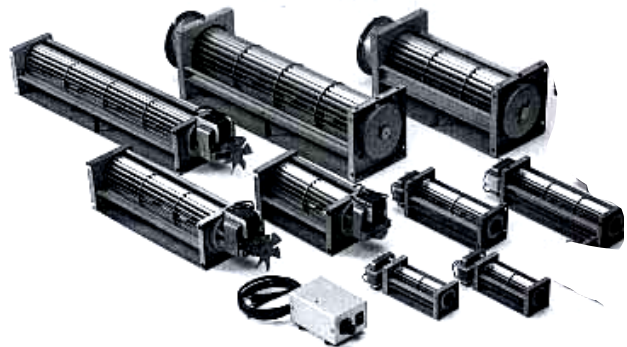




WIDEST RANGE OF INDUSTRIAL & AIR CONDITIONER PACKAGED FAN !

FANTECH's full ranges of industrial and building ventilating fan widely used in industry process Plant & refrigeration, packaged air conditioner installation.

Fantech Electric Industrial Co., Ltd. is a leading fan designer and manufacturer in Taiwan for over 2 decades, our full ranges of Sirocco Fan(single suction/double suction/twin type/V-blet type), Turbo Fan, Duct InLine Fan, AC/DC Cross Flow Fan, Air Curtain..., under the strict quality control & complete operation test chamber, we serve our customers satisfactorily and won a lot of awards and fame in this field.





1. SIROCCO TYPE IMPELLERS

(Construction : Forward Curved Wheels)

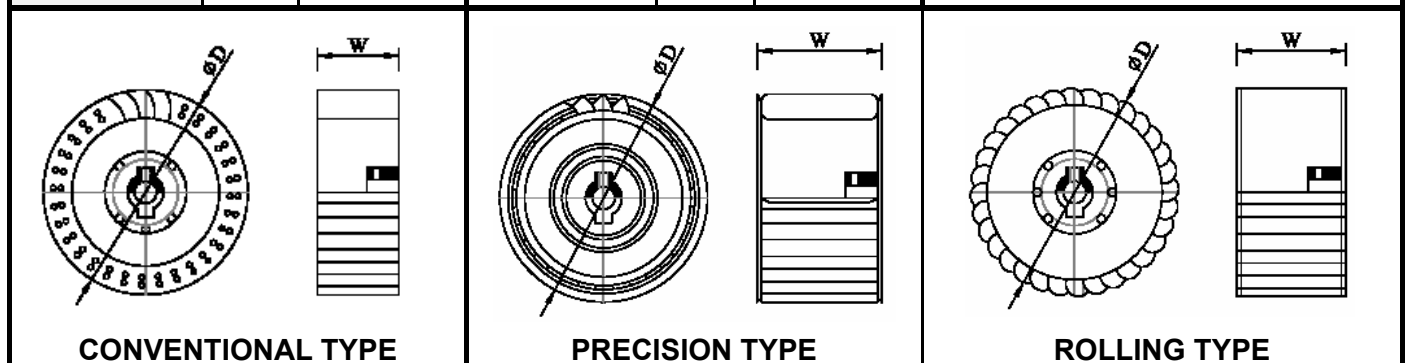


- 1) Multiple blower impellers have narrow width in its wheels and number of wheels range 20~64 and eminently suitable for air conditioners. The material of impellers is steel, aluminium plate or stainless plate which are shaped in curves. Three types such plates to main shafts : in these types are produced by pressing down cylindrical plate and side plate impeller feather pin (conventional type) or by main shaft cutting (mold type) or through a process of rolling main shaft (rolling type).
- 2) Fan drive type is classified into drive by direct connection to motor and V-belt connection and choice is depending on required functions.
- 3) Single as well as double inlet wheels are available.
- 4) In terms of direction of CW or CCW rotation are supplied

OUTLINE DIMENSIONS

Unit: mm

Model Numbering	Wheel Dia (ϕD)	Wheel Width (W)	Model Numbering	Wheel Dia (ϕD)	Wheel Width (W)	Model Numbering	Wheel Dia (ϕD)	Wheel Width (W)
FSC-070-000	74	24, 28	FSP-080-000	80	40	FSR-145-000	145	85
FSC-084-000	84	24, 28	FSP-088-000	88	28, 40	FSR-190-000	190	100
FSC-100-000	100	30, 35, 40	FSP-090-000	90	25, 28	FSR-206-000	206	74, 106
FSC-108-000	108	30, 35, 40	FSP-100-000	100	40, 50	FSR-227-000	227	80, 110
FSC-120-000	120	40, 50, 60	FSP-105-000	105	50, 60	FSR-260-000	260	100, 130
FSC-133-000	133	40, 50, 60	FSP-118-000	118	50, 60, 80	FSR-286-000	286	92, 110
FSC-140-000	140	50, 60, 70	FSP-125-000	125	50, 60, 80	FSR-295-000	295	115, 130, 150
FSC-160-000	160	50, 65, 80	FSP-132-000	132	50, 60, 70	FSR-328-000	328	140, 160
FSC-175-000	175	50, 75, 80	FSP-140-000	140	50, 60, 70	FSR-380-000	380	150, 190
FSC-180-000	180	65, 75, 85	FSP-148-000	148	50, 60, 80	FSR-450-000	450	200, 225
FSC-185-000	185	50, 60, 80	FSP-154-000	154	50, 60, 80	Model Numbering Code FSC — 074 — 000 Wheel Form Wheel Dia Wheel Width		
FSC-200-000	200	50, 60, 80	FSP-175-000	175	60, 80, 90			
FSC-227-000	227	80, 100	FSP-200-000	200	80, 90, 105			
FSC-250-000	250	100, 125	FSP-227-000	227	105, 130			
FSC-272-000	272	80, 100	FSP-260-000	260	90, 103, 105			
FSC-302-000	302	115, 150	FSP-300-000	300	150			
FSC-350-000	350	106						



Centrifugal Impellers

2. TURBO

(Construction : Backward Wheels)

- 1) Turbo blowers are suitable to high static pressure and heavy-duty environment. Width of impellers is very narrow and designed to work better under the condition demanding higher speed.
- 2) Most frequently used pressure ranges are between 100mmAq and 1000mmAq.
- 3) Mostly used for air transfer machine, air blower for boilers, chemical factories and industrial purpose.



