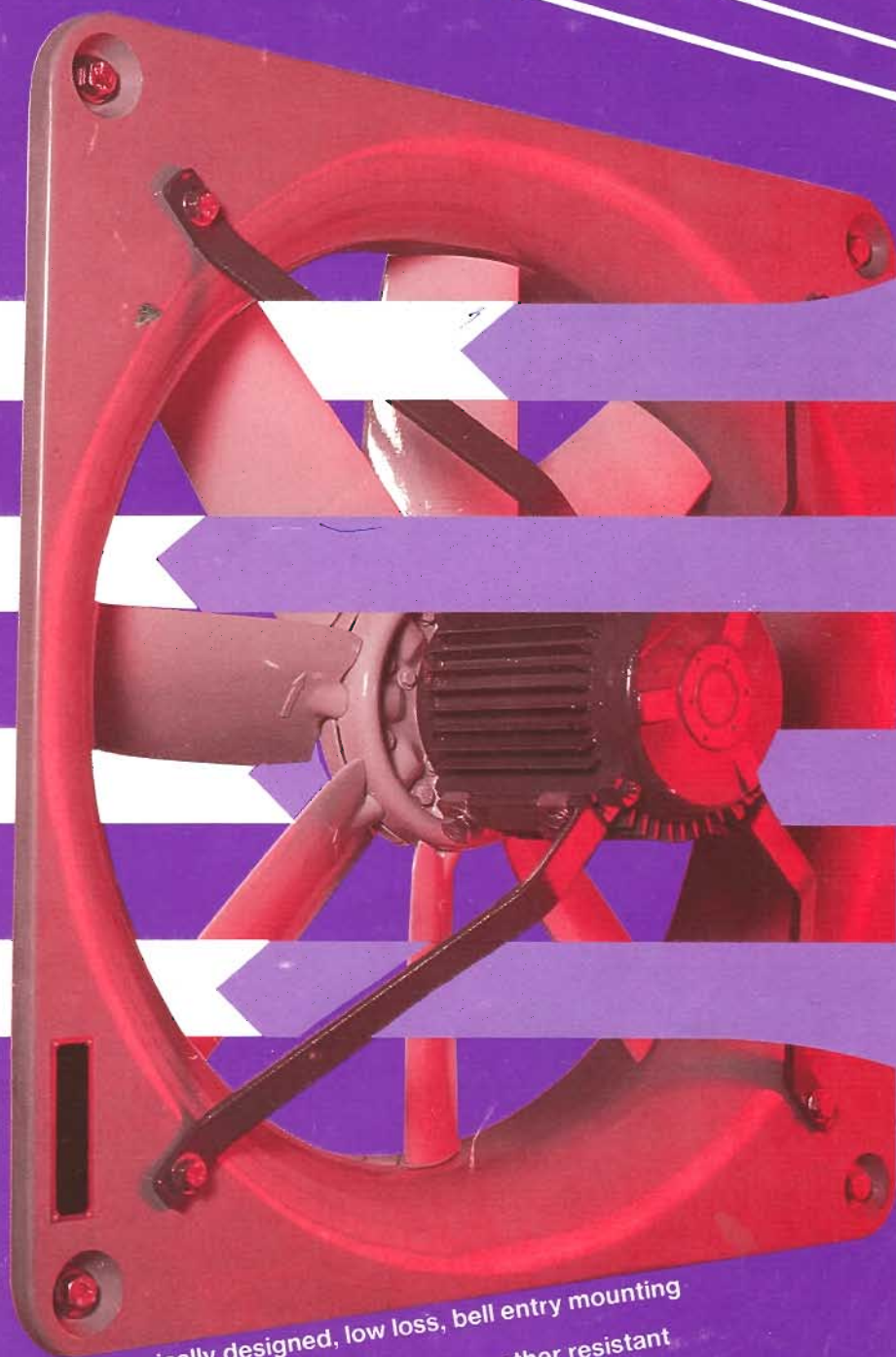


 **Donkin**

SERIES BELLAX

BELL ENTRY PLATE MOUNTED AXIAL FLOW FANS



- Aerodynamically designed, low loss, bell entry mounting plates.
- Principal materials of construction are weather resistant glass reinforced plastic and aluminium.
- Suitable for wall, plenum or duct mounting.

GENERAL SPECIFICATION

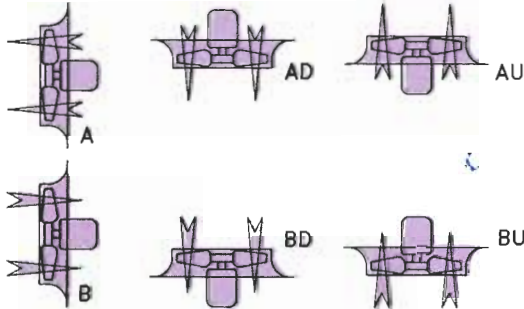
SERIES BELLAX plate mounted fans comprise manually adjustable pitch aluminium bladed impellers mounted directly onto the motors, supported on glass reinforced plastic mounting plates with integral low loss bell entries.

These fans are ideally suited for the movement of large air volumes against low and medium pressures, for wall, plenum or duct mounting applications.

