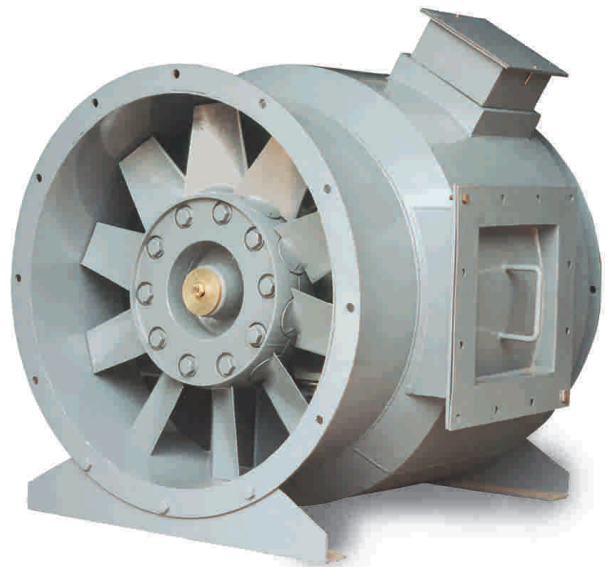




Axial Flow Fan And Centrifugal Fan



Fans for the Long Run!

MARATHON Electric the Pioneer and acknowledged leader in Air Technology offers a wide range of AXIAL Flow and Centrifugal Fans suitable for Industrial ventilation, Air Conditioning, Dust extraction and Fume extraction systems.

Custom built fans catering to the specific requirement of Steel Plant, Fertilizer Plant, Tea Industry, Mine, Ship, Power Plants (Thermal and Nuclear) Chemical Plant etc. are also available.

AXIAL FLOW FAN

Features

Axial Flow Fans are available in wide range of combination from 12" to 75" diameter fitted with Motors from 0.37 kW to 110 kW in 2 Pole, 4 Pole, 6 versions. Motors are suitable for 415 volts $\pm 10\%$, 50 Hz $\pm 5\%$, 3 Phase Power Supply, as per IS:325/1996, which are in-house manufactured ensuring better fitment and proper matching. Fans are available in single phase version also.



Duct mounted Fan

Axial Flow Fans are capable of handling upto 300000 m³/hr air delivery and static pressure upto 120 MM WG. Further pressure can be developed with multiple staging of fans.

Construction

Fan Casing is made of heavy gauge MS Sheet (as per IS-1079/2062) having robust construction. It has flanges at both ends for easy fixing on ducts/walls.

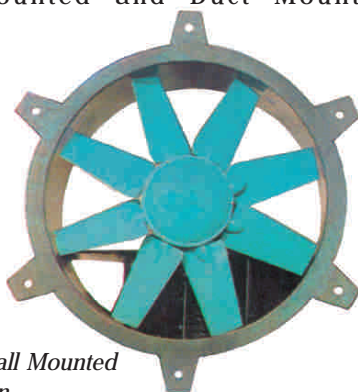
Impeller is made of Die Cast aluminium (LM-6 of BS 1490/IS 617 Gr. 4600) having aerofoil design with adjustable pitch angles. The solidity (No. of wings) is varied in order to use the most efficient part of the fan characteristics.

Axial Flow Fans are tested in accordance with IS-3588-1991.

Standard fans are finished with synthetic enamel paint.

Depending on application, fans can be supplied with casing made of stainless steel or zinc sprayed MS sheet. Epoxy / chlorinated rubber paint may also be provided.

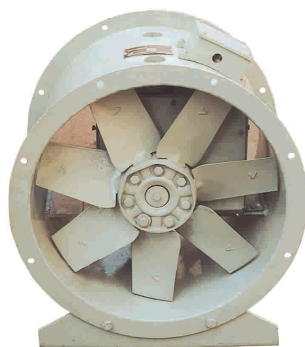
Fans are available both in Wall Mounted and Duct Mounted



Wall Mounted Fan

configuration. Fan selection chart (full solidity in 12" to 60", Full/half solidity in 75") and general arrangement dimensions are given in Table -1 & 2 respectively. Following special application fans are also offered depending on application and end use.

Bifurcated Fans :



MARATHON Electric Bifurcated Fans are available from sizes 19" to 75". These fans are used to handle hazardous air, where motors are kept outside the air stream.

