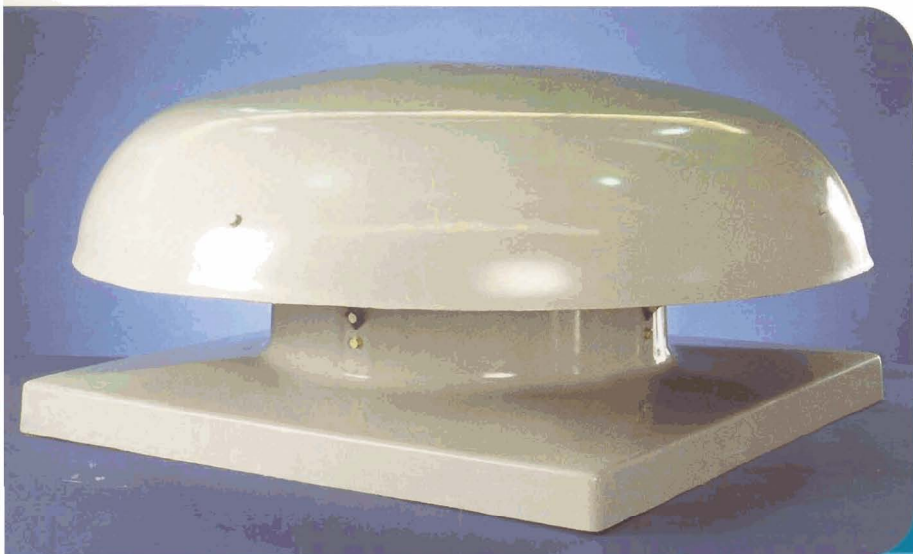




Donkin Fans



UV Roof Units

Mixed flow, roof extraction fans
with mushroom dome (GRP body)

UV Roof Units

UV ROOF UNITS

SERIES UV mixed flow roof extract units are a low profile design of attractive appearance, using corrosive resistant materials and incorporating an exclusive mixed flow impeller designed for high efficiency operation.

These units are particularly suited for operation on ducted systems with static pressures from 0 to 350 Pa.

The units can be mounted on any form of roofing at pitches from horizontal to 45 degrees. Being relatively low in mass, units can be supported on most types of roof, without reinforcement. If units are to be mounted on pitches greater than 45 degrees from horizontal, refer details to us for verification.

THE RANGE

Covers five sizes having nominal impeller diameters of 250, 400, 500, 630 and 710 mm. Each size is available in two speeds giving a wide selection of volume flows from 0.2 to 4.9 m³/s.

IMPELLERS

Are a multibladed, non overloading mixed flow design and direct driven by airstream rated motors.

MOTORS

Are totally enclosed induction machines specifically designed to match their respective impellers. Three phase motors have IP55 enclosures and Class F insulation, and are suitable for operation over a range of ambient temperatures from - 5°C to 40°C. Electrical performance complies with BS4999.

Single phase motors have IP54 enclosures and Class B insulation, and are suitable for operation over a range of ambient temperatures from - 5°C to 40°C. Electrical performance complies with IEC Publication 72.

Standard motors are suitable for operation in relative humidities up to 95%.

- **Bearings and Lubrication** - All motors have sealed ball bearings, lubricated for life.
- **Voltages** - standard voltages are :
Three phase - 400 volts
Single phase - 230 volts
Frequency - 50 Hz.
Other voltages and frequencies are available on request.

CONSTRUCTION

Weather caps and weather skirts are moulded in structural glass fibre.

Supports and fixings are mild steel, chemically cleaned and electro-coated.

PERFORMANCE DATA

All performance data is based on tests carried out in accordance with BS 848 : Part No.1 - Test Method Nos. 6 and 8 without automatic shutters.

Ratings are based on air having a density of 1.2 kg/m³ corresponding to a temperature of 20°C, a barometric pressure of 101,325 kPa, and a relative humidity of 62%. Rating will reduce by approximately 10% when shutters are fitted.

