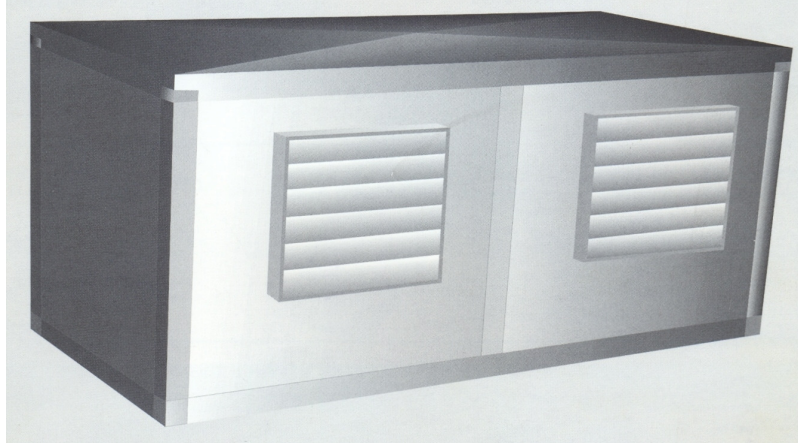


INLINE CENTRIFUGAL BELT DRIVEN TWIN FANS



TWIN BELT DRIVEN FAN

Standard twin duct inline and roof mounted 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

BTRA models standard unit casing is manufactured from heavy gauge galvanized 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. Two single fans running in individual scroll with independent drives & motor are included in a single cabinet with single inlet and two individual outlet each one fitted with aluminium gravity non-return dampers as standard to prevent air recirculation through the standby fan or during system shut down periods. This arrangement is applicable upto 18/18 model only. Higher models are supplied in two split halves to be connected on site (due to handling problems). Rectangular inlet and outlet spigots are standard. 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 as per BS 5000, 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. The fans are supplied completely factory prewired. The airflow switches are mounted inside the fan and wired to the terminal box mounted on the outside of the fan casing, which is protected to IP55.

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).

AUTOCHANGEOVER CONTROL

The standard MAC-A auto changeover controllers provide fans with automatic duty sharing every 10 hours by means of integral electronic timer. During the run mode if any fan develops fault, the system automatically switches 'ON' the standby fan and indicates a fault signal on the panel. The fire retardant polypropylene panel casing is protected to IP55 and includes 'RUN' & 'FAIL' indications for both fans along with power 'ON/OFF' switch.

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 9001:2008 certification.

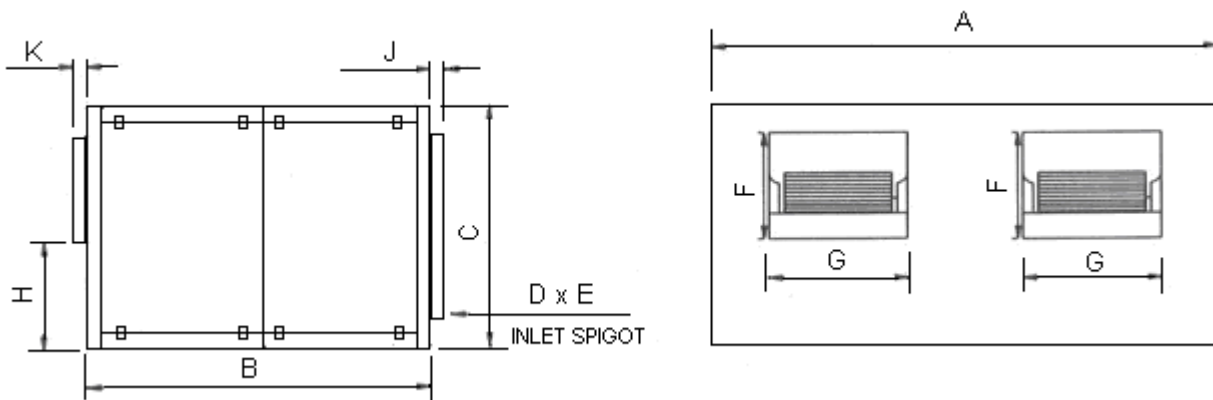
OPTIONAL FEATURES

Epoxy Finish
Aluminum Casing
Acoustic Insulation
Bird Guard (Wire Mesh)
Isolator Switch

TECHNICAL CHARACTERISTICS

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

DIMENSIONAL DETAILS



SMALL / MEDIUM SIZES (UPTO 7.5 Kw MOTOR)

Model	Dimensions (mm)										Weight (Kgs)
	A	B	C	D	E	F	G	H	J	K	
BTRA 7/7	1020	750	500	450	970	228	259	160	50	50	50
BTRA 9/7	1150	850	550	500	1100	262	232	165	50	50	58
BTRA 9/9	1150	850	550	500	1100	262	300	165	50	50	60
BTRA 10/10	1240	950	600	550	1190	290	330	205	50	50	65
BTRA 12/12	1450	1000	675	625	1370	340	395	230	50	50	85
BTRA 15/15	1750	1100	850	775	1670	400	475	265	50	50	110
BTRA 18/18	1950	1200	950	875	1870	480	558	315	50	50	160

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	
BTRA 20/20	2200	1400	1175	1080	1000	600	600	450	30	40	260
BTRA 22/22	2500	1460	1250	1155	1155	740	660	442	30	40	300
BTRA 25/25	2900	1550	1375	1280	1355	792	765	456	30	40	350
BTRA 30/28	3300	1800	1600	1500	1555	930	890	550	30	40	450

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