Flame Proof Fans :



MARATHON Electric Flame Proof Axial Fans are available from sizes 15" to 75" and are used extensively in Fire Hazard Areas.

Roof Extractor Unit :



MARATHON Electric Roof Extractor Units are available from sizes 19" to 60", fitted with Hood and Bottom Plate. These units are used on the roof to extract and exhaust contaminated air.

Belt Driven Fan :



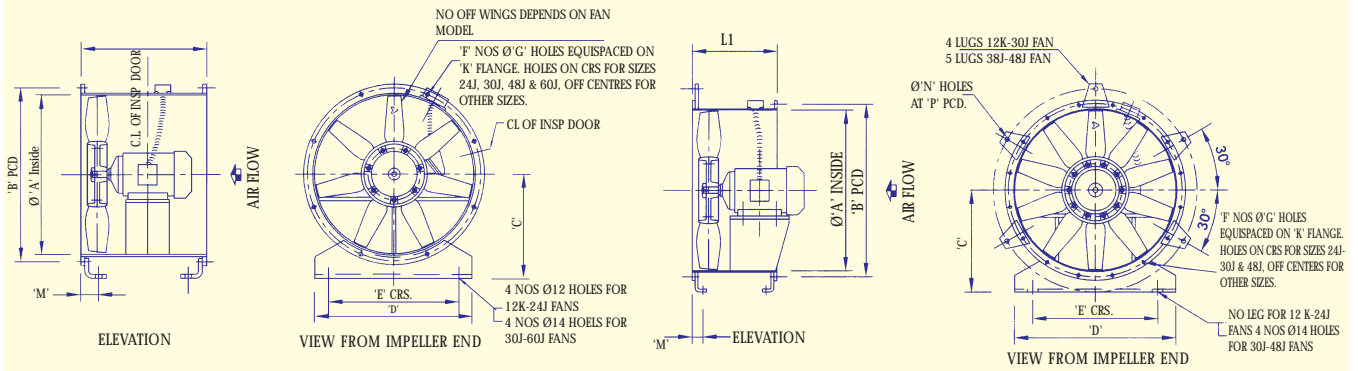
MARATHON Electric Belt Driven Fans are available from sizes 19" to 75". Fans are driven by belt and pulley arrangement. The motor is located outside the air stream.

Accessories :

Following (optional) accessories are also available.

- Louvre Shutter
- Wall Cowl and Bird Screen
- Filter / Filter Frame with adapter cone
- Dampers