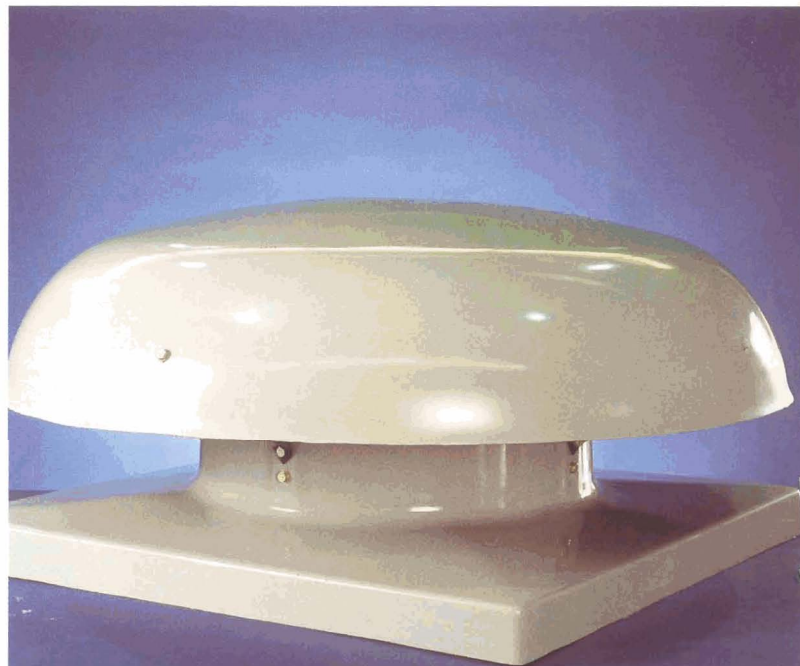
SOUND LEVELS

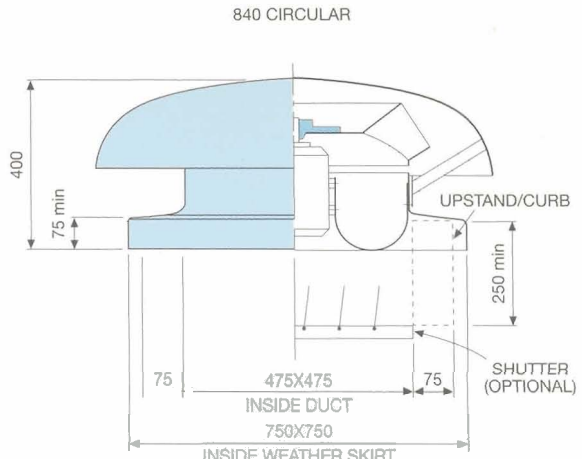
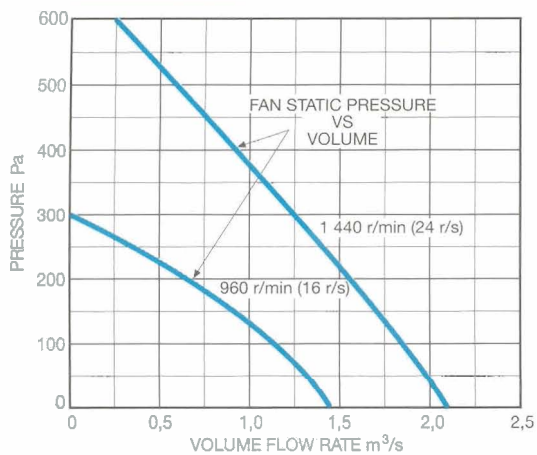
The sound data indicated on performance charts are shown as both average A-Scale Sound Levels measured under free field conditions at a distance of 3 metres from the centre of the fan and Sound Power Levels (dBW, re 10⁻¹² watts). All measurements have been taken strictly in accordance with BS 848 : Part 2.

OPTIONAL FEATURES

- Automatic air operated shutters
- Bird guards
- Units suitable for moisture laden atmosphere, acid fumes or high ambient temperature - details must be submitted with enquiries.

All technical information contained herein is subject to change without prior notice.

