



Forward Curved Fan Box – Belt Derive

FAN - BOX

FWD-B-T



Unit features

Box belt driven fans with frame in extruded aluminum profiles, paneling and acoustic cladding equipped with High performance scroll type centrifugal fan, double inlet with forward-curved blade impeller for transmission drive, coupled to the motor by trapezoidal belts and pulleys, statically and dynamically balanced in according to Iso standard G6.3. Designed for use in professional ventilation systems, where low noise and thermal insulation are required.

- Series composed by 6 sizes, with flowrate starting from 800 m³/h up to 16.000 m³/h and pressure from 100 up to 800 Pa.
- Working temperature: +60°C;
- Trapezoidal EPDM belts with innovative technology with bare sides maintenance-free. It does not suffer from the considerable drop in voltage in the first hours after installation, maximum energy efficiency, extraordinary power capacity, antistatic, high dimensional accuracy, minimum voltage loss.
- Pulleys with trapezoidal grooves built in cast iron with protective phosphating treatment and statically balanced, cast-iron conical bushes with ISO G7 bores.
- Cladding panels made in GI sheet steel, external painted or plasticized and galvanized internal, interposed with 25 mm of high density polyurethane foam, or Rockwall having a sound reduction and density not less than 24 kg/m³.
- Inspection door with lock system CE compliance, complete with handle
- TEFC asynchronous 3-phase motor 400V, class F protected, IE3 as standard efficiency (single phase up on request).
- Single speed as default, two speed version available on request.
- **POSITIONING:** Floor mounting, Shelf mounting and Ceiling mounting.

Applications

FWD-B box fans, the fans Box – FWD—B-T series are particularly designed for air extraction, supply or filtration. Their main characteristic is the low noise level which makes them ideal for urban environments and industrial sites where the noise is an issue

- Offices.
- Schools.
- Hospitals and surgeries.
- Restaurants, cafeterias and canteens.
- Houses.
- Shops.
- Laboratories.
- Toilets