Table 1



LONG CASING DUCT MOUNTED

SHORT CASING WALL MOUNTED

| FAN MODEL | MOTOR RATING | L | L1 | A | B | C | D | E | F | G | K | M | N | P | | | | | | | | | | | | | |
|-------------|----------------|-----|-----|------|------|-----|------|------|----|----|------|----|----|------|-----|-----|------|------|-----|------|------|----|----|------|----|----|------|
| 12K/K37-P2 | 0.37 kW 2 POLE | 380 | 225 | 305 | 349 | 203 | 305 | 273 | 8 | 10 | 40x6 | 36 | 14 | 440 | | | | | | | | | | | | | |
| 12K/K55-P2 | 0.55 kW 2 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15J/K37-P4 | 0.37 kW 4 POLE | 380 | 225 | 381 | 425 | 241 | 381 | 343 | 8 | 11 | 40x6 | 36 | 14 | 530 | | | | | | | | | | | | | |
| 15J/K55-P2 | 0.55 kW 2 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15J/K75-P2 | 0.75 kW 2 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15J/1K1-P2 | 1.1 kW 2 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15J/1K5-P2 | 1.5 kW 2 POLE | 406 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19J/K37-P4 | 0.37 kW 4 POLE | 406 | 225 | 483 | 541 | 311 | 483 | 438 | 8 | 14 | 40x6 | 36 | 14 | 640 | | | | | | | | | | | | | |
| 19J/K75-P4 | 0.75 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19J/1K5-P2 | 1.5 kW 2 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19J/2K2-P2 | 2.2 kW 2 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19J/3K7-P2 | 3.7 kW 2 POLE | 520 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24J/K37-P6 | 0.37 kW 6 POLE | 406 | 225 | 610 | 668 | 381 | 610 | 559 | 12 | 14 | 40x6 | 36 | 18 | 770 | | | | | | | | | | | | | |
| 24J/K55-P4 | 0.55 kW 6 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24J/K75-P4 | 0.75 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24J/1K1-P4 | 1.1 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24J/1K5-P4 | 1.5 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24J/2K2-P4 | 2.2 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30J/K55-P6 | 0.55 kW 6 POLE | 430 | 225 | 762 | 821 | 483 | 762 | 711 | 12 | 14 | 40x6 | 36 | 18 | 920 | | | | | | | | | | | | | |
| 30J/K75-P6 | 0.75 kW 6 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30J/1K1-P6 | 1.1 kW 6 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30J/1K5-P6 | 1.5 kW 6 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30J/1K5-P4 | 1.5 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30J/2K2-P4 | 2.2 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30J/3K7-P4 | 3.7 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30J/5K5-P4 | 5.5 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38J/1K5-P6 | 1.5 kW 6 POLE | 510 | 280 | 965 | 1035 | 597 | 965 | 914 | 16 | 18 | 65x6 | 36 | 18 | 1160 | | | | | | | | | | | | | |
| 38J/2K2-P6 | 2.2 kW 6 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38J/3K7-P6 | 3.7 kW 6 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38J/5K5-P6 | 5.5 kW 6 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38J/5K5-P4 | 5.5 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38J/7K5-P4 | 7.5 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38J/11K-P4 | 11 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38J/15K-P4 | 15 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38J/18K5-P4 | 18.5 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48J/5K5-P6 | 5.5 kW 6 POLE | | | | | | | | | | | | | | 640 | 305 | 1219 | 1289 | 737 | 1220 | 1143 | 20 | 18 | 65x6 | 41 | 22 | 1480 |
| 48J/7K5-P6 | 7.5 kW 6 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48J/11K-P6 | 11 kW 6 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48J/15K-P6 | 15 kW 6 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48J/18K5-P6 | 18.5 kW 6 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48J/18K5-P4 | 18.5 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48J/22K-P4 | 22 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48J/30K-P4 | 30 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48J/37K-P4 | 37 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48J/45K-P4 | 45 kW 4 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60J/18K5-P6 | 18.5 kW 6 POLE | 920 | - | 1526 | 1626 | 921 | 1524 | 1422 | 24 | 18 | 65x8 | 78 | - | - | | | | | | | | | | | | | |
| 60K/22K-P6 | 22 kW 6 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60J/30K-P6 | 30 kW 6 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60J/37K-P6 | 37 kW 6 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60J/45K-P6 | 45 kW 6 POLE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60J/55K-P6 | 55 kW 6 POLE | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | |

Notes :

- [1] All dimensions are in mm subject to tolerance as per IS 2102. [2] Power Supply 415 V ± 10%, 3 PH, 50 Hz ± 5%, AC [3] Motor Degree of protection : IP-55
- [4] Motor Class of Insulation : 'F' (temp limited to class 'B') [5] Painting Specification - 1 Coat of primer & 1 coat of synthetic enamel paint of colour D. A. Grey

