

INLINE CENTRIFUGAL BELT DRIVEN SINGLE FANS



SINGLE BELT DRIVEN FAN

Standard single duct inline centrifugal cabinet belt driven fan available in various models covering an extensive range of air volumes from 1000 m³/hr to 46000 m³/hr (588 cfm to 27058 cfm) and pressure development of up to 600 Pa.

CONSTRUCTION

MCSB models standard unit casing is manufactured from heavy gauge galvanised steel suitable for internal mounting. The fans can be offered with corrosion proof epoxy coated treatment for external mounting. The casing can also be supplied in mill finish aluminium. All casings have full size removable side access panel with quick release clamps for ease of servicing. Rectangular inlet and outlet spigots are standard. Roof mounted fans can be supplied with bottom inlet for roof curb mounting. The blower-motor assembly is mounted with anti-vibrations mounts on the casing to avoid vibrations.

IMPELLERS

The impellers are galvanized steel multivane double width forward curved type, statically & dynamically balanced according to ISO 1940. Free shaft supported at both ends in permanently greased ball bearings. The bearings are assembled on rubber shock absorber to avoid vibrations.

MOTORS

The motors are TEFC, IP 55 protected, single phase 220-240 V / 50 Hz capacitor start and run and three phase 380-415 V / 50 Hz. Standard

class 'F' motor insulation suitable for operating temperatures from -20 °C to +60 °C. Motors can be wound for any voltage and frequency and also for dual voltage on request. Also, 2-speed (4/6 pole, 4/8 pole & 2/4 pole) motors are available on request.

SOUND LEVEL

The acoustic level shown is the sound pressure level (LPS), measured at one meter from the fan outlet at an angle of 45°, and are taken at the "A" sound scale. To obtain the sound power (LWS) we have to add 7 dB to the acoustic pressure (LPS).

TERMINAL BOX

The fans are supplied completely factory prewired to an IP55 terminal supplied with all models, ensuring suitability for external use.

QUALITY ASSURANCE

All the fans are subjected to exhaustive quality control, and all our performances are made under AMCA 210 fig. 12, in compliance with European CE standards. The METRICO INDUSTRIAL FANS LTD. holds BS EN ISO 9002 : 1994 certification.

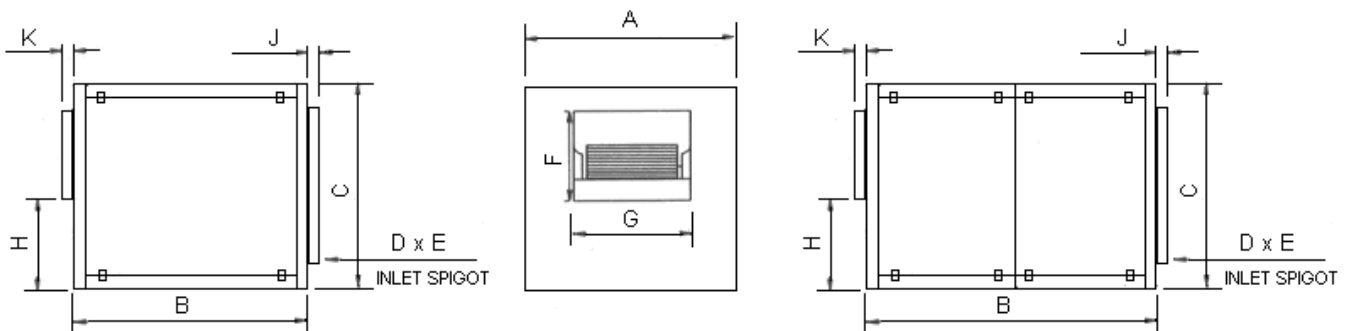
OPTIONAL FEATURES

- Epoxy Finish
- Aluminum Casing
- Acoustic Insulation
- Bird Guard (Wire Mesh)
- Back Draft Damper
- Disconnect Switch

TECHNICAL CHARACTERISTICS

Model	Maximum Permissible Speed (rpm)	Maximum Possible Motor Power (kW)
MCSB 7/7	2400	1.5
MCSB 9/7	2200	2.2
MCSB 9/9	1900	3
MCSB 10/10	1800	4
MCSB 12/12	1500	4
MCSB 15/15	1200	5.5
MCSB 18/18	1000	7.5
MCSB 20/20	1000	11
MCSB 22/22	900	15
MCSB 25/25	700	15
MCSB 30/28	600	18.5

DIMENSIONAL DETAILS



Small / Medium Sizes

Big Sizes

SMALL / MEDIUM SIZES (UPTO 7.5 KW MOTOR)

Model	Dimensions (mm)										Weight (Kgs)
	A	B	C	D	E	F	G	H	J	K	
MCSB 7/7	550	750	500	450	430	228	259	160	50	50	20
MCSB 9/7	600	850	550	500	550	262	232	165	50	50	24
MCSB 9/9	600	850	550	500	550	262	300	165	50	50	25
MCSB 10/10	700	950	600	550	600	290	330	205	50	50	28
MCSB 12/12	800	1000	675	625	710	340	395	230	50	50	38
MCSB 15/15	900	1100	850	775	825	400	475	265	50	50	50
MCSB 18/18	1100	1200	950	875	925	480	558	315	50	50	70

BIG SIZES

MOTORS FITTED OVER BASEPLATE (FROM 5.5 KW TO 15 KW)

Model	Dimensions (mm)										Weight (Kgs)
	A	B	C	D	E	F	G	H	J	K	
MCSB 20/20	1100	1400	1175	1080	1000	600	600	450	30	40	123
MCSB 22/22	1250	1460	1250	1155	1155	740	660	442	30	40	141
MCSB 25/25	1450	1550	1375	1280	1355	790	765	456	30	40	170
MCSB 30/28	1650	1800	1600	1500	1555	930	890	550	30	40	212

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