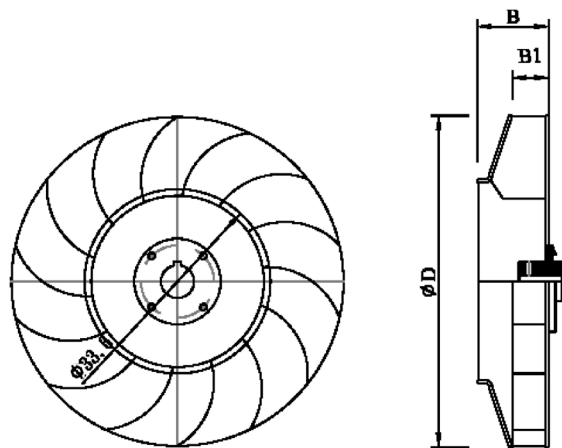
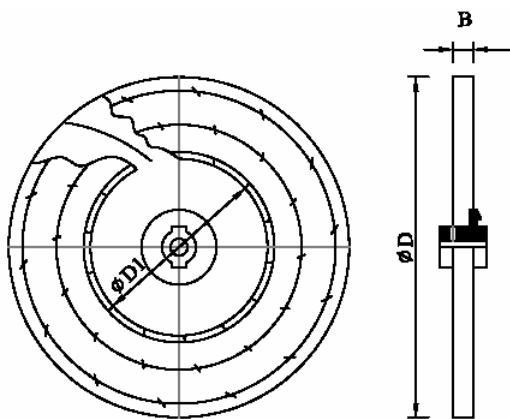
■ OUTLINE DIMENSIONS

Unit: mm

Model Numbering	Wheel Dia (ϕD)	D1	B	Model Numbering	Wheel Dia (ϕD)	D1	B1	B
FTS-121-000	121	65	15, 20	FTT-102-000	102	35	5	23
FTS-140-000	140	65	11, 14, 17	FTT-109-000	109	35	4	22
FTS-150-000	150	65	11, 13, 17, 22	FTT-170-000	170	85	11	26
FTS-153-000	153	65	11, 13, 17	FTT-230-000	230	115	13	30
FTS-160-000	160	65	11, 17, 22	FTT-254-000	254	107	23	42
FTS-170-000	170	75	17, 22, 30	FTT-302-000	302	131	23	42
FTS-180-000	180	75	17, 22, 30	FTT-360-000	360	202	34.8	65
FTS-190-000	190	75	17, 22, 30	FTT-380-000	380	230	47	88
FTS-200-000	200	75	17, 30					

Side Plate Taper TYPE

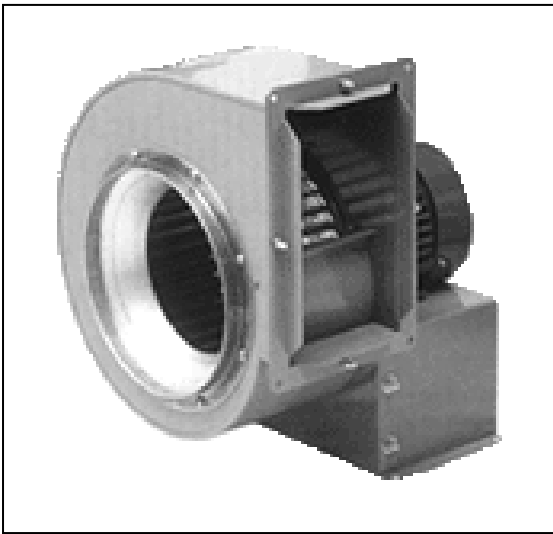
Side Plate Straight TYPE





Centrifugal Multiple Impellers Blower

1. Single inlet wheels directly connected drive type multiple impeller blower:

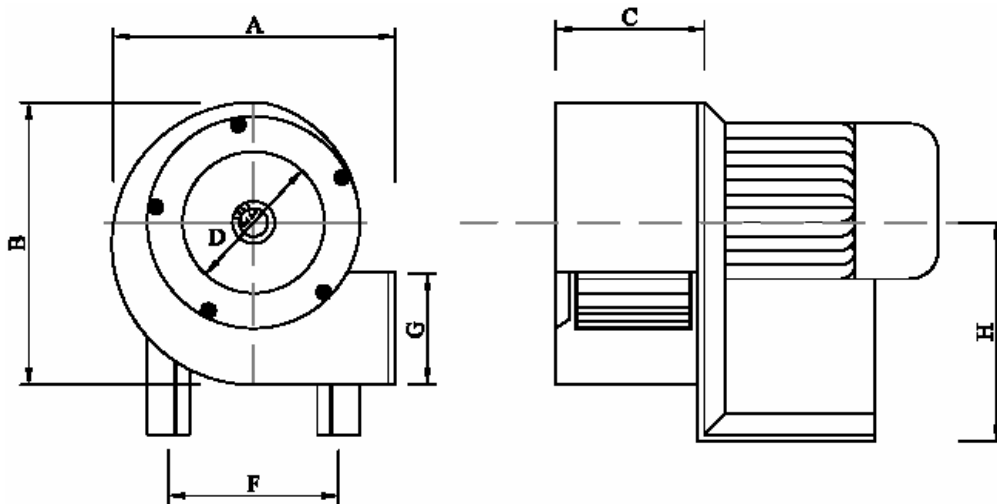


1) This is the type most frequently used for ordinary air carrier equipment and its construction is similar to centrifugal blower except its construction of impellers. Casing is made of steel plate and has volute curve and its size is smaller than turbo type. Discharge outlet of casing is bigger and wind velocity of discharge is low thus suitable to low speed duct and low noise type.

Mainly used for suction and discharging air equipment, small boilers, cooling and heating device, air shower and for ventilation at parking lot.