SELECTION CHART – STANDARD AXIAL FLOW FAN

Table 2

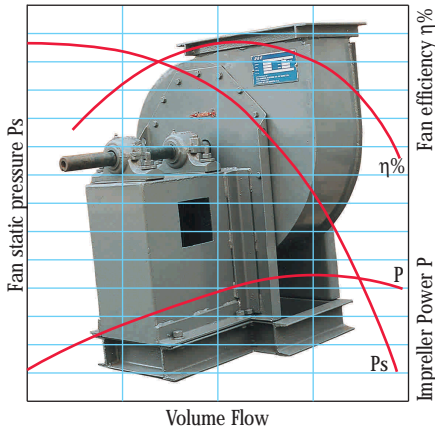
| Sl. No. | Fan Model | Fan dia in mm | Motor rating kw/pole | Motor F/S in rpm | Free air m3/hr | Volume flow in m3/hr at different Static pressure in mmwg | | | | | | | | | | | | | | |
|---------|------------|---------------|----------------------|------------------|----------------|---|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-----|-----|
| | | | | | | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 1 | 12K/K37-P2 | 305 | 0.37/2 | 2800 | 2300 | - | 2000 | 1750 | 1400 | - | - | - | - | - | - | - | - | - | - | - |
| 2 | 12K/K37-P2 | 305 | 0.37/2 | 2800 | 3900 | - | 3200 | 3000 | 2650 | - | - | - | - | - | - | - | - | - | - | - |
| 3 | 12K/K55-P2 | 305 | 0.55/2 | 2800 | 4400 | - | 3850 | 3650 | 3300 | - | - | - | - | - | - | - | - | - | - | - |
| 4 | 15J/K37-P4 | 381 | 0.37/4 | 1440 | 1750 | 1400 | 850 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | 15J/K37-P4 | 381 | 0.37/4 | 1440 | 4500 | 3700 | 3100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6 | 15J/K55-P2 | 381 | 0.55/2 | 2850 | 4500 | - | 4100 | 3900 | 3700 | 3300 | 3000 | 2600 | - | - | - | - | - | - | - | - |
| 7 | 15J/K75-P2 | 381 | 0.75/2 | 2850 | 5600 | - | 5300 | 5100 | 5000 | 4600 | 4300 | 3700 | - | - | - | - | - | - | - | - |
| 8 | 15J/1K1-P2 | 381 | 1.1/2 | 2850 | 7200 | - | 6700 | 6500 | 6200 | 5700 | 5400 | 5000 | - | - | - | - | - | - | - | - |
| 9 | 15J/1K5-P2 | 381 | 1.5/2 | 2850 | 8500 | - | 8000 | 7850 | 7300 | 7100 | 6800 | 6300 | - | - | - | - | - | - | - | - |
| 10 | 19J/K37-P4 | 483 | 0.37/4 | 1440 | 6750 | 6000 | 5500 | 4400 | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | 19J/K75-P4 | 483 | 0.75/4 | 1440 | 8600 | 8000 | 7500 | 6200 | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | 19J/1K5-P2 | 483 | 1.5/2 | 2900 | 7500 | - | - | - | 6500 | 6200 | 6000 | 5800 | 5200 | 4500 | 3500 | - | - | - | - | - |
| 13 | 19J/2K2-P2 | 483 | 2.2/2 | 2900 | 11500 | - | - | - | 10000 | 9800 | 9500 | 9000 | 8600 | 7500 | 6500 | - | - | - | - | - |
| 14 | 19J/3K7-P2 | 483 | 3.7/2 | 2900 | 15300 | - | - | - | 14200 | 13850 | 13600 | 13100 | 12700 | 11700 | 10500 | - | - | - | - | - |