Fan Box – Forward Curved Belt derive



Scroll Type – Forward Curved



Scroll Type – Forward Curved with reinforced bracket

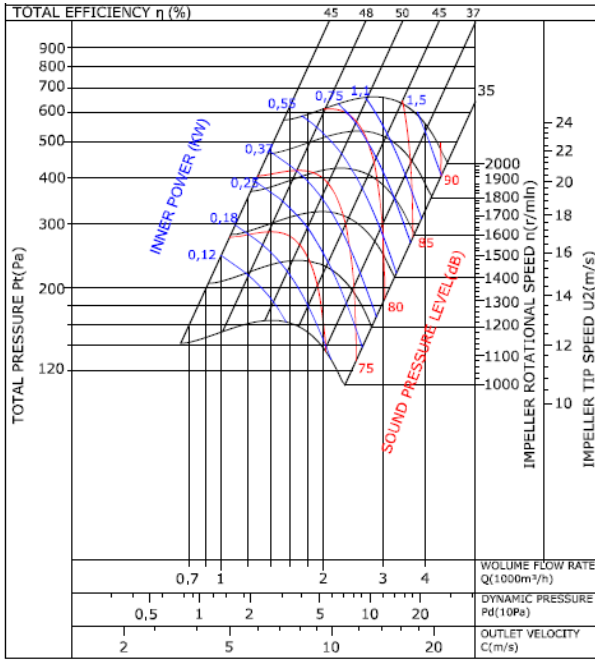
Engineering Data

Technical Data

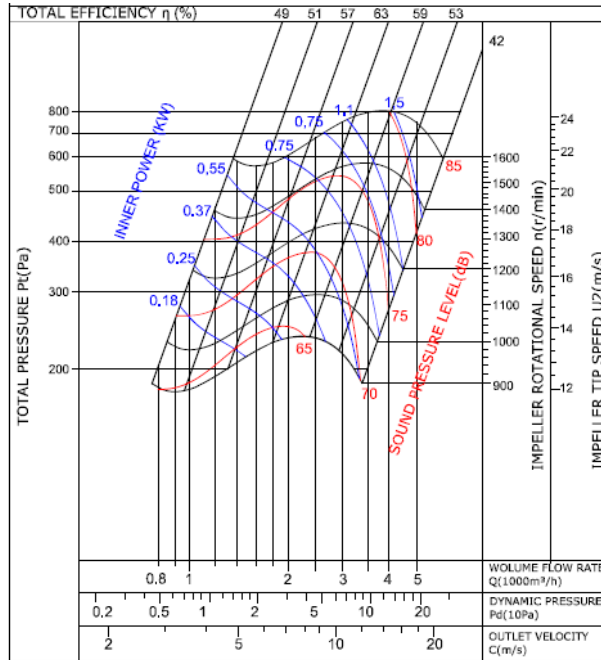
Model	Flow Rate	Pa -100	Pa -200	Pa -300	Pa -400	Pa -500	Pa -600	Pa -700	Pa -800	Noise dBA
Box Fan	m3/h	Rpm-Kw	Rpm-Kw	Rpm-Kw	Rpm-Kw	Rpm-Kw	Rpm-Kw	Rpm-Kw	Rpm-Kw	(min/mix)
FWD-B-T 7/7	800	900 - 0,25	1260 - 0,25	0	0	0	0	0	0	50/53
FWD-B-T 7/7	1000	955 - 0,25	1260 - 0,25	0	0	0	0	0	0	51/55
FWD-B-T 7/7	1500	1068 - 0,25	1326 - 0,37	1555 - 0,55	1767 - 0,55	1958 - 0,75	0	0	0	57/65
FWD-B-T 7/7	2000	0	1420 - 0,55	1672 - 0,55	1848 - 0,75	2068 - 0,75	0	0	0	63/69
FWD-B-T 9/9	1500	700 - 0,25	1008 - 0,25	1260 - 0,55	0	0	0	0	0	51/60
FWD-B-T 9/9	2000	714 - 0,25	1000 - 0,37	1250 - 0,55	1420 - 0,55	1566 - 0,75	1754 - 0,75	1958 - 1,1	0	54/70
FWD-B-T 9/9	3000	0	1083 - 0,55	1278 - 0,55	1410 - 0,75	1566 - 1,1	1754 - 1,1	1848 - 1,5	2068 - 1,5	65/72
FWD-B-T 10/10	2000	630 - 0,37	840 - 0,37	1068 - 0,55	1206 - 0,55	1410 - 0,75	1488 - 0,75	0	0	60/71
FWD-B-T 10/10	3000	741 - 0,55	913 - 0,55	1083 - 0,55	1197 - 0,75	1336 - 1,1	1410 - 1,1	1568 - 1,5	1754 - 1,5	60/71
FWD-B-T 10/10	4000	0	1015 - 0,75	1133 - 1,1	1269 - 1,1	1410 - 1,5	1494 - 1,5	1590 - 2,2	1679 - 2,2	70/75
FWD-B-T 12/12	3000	504 - 0,37	741 - 0,55	913 - 0,55	0	0	0	0	0	50/60
FWD-B-T 12/12	4000	562 - 0,55	710 - 0,55	906 - 0,75	1015 - 1,1	1195 - 1,5	0	0	0	57/68
FWD-B-T 12/12	5000	571 - 0,55	746 - 0,75	906 - 1,1	1007 - 1,5	1128 - 1,5	1277 - 2,2	1353 - 2,2	1400 - 3	60/72
FWD-B-T 12/12	6000	634 - 0,75	746 - 1,1	881 - 1,5	1007 - 1,5	1140 - 2,2	1277 - 2,2	1326 - 3	1400 - 3	65/75
FWD-B-T 12/12	7000	705 - 1,1	793 - 1,5	939 - 2,2	1064 - 2,2	1125 - 3	1260 - 3	1326 - 3	0	68/75
FWD-B-T 12/12	8000	0	840 - 2,2	939 - 2,2	1068 - 3	1189 - 3	1250 - 4	0	0	72/75
FWD-B-T 15/15	6000	456 - 0,55	634 - 0,75	746 - 1,1	846 - 1,5	939 - 2,2	1064 - 2,2	1189 - 3	0	55/70
FWD-B-T 15/15	7000	453 - 0,75	634 - 1,1	746 - 1,5	840 - 2,2	939 - 2,2	1068 - 3	1125 - 3	0	58/70
FWD-B-T 15/15	8000	508 - 1,1	634 - 1,5	712 - 2,2	840 - 2,2	955 - 3	1068 - 3	1120 - 4	0	60/72
FWD-B-T 15/15	9000	508 - 1,5	635 - 1,5	712 - 2,2	840 - 3	955 - 3	1081 - 4	1120 - 4	0	65/75
FWD-B-T 15/15	10000	567 - 1,5	638 - 2,2	798 - 2,2	840 - 3	933 - 4	1061 - 4	1120 - 5,5	0	67/75
FWD-B-T 15/15	12000	630 - 3	741 - 3	840 - 4	875 - 4	880 - 5,5	1045 - 5,5	0	0	72/75
FWD-B-T 18/18	8000	360 - 0,55	508 - 1,1	634 - 1,5	712 - 2,2	840 - 2,2	0	0	0	58/69
FWD-B-T 18/18	10000	403 - 1,1	508 - 1,5	638 - 2,2	712 - 2,2	840 - 3	875 - 4	1000 - 4	0	62/74
FWD-B-T 18/18	12000	453 - 1,5	570 - 2,2	638 - 2,2	741 - 3	787 - 4	875 - 4	980 - 5,5	0	67/75
FWD-B-T 18/18	14000	507 - 2,2	570 - 2,2	663 - 3	741 - 4	787 - 4	871 - 5,5	980 - 5,5	0	70/75
FWD-B-T 18/18	16000	504 - 3	630 - 3	663 - 4	737 - 5,5	824 - 5,5	875 - 7,5	937 - 7,5	0	73/75