2) Depending on air volume and static pressure
 2-electrodes (3450RPM), 4= electrodes (1750RPM).
 6-electrodes (1150RPM) etc. can be used and depending on place of use direction of rotation and location of motors can be selected too.

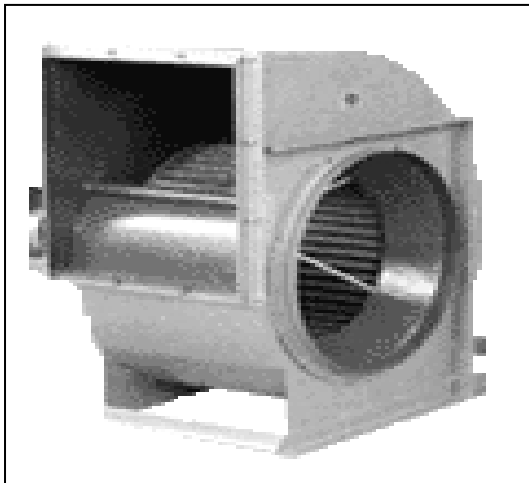
■ OUTLINE DIMENSIONS



■ TYPICAL SPECIFICATIONS

Unit: mm

Model No.	Motor (Kw)	Speed (RPM)	Impeller Prod. No.	A	B	C	D	E	F	G	H
FS 0425S	0.05	3400	FSC-108-040	146	148	61	φ 52	-	-	49	-
FS 0525S	0.15	3400	FSC-120-060	190	190	82	φ 96	82	165	72	140
FS 0625S	0.2	3400	FSC-160-065	217	214	100	φ 108	82	165	97	140
FS 0730S	0.2	1740	FSC-175-080	269	270	110	φ 137	120	212	123	173
FS 0830S	0.4	1740	FSC-200-080	296	29.	110	φ 156	120	212	164	182
FS 0930S	0.4	1740	FSC-227-080	318	328	110	φ 175	120	212	181	182
FS 0104S	0.75	1740	FSC-210-100	393	390	132	φ 200	118	235	230	200
FS 0124S	1.5	1740	FSC-302-115	428	465	142	φ 248	146	260	274	262

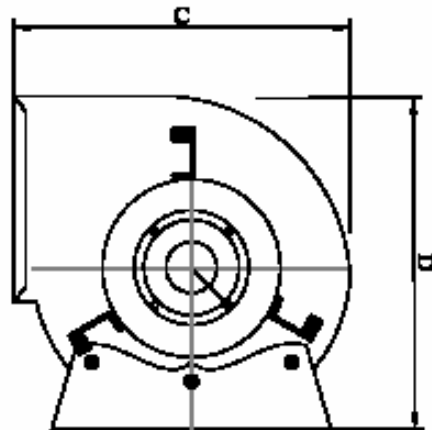
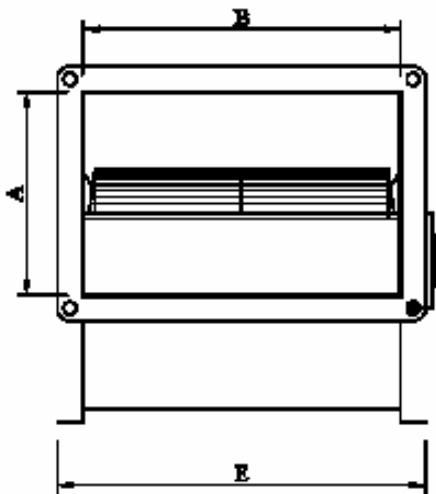


Centrifugal Multiple Impellers Blower

2. Tow inlets directly connected drive type multiple blower:

- 1) Robust in construction, easy to check and ideal for conditioner, constant temperature and humidity preserver, heater, cooling and heating equipment and ventilators. Motors are low-noise type 6-electrodes (1150RPM) and 8-electrodes (850RPM) are mainly used and by changing number of revolutions of motor proper level of air volume and velocity can be selected.

■ OUTLINE DIMENSIONS



■ TYPICAL SPECIFICATIONS

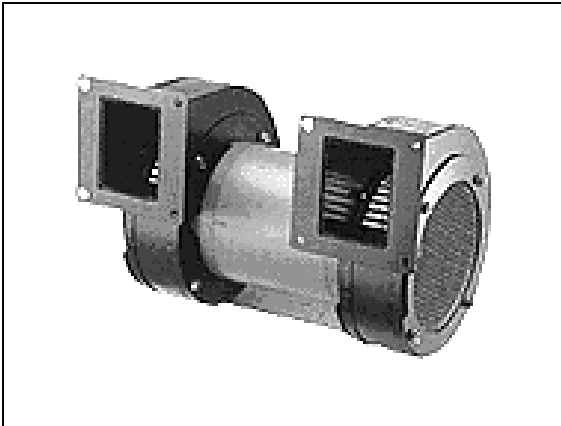
Unit: mm

Model No.	Motor (Kw)	Speed (RPM)		Impeller Prod. No.	A	B	C	D	E
		High	Low						
FS 880D	0.2Kw×6P	1100	920	FSR-200-210A FP-206-210	219	250	290	342	294
FS 910D	0.3Kw×6P	1050	920	FSR-227-260A FP227-260	234	300	315	360	344
FS 110D	0.4Kw×6P	1100	920	FSR-260-260A FP-260-260	272	313	401	416	380
FS 111D	0.75Kw×6P	1160	920	FSR-280-280A FP-280-280	300	344	421	464	380
FS 122D	1.1Kw×6P	1160	920	FSR-295-300A FP-300-300	312	358	438	486	420
FS 133D	1.5Kw×6P	1160	920	FSR-330-330A FP-330-330	354	390	489	552	420
FS 1512D	3.7Kw×6P	6P : 1160	8P : 920	FSR-380-300	385	380	560	618	530
	0.75Kw×8P								



