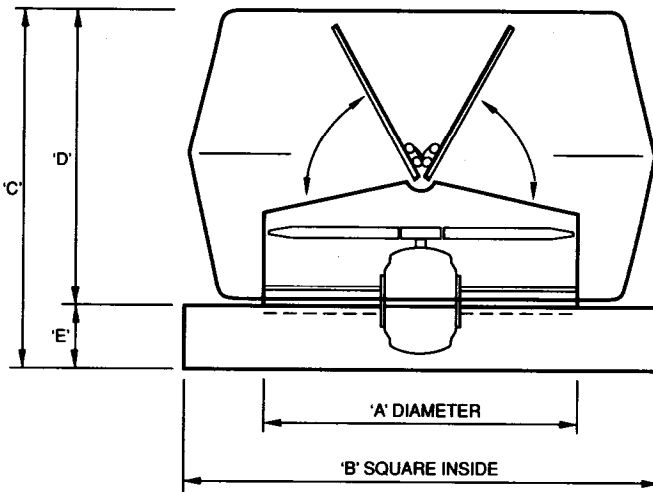


Upward Discharge High Velocity Extract Unit

TECHNICAL DATA

Frequently selected for Industrial Ventilation Systems, when economy is the consideration, the Upward Discharge models are powerful heavy duty roof mounting (up to an angle of 60 degrees) extract fans designed for efficient and rapid extraction of large volumes of air. Proved in many hundreds of applications to be the ideal means of dealing with fumes and highly contaminated air conditions.

Standard Unit Data Sizes 50 UD and 75 UD



MODEL	50 UD	75 UD
A.	520	785
B.	800	1000
C.	580	790
D.	480	690
E.	75	75

Model	rpm	Max permissible current (Amp)		Output Kw	Max vol flow rate m ³ /s	Noise level dB (A)	Approx. weight Kg
		220-240v	380-415v				
50 UD-9/14-3 ...	960	—	0.95	0.25	1.78	55	26
	1400	—	1.80	0.75	2.65	71	
50 UD-7/9-3 ...	720	—	0.75	0.12	1.35	49	26
	960	—	1.00	0.25	1.78	55	
50 UD-14-1 ...	1380	1.20	—	0.24	2.13	69	24
50 UD-9-1 ...	950	2.97	—	0.72	1.22	59	24
75 UD-7/9-3 ...	700	—	1.85	0.45	4.45	62	40
	920	—	3.00	1.10	6.00	67	

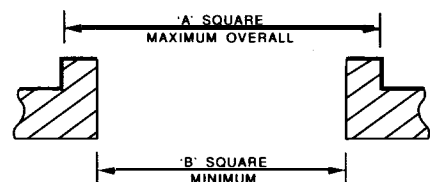
Unit Code

50 - UD - 9 / 14 - 3 ... TD

1 2 3 4 5

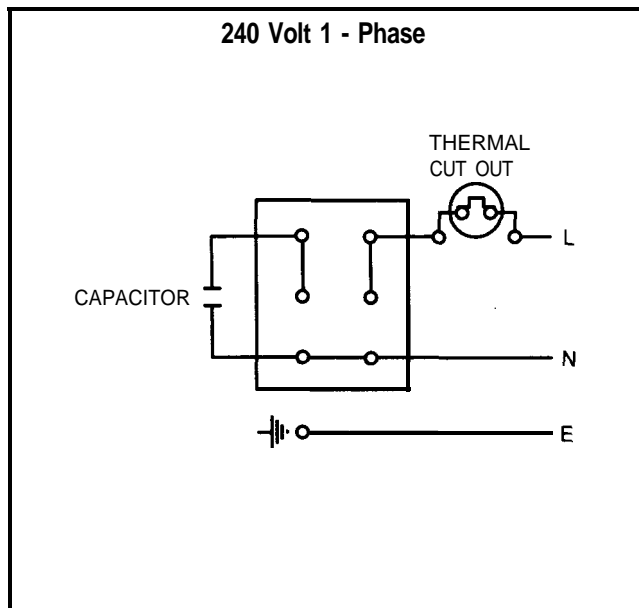
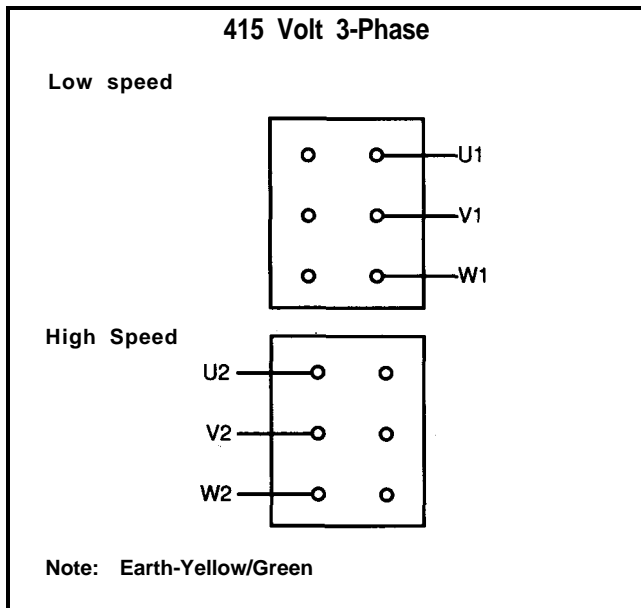
- 1 IMPELLER DIA. IN CM.
- 2 UD-UPWARD DISCHARGE EXTRACT UNIT
- 3 SPEED REF/MOTOR POLES
3 = THREE PHASE
1 = SINGLE (mono) PHASE
- 5 BASE CONFIGURATION- TD - TURNDOWN BASE
FB - FLAT BASE

