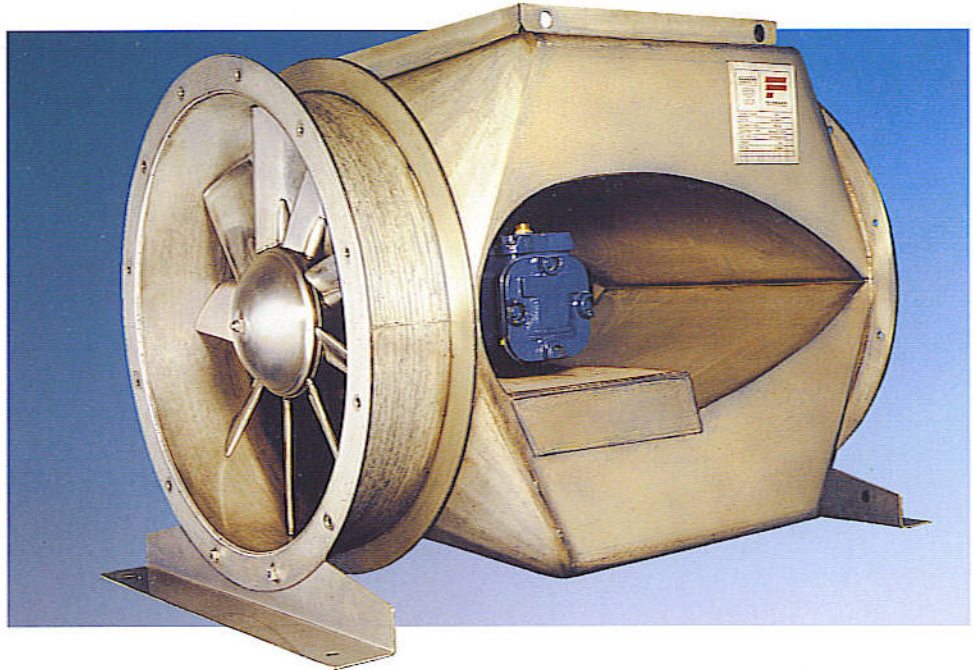


FLAMGARD

BIFURCATED FANS

'BIF.' SERIES (TYPES 1 & 2)



Flamgard's Bifurcated Axial Flow Fan range is available in sizes from 15" (380mm) to 48" (1219mm) diameter, for a wide spectrum of duties, derived from its design versatility.

The fans have been type tested to BS.848 Part I (1980) (performance within class 'B' tolerances) and BS.848 Part II (1985) for noise generation.

The BIF. 1 fan has the smallest impeller hub/duct ratio impeller and is available in 5 and 9 blade versions, selected to match the required performance to give optimum efficiency.

The BIF. 2 fan has the larger impeller hub/duct ratio impeller and is only available in a 9 blade version. The higher hub ratio is capable of developing higher static pressures than the BIF. 1 impellers.

Both fans feature high performance, low noise generating, adjustable and fixed pitch aerofoil blades.

The robustly constructed fan casings were designed to handle difficult running conditions where the handling of through air or gas with highly corrosive or contaminated properties at high temperatures were involved.

The motors are located in a streamlined aerodynamic strut and are therefore isolated from the above being in ambient air.

A variety of "sealing" arrangements are available depending on the application.

For performance characteristics please refer to Flamgard publication FD19.

SIZE RANGE

15" (380mm) to 48" (1219mm) diameters.

CONSTRUCTION

Impeller and casings manufactured from BS.1449 Part II 1983 stainless steel grade 316S11 or grade 304S12 cold rolled grade II B. Alternative materials are available if requested.

DESIGN FEATURES

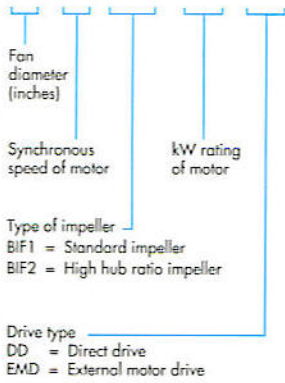
Aerofoil blades.
Aerodynamic strut.
Statically and dynamically balanced.
BS.848 parts I and II air and noise tested respectively.
Special seals as required.
Motor out of airstream.

OPTIONS

Various impeller configurations for optimum performance and efficiency.
Adjustable/fixed pitched blades.
Different types and makes of motors as requested.
Anti-spark features.
A/V mounts.
Flexible connectors.
Guards.
Seal variations.
Earthing bosses.