Centrifugal Multiple Impellers Blower

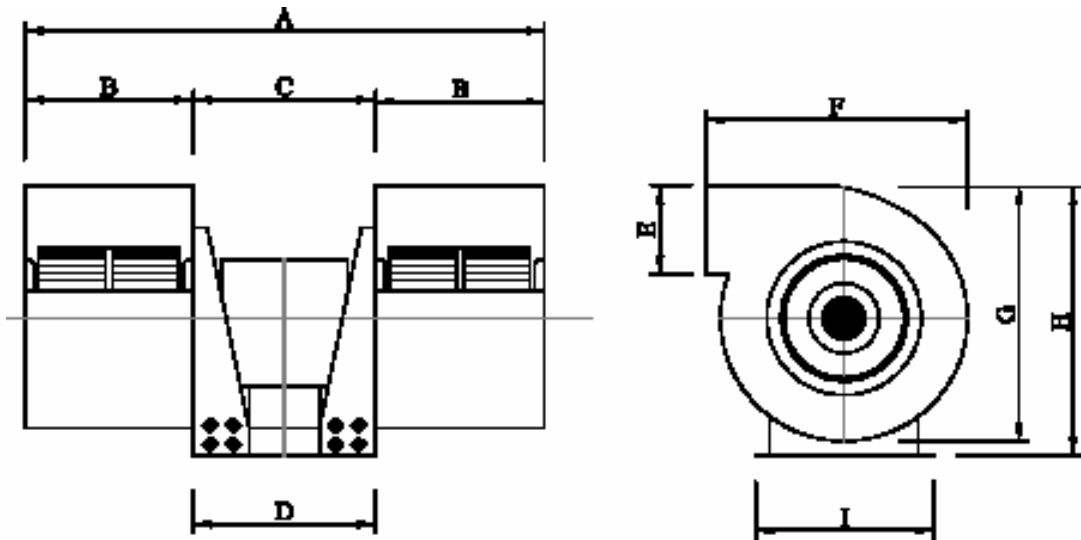
3. Twin inlets directly connected drive multiple impeller blower:



It is suitable to thermostat (20R/T or less), fan filter unit, large size air conditioner (10R/T or above).

Motor direct connection type has 6 electrodes (1150RPM) or 8 electrodes (850RPM) and number of RPL convertible. Depending on the demand 4-electrodes (1750RPM) and 2 electrodes (3450RPM) can also be supplied and depending on required air volume and static pressure etc. production by custom order is also possible

■ OUTLINE DIMENSIONS



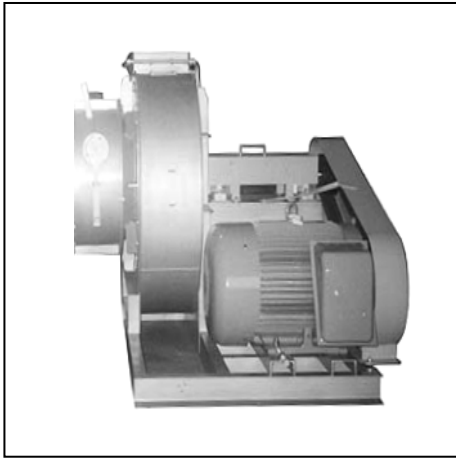
■ TYPICAL SPECIFICATIONS

Unit: mm

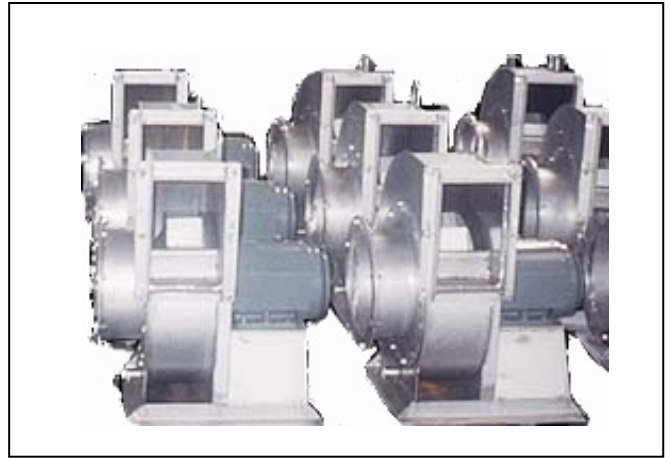
Model No.	Motor (Kw)	Speed (RPM)	Wheel No.	A	B	C	D	E	F	G	H	I
FT-070-040	0.36	1650	FSP-175-020	658	230	198	192	123	267	272	298	284
FT-080-040	0.67	1650	FSR-203-020	750	250	250	245	164	295	295	313	319
FT-090-040	1.25	1740	FSR-227-025	800	250	300	295	180	320	326	345	320
FT-010-080	0.55	830	FSR-260-030	950	300	350	345	220	394	392	434	360
FT-010-060	1.13	1120	FSR-260-030									
FT-012-080	1.1	830	FSR-295-038	1120	360	400	395	270	450	463	503	420
FT-012-060	2.2	1120	FSR-295-038									
FT-013-080	1.5	830	FSR-330-038	1200	400	400	395	354	489	505	600	460
FT-013-060	3.7	1120	FSR-330-038									



V-belt drive single & twin type multiple impeller blower:



FS-900D SINGLE TYPE



FS-900Dx2 TWIN TYPE

V-belt drive single & twin type multiple impeller blower is made up by assembly of ball bearing, shaft, bracket, motor and blower pulley, And performance curve of blower is a single type for this reason when twin type is chosen in consideration of need for greater air volume by application of air volume, RPM and shaft power can be found.

- ① Air Volume(m^3/min) = $\times 2.0$
- ② Revolution(R.P.M.) = $\times 1.05$
- ③ Shaft Power(Kw) = $\times 2.15$

* For example when air volume of single type blower is $50 m^3/min$, 1,000RPM and shaft power 1.0kw and replacing this type with two type is desired it is possible to find out $100m^3/min$. RPM1050 and shaft power 2.15kw.

* Provided that, regardless of replacing single type with twin type static pressure is constant.

■ Principle of blower property relationship

1) Formula through which air volume, wind pressure and shaft power are found under the condition where impeller diameter is constant but RPM varies.