Fan Curves

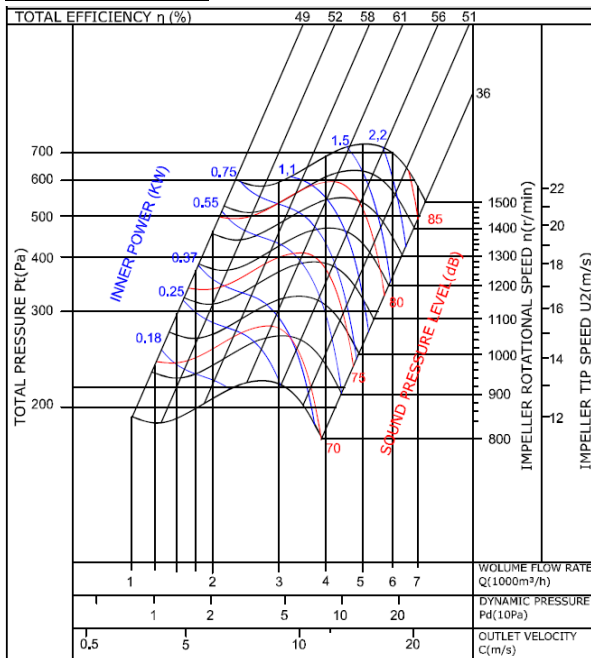
FWD-B-T 7/7



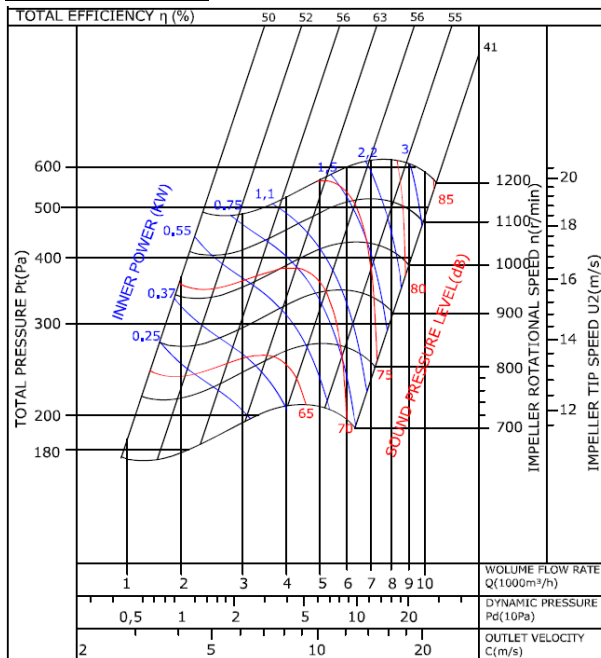
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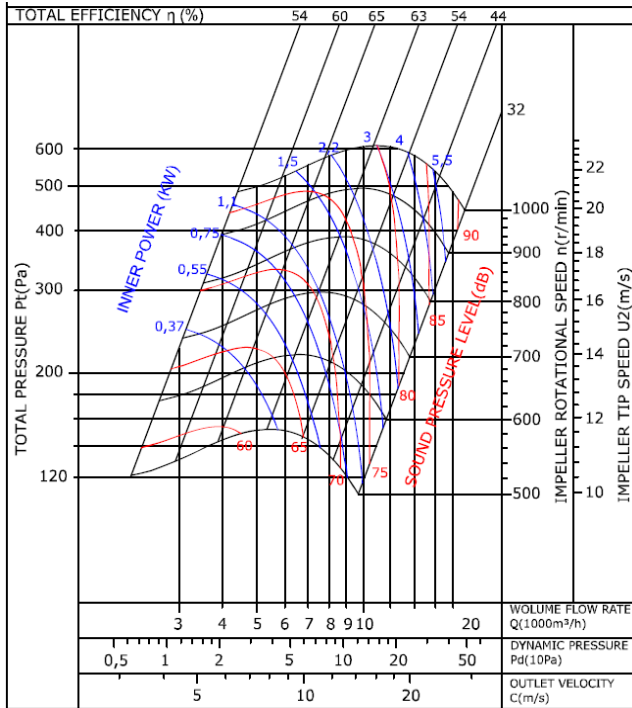
FWD-B-T 10/10