Upstand Dimensions



Model	A.	B.
50UD	790	560
75UD	990	860

WIRING DIAGRAMS



HIGH VELOCITY EXTRACT UNIT

Frequently selected for Industrial ventilation systems, when economy is the main consideration, the upward discharge models are powerful heavy duty roof mounting (up to an angle of 60 degrees) extract fans designed for efficient and rapid extraction of large volumes of air. Proved in many hundreds of applications to be the ideal means of dealing effectively with fume and highly contaminated air conditions.

UNIT AND COMPONENT SPECIFICATION

The use of high quality reliably proven components ensure total weather protection under normal weather and mounting conditions resulting many years of trouble free operation.

IMPELLERS

— Multi bladed glassfibre reinforced polypropylene aerofoil section blades are mounted within a cast aluminium alloy hub assembled, matched balanced and tested to BS848 to provide optimum performance and noise characteristics.

WEATHER COWL AND BASE ASSEMBLY

— Manufactured from GRP the inward diverging cowl provides a lightweight extremely strong high performance profile ensuring the highest of discharge velocities to deal with rapid removal of fume and contaminated air in a vertical pattern preventing re-entry of extracted air.

— Resistant to atmospheric corrosion each unit is complete with two spring loaded air operated shutters individually hinged on stainless steel pivots housed in nylon bearings ensuring consistent and controlled discharge velocity. When the fan is not in use the shutters positively close offering total weather protection under normal weather conditions.

— Manufactured in GRP and incorporating rainwater drainage channels the base unit can be supplied with either a turnaround base for upstand mounting or with a flat base for fitting directly to the roofing structure. Typical/Specific fixing details available on request.

ELECTRIC MOTORS

— Encon Fan Powered Ventilation equipment is fitted with motors having seated bearings lubricated for life to provide quiet operation in any shaft position virtually eliminating the need for motor maintenance.

— 3 Phase 415 volt 50 Hz. These are British made dual wound two speed motors built and tested to comply with IEC 34-I. BS5000 Parts 10 and 99 including relevant parts of BS4999. Aluminium enclosures and IP55 rated,

insulation class F with Class B temperature rise motors are complete with 1 metre trading leads covered in a flexible woven polyester mesh sleeving.

— 240 volt single phase 50 Hz. European made asynchronous induction motors with squirrel cage rotor dynamically balanced to ISO 1940 standard in a die cast aluminium enclosures rated to IP55. The standard versions includes motor terminal box with motor thermal protection. Connection of the supply directly through the protection circuit for disconnection of the motor at any sign of potential problems and subsequent automatic reconnection.

— Motors can also be supplied to suit various voltages and the widest range of climatic and hostile conditions including high temperature and increased safety applications.

STARTERS

— Single and two speed starters can be supplied manufactured to comply with BS4941 and IEC 292 with enclosures rated to IP55 dust and hoseproof. They incorporate triple pole heavy duty contactors and thermal overload relays. Alternatively purpose built centralised control panels can be manufactured to suit varying applications. Upward discharge units are not recommended for use with speed controllers.

INSTALLATION

— Upward discharge extract fans are designed for mounting on any flat or sloping roof up to an angle of 60 degrees from the horizontal.

COLOURS

— Units are supplied standard house colour to BS4800 00-A-05 Grey. Other colours are readily available to BS or RAL range of colours.

SOAKER SHEETS

Glass reinforced polyester soaker sheets are custom made to match virtually any profile. We hold a standard range of upstand moulds to suit our ventilation units. Soaker sheets are also suitable for such diverse uses as windows, rooflights, escape and access hatches, domes and pressure relief. We are happy to give advice on both standard and non-standard uses for this remarkably adaptable product.

The soaker sheet range is available in standard and bespoke shapes and sizes. They can incorporate coloured resins from standard RAL and BS ranges.