- ① $Q_2 = Q_1 \times \frac{N_2}{N_1}$
- ② $PT_2 = PT_1 \times \left(\frac{N_2}{N_1}\right)^2$
- ③ $Kw_2 = Kw_1 \times \left(\frac{N_2}{N_1}\right)^3$

2) Formula though which air volume, wind pressure and shaft power are found under the condition where impeller RPM is constant and Impeller diameter varies.

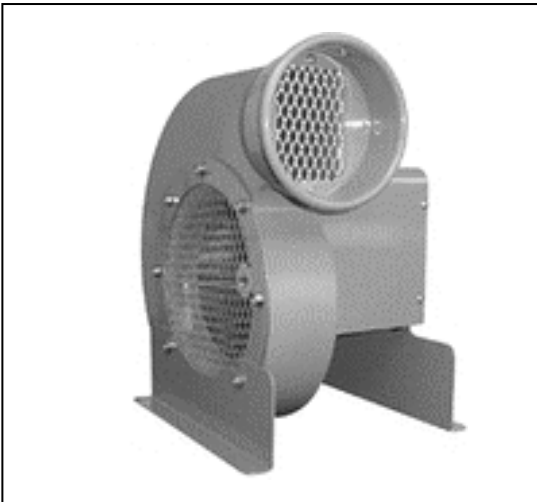
- ① $Q_2 = Q_1 \times \frac{D_2}{D_1}$
- ② $PT_2 = PT_1 \times \left(\frac{D_2}{D_1}\right)^2$
- ③ $Kw_2 = Kw_1 \times \left(\frac{D_2}{D_1}\right)^3$

Where

- Q = AIR VOLUME (m^3/min)
- PT = TOTAL PRESSURE (mmAQ)
- kw = SHAFT POWER (Kw)
- N = REVOLUTION (RPM)
- D = IMPELLER DIA (mm)



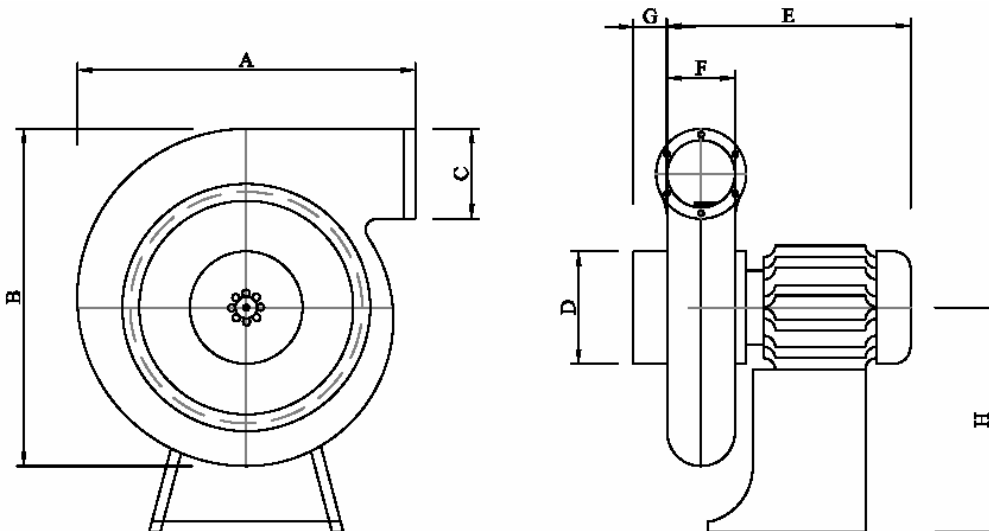
CENTRIFUGAL TURBO BLOWER



FEARTURE:

- 1) It is suitable for both high or low air pressure and has a higher efficiency than other types.
- 2) It is robust in construction, easy to handle and simple to install.
- 3) It has a broad scope of application including burner, for air transfer and chemical factories. etc.
- 4) The aforesaid blower has backward curved wheels for this reason it assures high efficiency and robustness. It is an ideal type of blower with broad range of application which works well either in air with constant temperature or filled with dust or sticky gas, high temperature air and variety of other gas. In particular by virtue of its strong absorptive power and high level of discharge air pressure assures excellent performance