Ordering Procedure

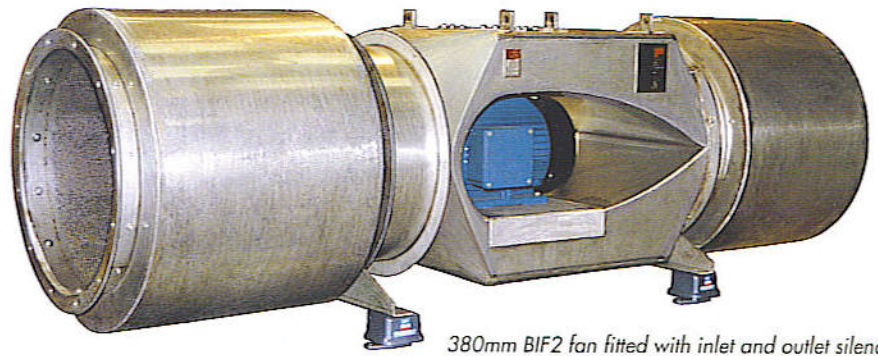
24 / A / BIF1 / 7.5 / DD



DIMENSIONS

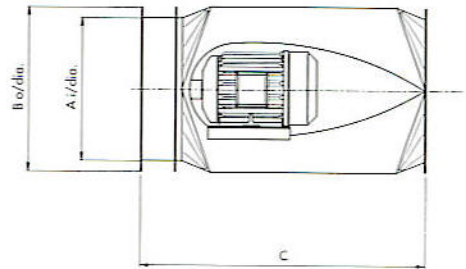
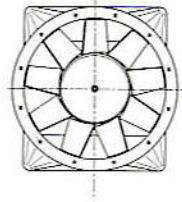
BIFURCATED FANS

'BIF.' SERIES (TYPES 1 & 2)



380mm BIF2 fan fitted with inlet and outlet silencers.

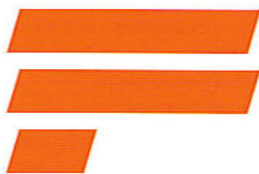
D holes E dia. F p.c.d.



ALL DIMENSIONS IN MILLIMETRES.

Fan Size	Motor Frame Size	Dimensions						Approx. Weight Kg
		A	B	C	D	E	F	
380mm 15 INCH	80	381	467	741	8	12	426	72
	90L & 90S & 100L	381	467	894	8	12	426	86 98
	455mm	80	457	565	741	8	14	516
18 INCH	90S	457	565	944	8	14	516	100 103
	90L	457	565	944	8	14	516	115 133
	100L & 112M	457	565	944	8	14	516	129 147
530mm 21 INCH	100L & 112M	533	641	944	8	14	592	173 182
	132S & 132M	533	641	1071	8	14	592	198 207
610mm 24 INCH	100L & 112M	609	717	944	12	14	668	272 301
	132S & 132M	609	717	1071	12	14	668	174 192
	160M & 160L	609	717	1224	12	14	668	228 238
685mm 27 INCH	100L & 112M	685	794	944	12	14	744	219 237
	132S & 132M	685	794	1071	12	14	744	253 262
	160M	685	794	1224	12	14	744	219 237
760mm 30 INCH	100L & 112M	762	870	1071	12	14	820	219 237
	132S & 132M	762	870	1071	12	14	820	253 262
	160M	762	870	1224	12	14	820	219 237

Fan Size	Motor Frame Size	Dimensions						Approx. Weight Kg
		A	B	C	D	E	F	
910mm 36 INCH	100L & 112M	914	1022	1224	12	14	984	285 303
	132S & 132M	914	1022	1224	12	14	984	319 329
	160M & 160L	914	1022	1300	12	14	984	411 440
1060mm 42 INCH	180M & 180L	914	1022	1402	12	14	984	501 522
	132S & 132M	1066	1203	1300	16	14	1136	455 464
	160M & 160L	1066	1203	1300	16	14	1136	521 550
1220mm 48 INCH	180M & 180L	1066	1203	1402	16	14	1136	609 629
	132S & 132M	1219	1356	1300	20	14	1289	574 588
	160M & 160L	1219	1356	1300	20	14	1289	644 673
200L	180M & 180L	1219	1356	1402	20	14	1289	709 728
	200L	1219	1356	1630	20	14	1289	794
	225S & 225M	1219	1356	1835	20	14	1289	842 842
	250S & 250M	1219	1356	2139	20	14	1289	1042 1042



FLAMGARD

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