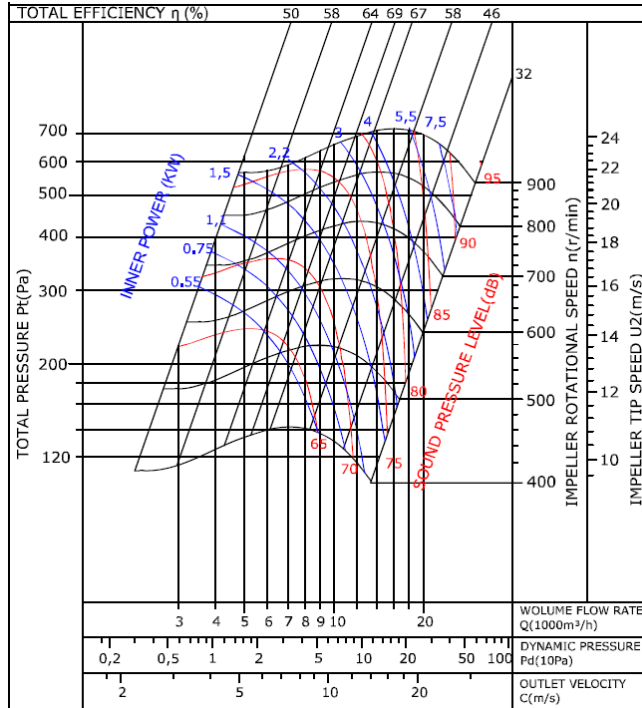
FWD-B-T 12/12



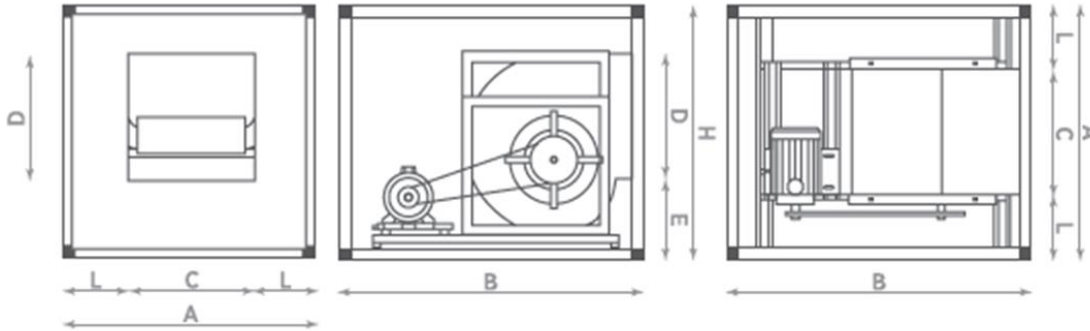
FWD-B-T 15/15



FWD-B-T 18/18



Unit Dimensions



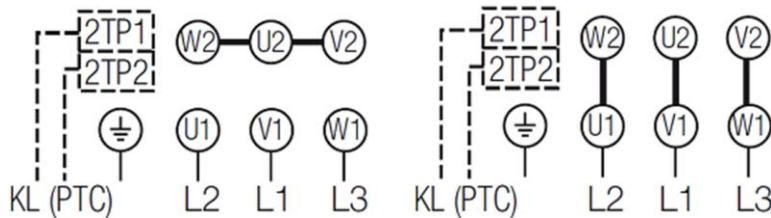
Dimensions

Model		Outlet					
Box Fan	Size	A	H	B	C x D	E	L
FWD-B-T	7/7	600	600	600	232x210	198	184
FWD-B-T	9/9	600	600	750	302x265	205	149
FWD-B-T	10/10	750	750	900	302x265	195	149
FWD-B-T	12/12	750	750	900	262x294	120	149
FWD-B-T	15/15	900	900	1000	475x406	285	212
FWD-B-T	18/18	1000	1000	1200	542x484	353	229

*All dimensions in mm

Note: For fresh air intake fan box applications, the unit width "A" as well as distance "L", shall modified to full fill the filter face velocity required at design air flow.

Electrical Wiring - Motor



Y – Connections

Δ - Connections