■ OUTLINE DIMENSIONS

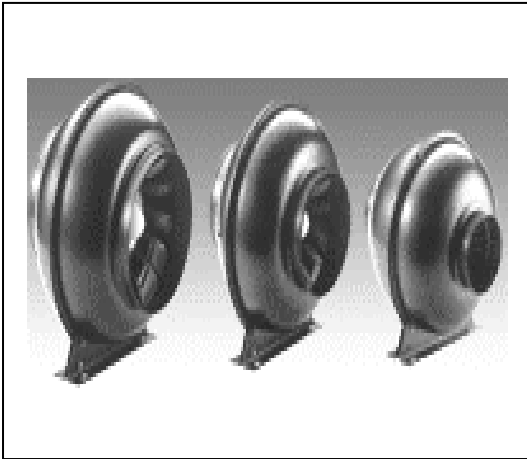


■ TYPICAL SPECIFICATIONS

Unit: mm

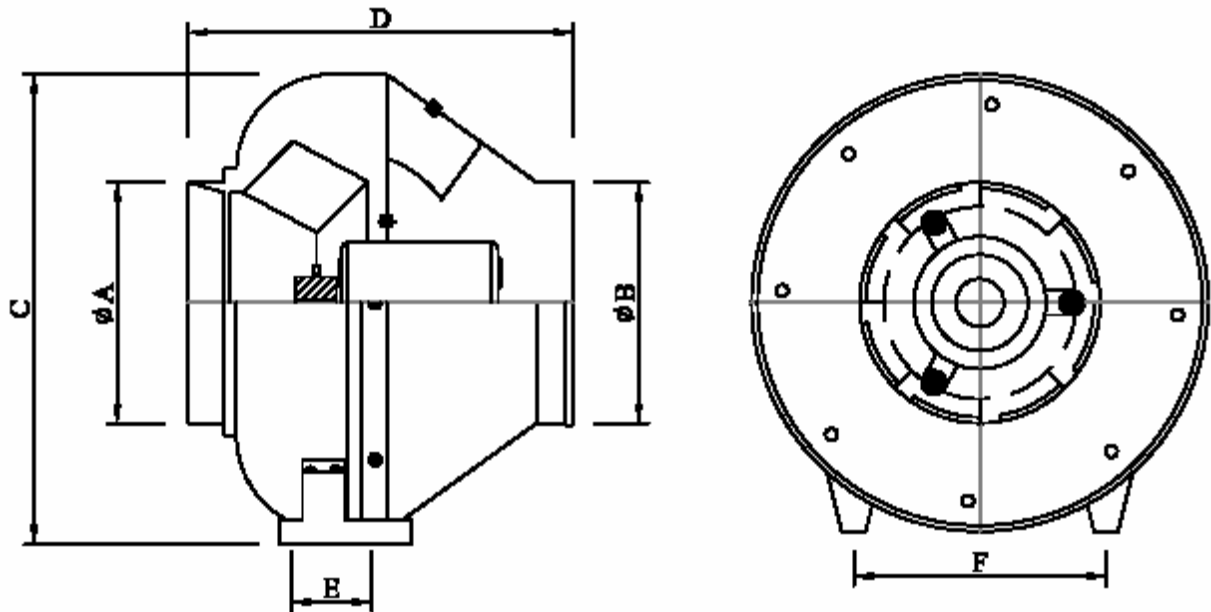
Model NO.	Motor (Kw)	Speed (RPM)	Impeller No.	A	B	C	D	E	F	G	H
FTT-02-004	0.4	3450	FTT-254-000	390	358	φ 60	φ 90	250	50	30	215
FTT-030-007	0.75	3450	FTT-302-000	480	510	φ 125	φ 150	330	100	40	300
FTT-034-010	1.5	3450	FTT-340-000	480	510	φ 125	φ 150	360	100	40	335
FTT-036-012	2.2	3450	FTT-360-000	550	560	φ 150	φ 190	400	115	55	362
FTT-038-015	3.7	3450	FTT-380-000	550	560	φ 150	φ 190	400	115	55	362

DUCT IN-LINE FANS



- 1) The above mentioned duct in line fans are fans designed to be a mixed air current fan type and it has been specially developed for the purpose of transferring from centrifugal power to shaft. Special feature of this fan is with its housing which can block the vibration and noise completely and air dynamically designed impellers.
- 2) Duct in-line fans are directly connected to duct line therefore it is compact and simple to install.
- 3) It can be used for the purpose of supply and discharge of air and it can be installed in any angle depending on position of duct.

■ OUTLINE DIMENSIONS



■ TYPICAL DIMENSIONS

Unit: mm

Model NO.	Motor (Kw)	Speed (RPM)	Max. noise (dB. A)	A	B	C	D	E	F
FD-020-000	150	1710	69	194	190	350	305	90	210
FD-025-000	400	1710	71	246	246	420	366	90	252
FD-030-000	750	1710	73	246	295	420	465	108	300

CROSS FLOW IMPELLERS

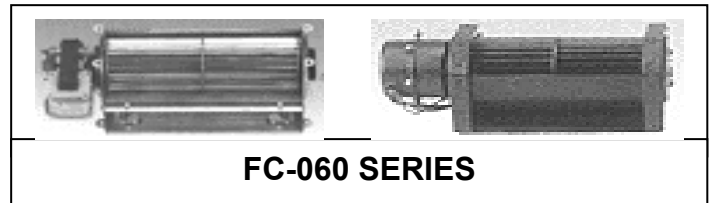
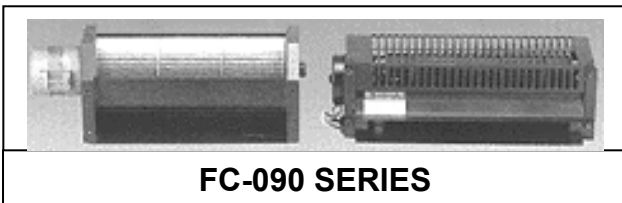
■ DIMENSIONS

Unit: mm



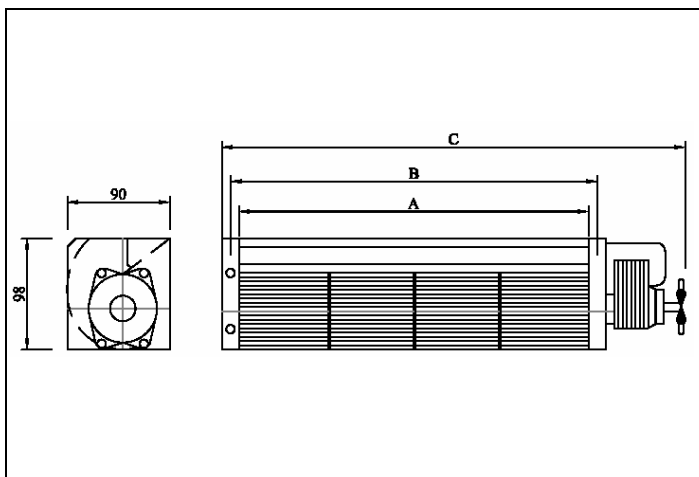
NO.	Mode No.	Wheel DIA (ϕ D)	Wheel Width	A
1	FCA-060-000	ϕ 60	260, 340, 420	A5052P
2	FCA-088-000	ϕ 88	224, 332, 442, 550	A5052P
3	FCS-097-000	ϕ 97	220, 294, 367, 439	ABS
4	FCA-120-000	ϕ 120	277, 412, 541, 680	A5052P
5	FCA-150-000	ϕ 150	300, 400, 500, 600	ABS
6	FCA-150-000	ϕ 150	350, 400, 500, 500	A5052P

