6mm from the horizontal).

Wiring

Occasionally check that all terminals are tight and that the cable insulation is in good condition. After servicing, ensure that no parts have been disturbed in such a manner that open terminals (especially spade type) are short circuited to the unit casing.

On cased units the electrics box housing the built-in switches can be removed by undoing two screws and gently sliding forward.

Spares

When ordering spares from Biddle Air Systems Ltd, please quote the works order number, the serial & model number of each unit concerned together with the individual article number for the component required (see chart for article numbers). Details of the unit can be found on the rating plate located inside the unit.

Model No.	Fan/Motor Assembly	Element	Filter Assembly
K92	6590201	6590101	6590301
K93	6590202	6590102	6590302
K95	6590203	6590103	6590303
K96	6590204	6590104	6590304
K97	6590205	6590105	6590305
K98	6590206	6590106	6590306

Electrical Data

Model No.	Running Current (amps)	Locked Rotor Current	Maximum Input Power (w)
K92	0.380	0.50	84
K93	0.420	0.60	105
K95	0.640	0.94	156
K96	0.920	1.82	205
K97	1.050	2.06	250
K98	1.970	3.90	440



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