| 15 | 24J/K37-P6 | 610 | 0.37/6 | 940 | 4900 | 4000 | 2200 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16 | 24J/K55-P6 | 610 | 0.55/6 | 940 | 11000 | 8700 | 8000 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 17 | 24J/K75-P4 | 610 | 0.75/4 | 1440 | 10000 | - | 9000 | 8300 | 7000 | - | - | - | - | - | - | - | - | - | - | - |
| 18 | 24J/1K1-P4 | 610 | 1.1/4 | 1440 | 13500 | - | 12000 | 10000 | 9800 | - | - | - | - | - | - | - | - | - | - | - |
| 19 | 24J/1K5-P4 | 610 | 1.5/4 | 1440 | 15500 | - | 13600 | 13000 | 11300 | - | - | - | - | - | - | - | - | - | - | - |
| 20 | 24J/2K2-P4 | 610 | 2.2/4 | 1440 | 17000 | - | 16500 | 15500 | 14000 | - | - | - | - | - | - | - | - | - | - | - |
| 21 | 24K/5K5-P2 | 610 | 5.5/2 | 2950 | 19500 | - | - | - | 18000 | 17900 | 17800 | 17100 | 16500 | 15500 | 14500 | 13500 | 12300 | 11000 | - | - |
| 22 | 24K/7K5-P2 | 610 | 7.5/2 | 2950 | 22500 | - | - | - | 21500 | 21250 | 21000 | 20500 | 20000 | 19000 | 185000 | 17500 | 16000 | 14500 | - | - |
| 23 | 24K/11K-P2 | 610 | 11/2 | 2950 | 28500 | - | - | - | 27000 | 26750 | 26500 | 26000 | 25500 | 24500 | 23000 | 22000 | 21000 | 20000 | - | - |
| 24 | 30J/K55-P6 | 762 | 0.55/6 | 940 | 10500 | 9500 | 8000 | 6000 | - | - | - | - | - | - | - | - | - | - | - | - |
| 25 | 30J/K75-P6 | 762 | 0.75/6 | 940 | 15000 | 13500 | 11750 | 9000 | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | 30J/1K1-P6 | 762 | 1.1/6 | 940 | 18000 | 17000 | 15000 | 12000 | - | - | - | - | - | - | - | - | - | - | - | - |
| 27 | 30J/1K5-P6 | 762 | 1.5/6 | 940 | 21500 | 20000 | 18000 | 15800 | - | - | - | - | - | - | - | - | - | - | - | - |
| 28 | 30J/1K5-P4 | 762 | 1.5/4 | 1450 | 14000 | - | 13000 | 12000 | 11300 | 10250 | 9000 | 8000 | - | - | - | - | - | - | - | - |
| 29 | 30J/2K2-P4 | 762 | 2.2/4 | 1450 | 18500 | - | 17000 | 15800 | 15000 | 14000 | 12800 | 11000 | - | - | - | - | - | - | - | - |
| 30 | 30J/3K7-P4 | 762 | 3.7/4 | 1450 | 22000 | - | 20500 | 19800 | 18500 | 17800 | 16500 | 14500 | - | - | - | - | - | - | - | - |
| 31 | 30J/5K5-P4 | 762 | 5.5/4 | 1450 | 34000 | - | 32000 | 31000 | 29000 | 27500 | 26000 | 24000 | - | - | - | - | - | - | - | - |
| 32 | 38J/1K5-P6 | 965 | 1.5/6 | 960 | 19500 | - | 17000 | 15250 | 13000 | 9800 | - | - | - | - | - | - | - | - | - | - |
| 33 | 38J/2K2-P6 | 965 | 2.2/6 | 960 | 25000 | - | 21500 | 19500 | 18000 | 14800 | - | - | - | - | - | - | - | - | - | - |
| 34 | 38J/3K7-P6 | 965 | 3.7/6 | 960 | 36500 | - | 33500 | 31500 | 29500 | 26500 | - | - | - | - | - | - | - | - | - | - |

