- Aerodynamically designed, low loss, bell entry mounting plate.
- 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 adjustible pitch-aluminium blade impellers mounted directly onto the motors, supported on glass reinforced plastic mounting plates with integral low loss ball bearings. 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 215 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 Fina A, AU and AU air meet rated performance.

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

IMPELLERS incorporate blades of genuine aerfoil 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 moulds utilising aluminium silicon alloy to BS 1490 Grade UM6.

MOUNTING PLATES are moulded in glass reinforced plastic materials with external galvanising permanently colour impregnated - Navy Light Grey to SABS 1091 - 1975 'colour Q35. Plate construction incorporates integral baffle for maximum efficiency and to minimise noise.

DIMENSIONS mm AND MASSES kg

BALANCING

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

FINISH

All steel surfaces are chemically treated 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 is in accordance with BS 6989 and BS 5900. Standard motors have Class F insulation. Standard voltages are 230 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 raised 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 untied.

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 MAAX-2 standard published data.

OPTIONAL FEATURES

- Inlet and discharge pipe screens.
- Hot dip galvanised metal components.

[Diagram showing dimensions and masses]