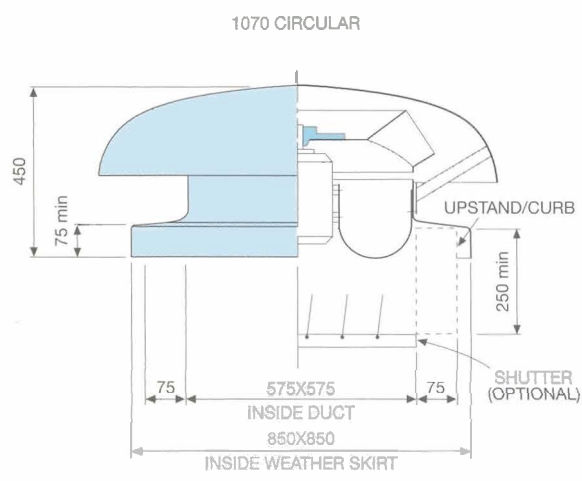
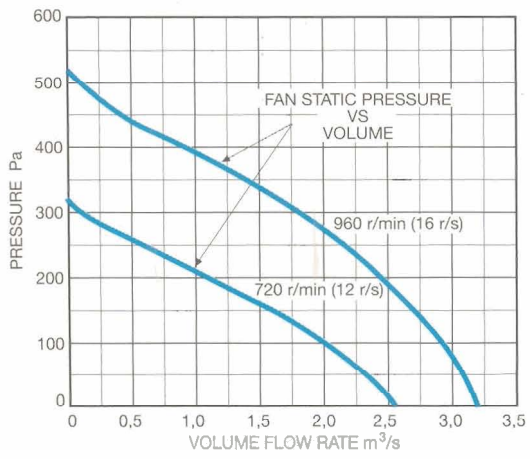




MASS: 32kg

SIZE	CODE	ROT. FREQ. r/min	PHASE	MOTOR POWER kW	SOUND POWER LEVEL					SOUND LEVEL db(A)	
					125	250	500	1k	2k		4k Hz
500	UV 500/3/4	1440	3	1,5	84	87	85	83	80	78	70
	UV 500/3/6	960	3	0,55	77	77	75	73	69	65	60

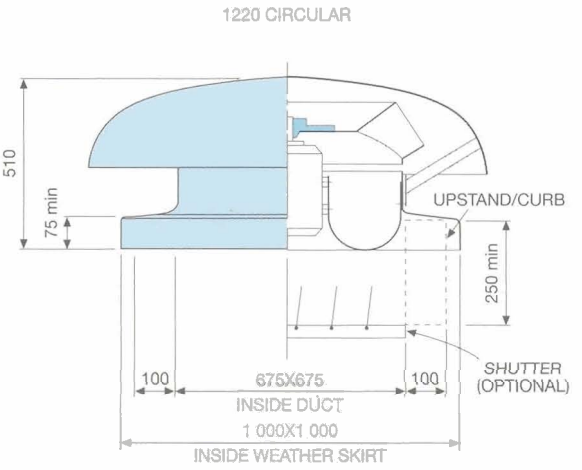
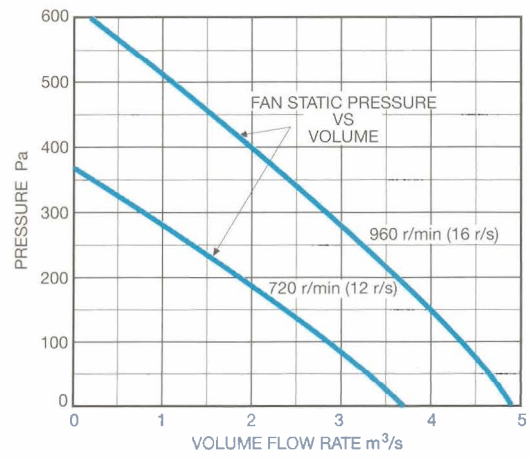
UV 630



MASS: 46kg

SIZE	CODE	ROT. FREQ. r/min	PHASE	MOTOR POWER kW	SOUND POWER LEVEL					SOUND LEVEL db(A)	
					125	250	500	1k	2k		4k Hz
630	UV 630/3/6	960	3	1,5	84	86	84	80	77	74	68
	UV 630/3/8	720	3	0,75	76	75	73	71	67	62	58

UV 710



MASS: 60kg

SIZE	CODE	ROT. FREQ. r/min	PHASE	MOTOR POWER kW	SOUND POWER LEVEL					SOUND LEVEL db(A)	
					125	250	500	1k	2k		4k Hz
710	UV 710/3/6	960	3	2,2	87	89	85	83	79	75	70
	UV 710/3/8	720	3	1,1	80	79	78	75	71	70	62

- NOTES:
- No allowance need be made for pressure losses within the fan and cowl.
 - Performance data is based on tests carried out in accordance with BS 848: Part No. 1: 1963 - Test method Nos. 6 and 8.
 - Performance relates to air having a standard density of 1,2kg/m³
 - Sound power levels are given in decibels - dB Re 10⁻¹² watts, measured in accordance with BS 848: Part No. 2.
 - Sound levels are average A scale values - db(A), measured under free field conditions at a distance of 3m from the centre of the fan.