CROSS FLOW FANS

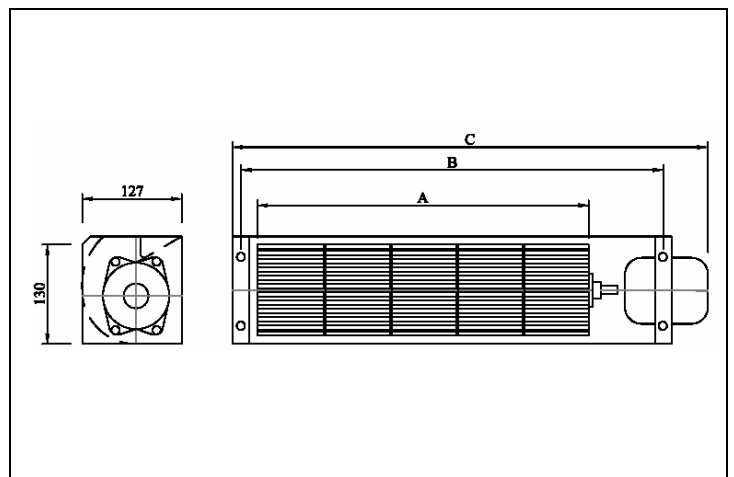


- 1) It is very quiet and suitable for producing quantity of air volume.
- 2) Impellers may be produced from ABS synthetic resin product which is nonmetal materials with strong anti-corrosion and resistant against high temperature besides aluminium.
- 3) Cross flow fan and cross flow impellers are applied to air curtain, film driers, fan coil units and suitable for air conditioners and cooling and heating machinery for home and office etc.

■ OUTLINE DIMENSIONS AND SPECIFICATIONS



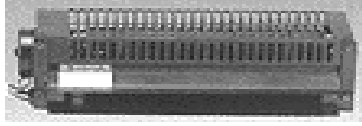
Model No.	Air Volume (m ³ /min)	Speed (RPM)	Motor Power (W)	Inch		
				A	B	C
FC-060-024	2.7 / 2	3300/2400	30 / 26	260	275	287
FC-060-030	5.7 / 3.5	3000/2100	65 / 35	307	322	334
FC-060-065	4	1740	35	380	394	482



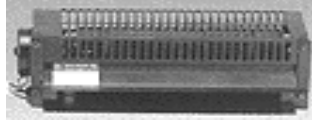
Model No.	Air Volume (m ³ /min)	Speed (RPM)	Motor Power (W)	Inch		
				A	B	C
FC-090-030	5	1600	42	222	307	327
FC-090-040	6.5	1580	47	296	381	401
FC-090-050	8	1650	50	368	453	473
FC-090-060	9.5	1500	53	442	527	547



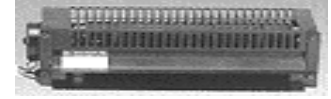
EXAMPLES OF AIR CURTAIN AND FLOW OF AIR CURRENT



FC-150 series



FC-120 series



FC-097 series

■ TYPICAL SPECIFICATIONS

Unit: mm

Model No.	Air Volume (m ³ /min)	Speed (Max m/s)	Motor (kW)	Impeller No.	Inch				
					A	B	C	D	E
FC-150-090	29	15	0.2 x4P	FCA-150-350	900	247	210	257	72
FC-150-010	37	15	0.4 x4P	FCA-150-400	1000	247	210	257	72
FC-150-012	44	15	0.4 x4P	FCA-150-500	1200	247	210	257	72
FC-120-090	18	10	0.15 x4P	FCA-120-300	900	204	176	210	60
FC-120-010	22	10	0.15 x4P	FCA-120-412	1000	204	176	210	60
FC-097-010	14	7.5	0.075 x4P	FCA-097-360	1000	150	120	160	45

■ OUTLINE DIMENSIONS

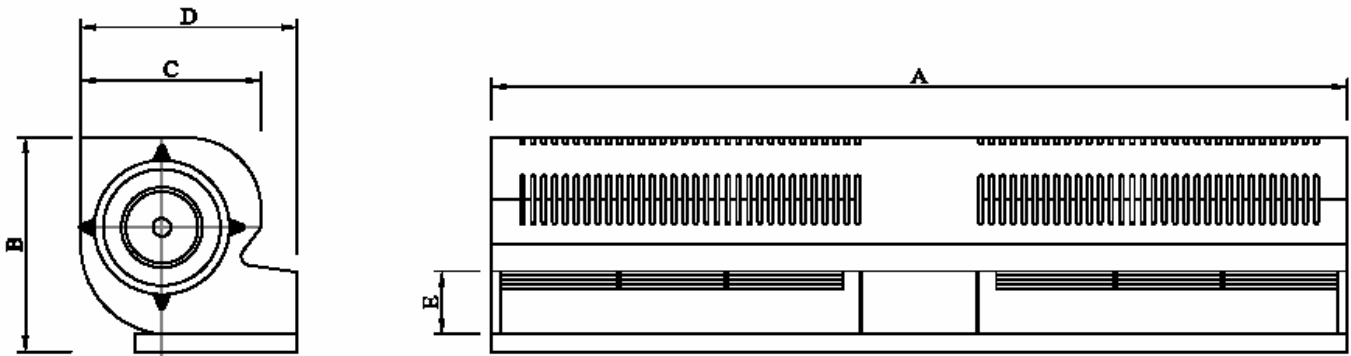


Fig. 1.

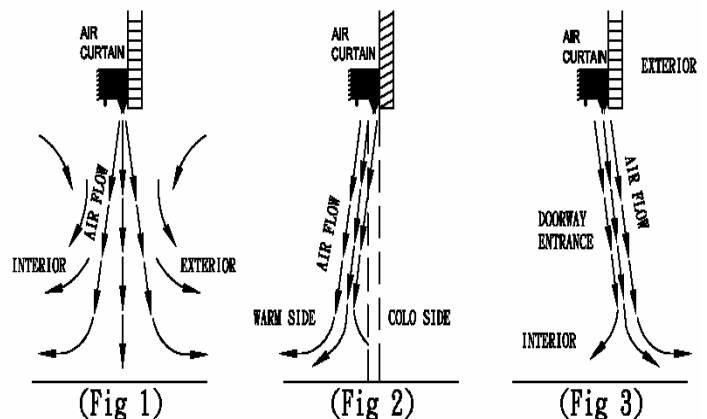
Air curtain shown in Fig. 1 blocks penetration of hot air into rooms in summer and cold air in winter additionally it effectively maintains indoor temperature level. Air curtain is used at entrance door of a building, stores and schools etc. in broad field of application.