THE RANGE covers seven sizes from 315 to 1000mm impeller diameters. Combinations of motor speeds, impeller blade pitch settings and number of blades (either 8 or 4 blades) provide wide flexibility in volume flows and pressures.

DIRECTION OF AIR FLOW - Bellax plate mounted axial flow fans are recommended in Forms A, AD and AU to meet rated performance.

Forms B, BD and BU can be supplied but performance will be reduced.



IMPELLERS incorporate blades of genuine aerofoil section, clamped in split steel hubs. Blade pitch adjustment is achieved by slackening the hub clamping bolts and setting the blades to the required pitch prior to re-tensioning the clamp bolts. Blades are die-cast in permanent steel moulds using aluminium silicon alloy to BS 1490 Grade LM6.

MOUNTING PLATES are moulded in glass reinforced plastic materials with external surfaces permanently colour impregnated - Navy Light Grey to SABS 1091 - 1975 colour G35.

Plate construction incorporates integral bell entry for maximum efficiency and to minimise noise.

BALANCING

Impellers are dynamically balanced to ISO 1940 - 1973 Grade G6.3.

FINISH

All steel surfaces are chemically cleaned and phosphated prior to the application of oven baked primer and enamel coats. All fasteners are zinc plated and passivated.

MOTORS

Fans are fitted with totally enclosed motors offering IP55 degree of protection. These motor enclosures are suitable for exposure to weather. Electrical performance complies with BS 4999 and BS 5000. Standard motors have Class F insulation. Standard voltages are 380 volt three phase and 220/250 volt single phase, 50 Hz.

TEMPERATURE LIMITATIONS

Standard fans are suitable for continuous operation between -10°C and +40°C.

For operation in the temperature range -10°C to -35°C special resins would be used in the mounting plates.

MOISTURE TREATMENT

Standard fans are suitable for continuous operation in relative humidities up to 95%. Special treatment of fans is available to make them suitable for continuous operation in moisture laden atmospheres. This treatment involves additional mechanical and electrical sealing procedures.

STARTING

Standard motors up to and including 2.2kW are usually supplied for direct-on-line starting. Motors 3.0kW and above can be either direct-on-line or star-delta started.

SPECIAL MOTORS

Motors with non-standard classes of insulation, flameproof construction, special voltages, multi-speed, etc., may be available on application.

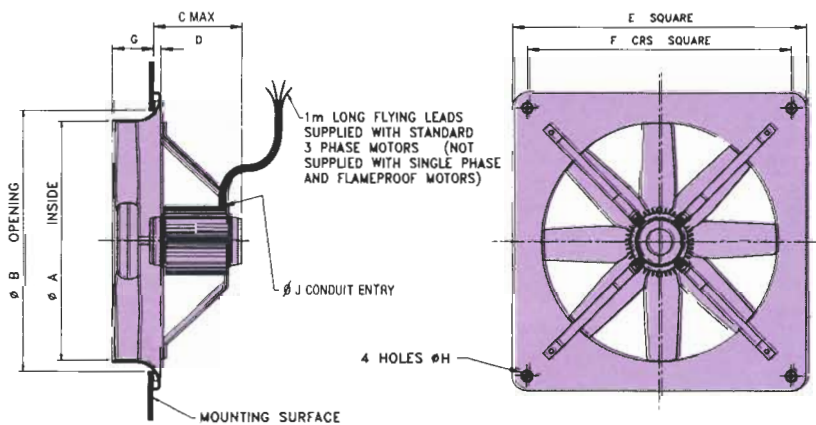
PERFORMANCE AND SOUND DATA

Refer to MAJAX-2 standard published data.

OPTIONAL FEATURES

- Inlet and discharge wire screens.
- Hot dip galvanised steel components.

DIMENSIONS mm AND MASSES kg



FAN SIZE	FAN SPEED-MOTOR POWER (kw)			A	B	C	D	E	F	G	H	J	APPROX MASS
	1440 r/min	960 r/min	720 r/min										
315	0.37	0.12		318	360	188	17	390	330	71	10	20	10
400	0.37	0.12		403	450	179	17	490	420	81	10	20	11
500	0.37	0.12		503	570	171	17	620	560	93	10	20	15
500	0.36 : 0.75	0.55		503	570	186	17	620	560	93	10	20	17
560	0.37	0.12		564	630	178	20	690	610	100	12	20	24
560	0.36 : 0.75 1.1 : 1.5	0.55		564	630	205	20	690	610	100	12	20	26
630	0.55 : 0.75 1.1 : 1.5	0.55		634	720	196	20	790	710	110	12	20	28
630	2.2			634	720	234	20	790	710	110	12	20	31
800		0.55		805	900	180	20	990	900	120	14	20	42
800	1.5	0.75 : 1.1		805	900	192	20	990	900	120	14	20	44
800	2.2 : 3.0	1.5	0.75 : 1.1	805	900	230	20	990	900	120	14	20	48
800	4.0	2.2		805	900	254	20	990	900	120	14	20	53
1000		2.2	1.5	1005	1120	213	20	1190	1090	130	14	20	61
1000		3.0 : 4.0 5.5	2.2 : 3.0	1005	1120	368	20	1190	1090	130	14	25	86