



BOX FAN

SERIES BF

INTRODUCTION

The BF range of large box fans has for many years been used mainly in green-houses and the poultry industry. They are now rapidly making their mark in the ventilation industry. The reason is obvious. This 'gentle giant' moves large volumes of air silently and at a fraction of the cost of conventional large propeller or axial fans. The range of BF fans are available in four common diameters with the BF20 being a direct driven model.

Other models are v-belt driven by motors ranging from 0,37kW to 1.10kW. Two different styles compliment the range. The BFM model has front and rear guards only and is commonly used indoors for air circulation in large factories and warehouses. The standard BFS version has a rear wire mesh guard and front stainless steel gravity operated louvres.

These units can be mounted in factory and warehouse walls serving as extractor fans. In special applications, this unit may be mounted in a roof top extract system.



CONSTRUCTION

The square fan housing and bellmouth-entry plate are made of strong galvanised sheet. The 6 bladed impeller is statically and dynamically balanced for low noise and vibration free operation. The impeller material is stainless. The impeller is attached to a large v-belt pulley, in which is embedded a double ball bearing assembly, protecting it against

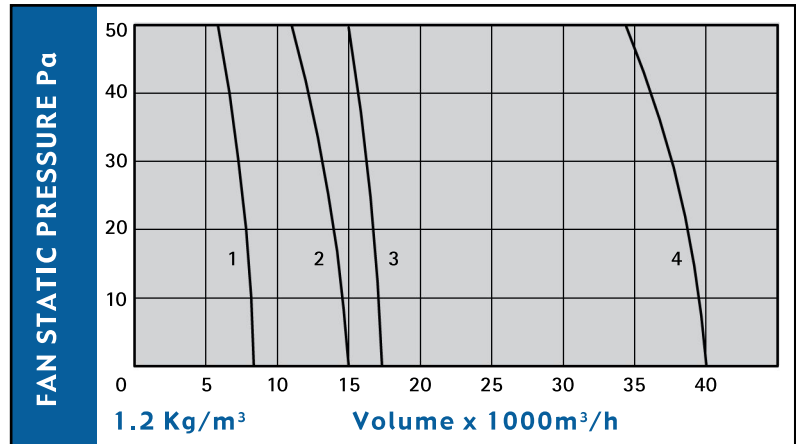
water. The belt transmission delivers low impeller rpm, which ensures high efficiency, low energy consumption as well as low noise.

MOTOR

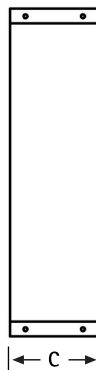
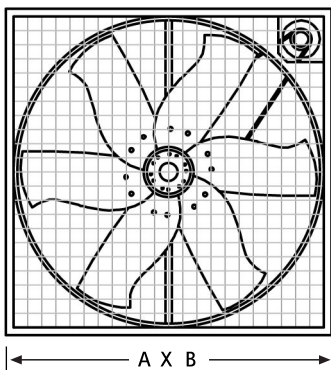
The units are fitted with standard metric aluminium cased motors, available in 220volt or 380volt 50Hz. The motors are protected to IP55 standards allowing them to be operated in moisture and humid air conditions. The motors windings are class 'F' insulated. Although not recommended, the 380volt motors may be speed controlled.

DIMENSIONS

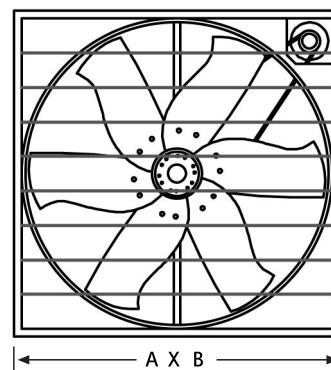
FAN	Curve No.	A x B	C
BFM20	1	600	400
BFM30	2	800	400
BFM36	3	1020	400
BFM50	4	1380	400
BFS20	1	600	400
BFS30	2	800	400
BFS36	3	1020	400
BFS50	4	1380	400



BFM



BFS



MOTOR SPECIFICATIONS

FAN	kW	Speed	Phase	Volts	Amps
BFM/BFS20	0.37	1370	1/50	220	2.90
BFM/BFS30	0.37	1400	1/50	220	2.90
BFM/BFS36	0.75	1400	1/50	220	4.69
BFM/BFS50	1.50	1400	1/50	220	9.50
BFM/BFS20	0.37	1370	3/50	380	1.20
BFM/BFS30	0.37	1400	3/50	380	1.20
BFM/BFS36	0.75	1400	3/50	380	2.00
BFM/BFS50	1.10	1400	3/50	380	2.90

TECHNICAL SPECIFICATIONS

Fan	BFM20	BFS20	BFM30	BFS30	BFM36	BFS36	BFM50	BFS50
Drive	Direct	Direct	Belt	Belt	Belt	Belt	Belt	Belt
Weight	24	24	39	39	43	43	68	68
Fan speed rpm	1370	1370	660	660	600	600	440	440
Air volume m ³ /hour	8000	8000	15000	15000	17500	17500	40000	40000
Propellor diameter	500	500	750	750	900	900	1250	1250
Motoprotection	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55
Motor insulation class	F	F	F	F	F	F	F	F



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