Fig. 2.

Air curtain shown in Fig. 2 is applied for refrigerating and cold store and it blocks discharge of refrigerated air outward from refrigerator and cold stores and prevents penetration of external hot air from penetrating into cold store. It is applied to refrigerating equipment, cold room, refrigeration storeroom and store rooms.

Fig. 3.

Air curtain shown in Fig.3 blocks penetration of insects and dusts from outside into rooms and also preserves indoor room temperature. It is applied to restaurant, hospital and food storage etc.





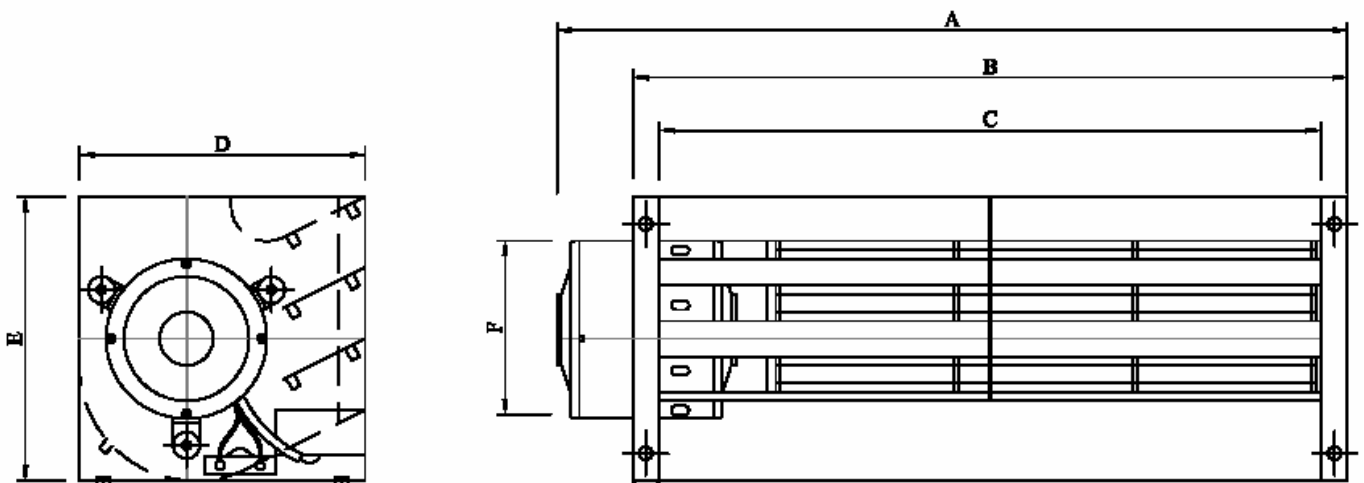
Cross Flow Cooling Fans



FEATURE:

- 1) It is an ideal fan for prevention of overheating and destruction of transformer and insulator by supplying air with a certain temperature.
- 2) In the special features of cooling fans are Included generation of great amount of air volume for its fan size and motor power and it runs quietly and without vibration.
- 3) This type of fans have robust structure and compact size and its installation and operation are very simple.

■ OUTLINE DIMENSIONS



■ TYPICAL SPECIFICATIONS

Unit: mm

Model No.	Air Volume (m ³ /min)	Motor (Kw)	Speed (RPM)	A	B	C	D	E	F
FC-150B	22	0.08	1680	500	442	400	224	204	φ 124
FC-150C	26	0.09	1680	580	522	480	224	204	φ 124
FC-150D	31	0.12	1680	680	622	580	224	204	φ 124



PROPELLER IMPELLERS



- 1) Propeller impellers are suitable to large air volume and low air pressure and air is blown toward the direction of shaft piping and structure are very simple.
- 2) Propeller Impellers are produced under the process of precision molding thus effective performance and yield are assured and its appearance is in streamline and good looking.
- 3) Scope of application of propeller impellers is quite extensive including for ventilation in structures and buildings and for heating and cooling for variety of units as well as for mines and tunnels. The aforementioned impeller is made from aluminium for this reason it has strong resistance against corrosion and with minimum power maximum air volume can be generated.

■ TYPICAL SPECIFICATIONS

Model No.	Whee Dia (ϕ D)	Whee Q'ty (EA)	Whee Angle ($^{\circ}$)	Spee d (RPM)	Static Pressure (mmAQ)									
					0		3		6		9		12	
					Air Volume (m^3 /Min)	Shaft Power (Kw)	Air Volume (m^3 /Min)	Shaft Power (Kw)	Air Volume (m^3 /Min)	Shaft Power (Kw)	Air Volume (m^3 /Min)	Shaft Power (Kw)	Air Volume (m^3 /Min)	Shaft Power (Kw)
FP-250-00	250	3	40	1740	30	0.041	24	0.042	20	0.044	16	0.05		
FP-300-00	300	4	33	1150	28	0.021	24	0.027	12	0.035	9	0.038		
FP-350-00	350	4	33	1140	46	0.044	39	0.056	29	0.06	17	0.06		
FP-400-00	400	4	30	1150	56	0.06	52	0.07	44	0.09	36	0.11		
FP-450-00	450	4	30	1150	87	0.14	82	0.15	72	0.17	60	0.19	51	0.22
FP-500-00	500	6	27	1150	106	0.19	99	0.21	91	0.23	80	0.25	72	0.28
FP-550-00	550	6	27	1150	147	0.37	143	0.39	137	0.42	129	0.45	110	0.5
FP-600-00	600	6	27	1150	195	0.5	186	0.52	179	0.53	169	0.55	154	0.6