| Sl. No. | Fan Model | Fan dia in mm | Motor rating kw/pole | Motor F/S in rpm | Free air m3/hr | Volume flow in m3/hr at different Static pressure in mmwg | | | | | | | | | | | | | | |
|---------|---------------|---------------|----------------------|------------------|----------------|---|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-------|
| | | | | | | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| 35 | 38J/5K5-P6 | 965 | 5.5/6 | 960 | 45000 | - | 42000 | 39000 | 37000 | 34000 | - | - | - | - | - | - | - | - | - | - |
| 36 | 38J/5K5-P4 | 965 | 5.5/4 | 1475 | 30000 | - | - | - | 26000 | 25000 | 24500 | 23000 | 22000 | 18000 | 15000 | - | - | - | - | - |
| 37 | 38J/7K5-P4 | 965 | 7.5/4 | 1475 | 39000 | - | - | - | 35000 | 33000 | 32500 | 30500 | 30000 | 26000 | 22000 | - | - | - | - | - |
| 38 | 38J/11K-P4 | 965 | 11/4 | 1475 | 48000 | - | - | - | 46000 | 45000 | 44000 | 42500 | 41000 | 37500 | 32500 | - | - | - | - | - |
| 39 | 38J/15K-P4 | 965 | 15/4 | 1475 | 61000 | - | - | - | 56000 | 54500 | 54000 | 51500 | 51000 | 47000 | 44000 | - | - | - | - | - |
| 40 | 38J/18K5-P4 | 965 | 18.5/4 | 1475 | 68000 | - | - | - | 65000 | 63000 | 62000 | 60000 | 58500 | 54500 | 51000 | - | - | - | - | - |
| 41 | 48J/5K5-P6 | 1219 | 5.5/6 | 975 | 42000 | - | - | - | 36000 | 34500 | 30500 | 28000 | 22000 | - | - | - | - | - | - | - |
| 42 | 48J/7K5-P6 | 1219 | 7.5/6 | 975 | 55000 | - | - | - | 47000 | 45500 | 43000 | 39000 | 35000 | - | - | - | - | - | - | - |
| 43 | 48J/11K-P6 | 1219 | 11/6 | 975 | 72000 | - | - | - | 62000 | 59500 | 57000 | 52500 | 50000 | - | - | - | - | - | - | - |
| 44 | 48J/15K-P6 | 1219 | 15/6 | 975 | 83000 | - | - | - | 77000 | 74500 | 69000 | 67500 | 64000 | - | - | - | - | - | - | - |
| 45 | 48J/18K5-P6 | 1219 | 18.5/6 | 975 | 90000 | - | - | - | 85000 | 81000 | 75000 | 73000 | 70000 | - | - | - | - | - | - | - |
| 46 | 48J/18K5-P4 | 1219 | 18.5/4 | 1480 | 62000 | - | - | - | - | - | - | - | - | 50000 | 45000 | 41000 | 38000 | 35000 | 28000 | - |
| 47 | 48J/22K-P4 | 1219 | 22/4 | 1480 | 71000 | - | - | - | - | - | - | - | - | 59000 | 57000 | 54000 | 49000 | 44000 | 39000 | - |
| 48 | 48J/30K-P4 | 1219 | 30/4 | 1480 | 92000 | - | - | - | - | - | - | - | - | 80000 | 75000 | 70000 | 68000 | 62000 | 53000 | - |
| 49 | 48J/37K-P4 | 1219 | 37/4 | 1480 | 102000 | - | - | - | - | - | - | - | - | 88000 | 84000 | 80000 | 75000 | 71000 | 67000 | - |
| 50 | 48J/45K-P4 | 1219 | 45/4 | 1480 | 150000 | - | - | - | - | - | - | - | - | 102000 | 98000 | 95000 | 90000 | 85000 | 78000 | - |
| 51 | 60J/18K5-P6 | 1524 | 18.5/6 | 975 | - | - | - | - | - | - | - | - | - | - | 50000 | 40000 | - | - | - | - |
| 52 | 60J/22K-P6 | 1524 | 22/6 | 975 | - | - | - | - | - | - | - | - | - | - | 62000 | 50000 | - | - | - | - |
| 53 | 60J/30K-P6 | 1524 | 30/6 | 975 | - | - | - | - | - | - | - | - | - | - | 85000 | 69000 | - | - | - | - |
| 54 | 60J/37K-P6 | 1524 | 37/6 | 975 | - | - | - | - | - | - | - | - | - | - | 100000 | 90000 | - | - | - | - |
| 55 | 60J/45K-P6 | 1524 | 45/6 | 975 | - | - | - | - | - | - | - | - | - | - | 124000 | 108000 | - | - | - | - |
| 56 | 60J/55K-P6 | 1524 | 55/6 | 975 | - | - | - | - | - | - | - | - | - | - | 139000 | 127000 | - | - | - | - |
| 57 | 75J1/2/30K-P6 | 1905 | 30/6 | 975 | - | - | - | - | - | - | - | - | - | 110000 | 93000 | 80000 | 50000 | - | - | - |
| 58 | 75J1/2/37K-P6 | 1905 | 37/6 | 975 | - | - | - | - | - | - | - | - | - | 130000 | 115000 | 100000 | 60000 | - | - | - |
| 59 | 75J1/2/55K-P6 | 1905 | 55/6 | 975 | - | - | - | - | - | - | - | - | - | 180000 | 165000 | 150000 | 130000 | - | - | - |
| 60 | 75J/2/75K-P6 | 1905 | 75/6 | 975 | - | - | - | - | - | - | - | - | - | 218000 | 208000 | 188000 | 168000 | - | - | - |
| 61 | 75J/55K-P6 | 1905 | 55/6 | 975 | - | - | - | - | - | - | - | - | - | - | - | - | - | 105000 | 95000 | 85000 |
| 62 | 75J/75K-P6 | 1905 | 75/6 | 975 | - | - | - | - | - | - | - | - | - | - | - | - | - | 140000 | 115000 | 95000 |

NOTE :

1. Fan section is based on air at 20°C and density 1.2 kg/m³
2. Fan performance and tolerance as per IS 3588 – 1987.
3. For selection of Fans in other solidity (no of blades), or in intermediate performance point please refer to Regional/Branch Offices or Factory

CENTRIFUGAL FAN



Features

MARATHON Electric offers wide range of Centrifugal Fans with highly efficient impellers of type Backward Inclined, Backward Curved, Aerofoiled, Forward Curved and Straight Radial, depending upon application.

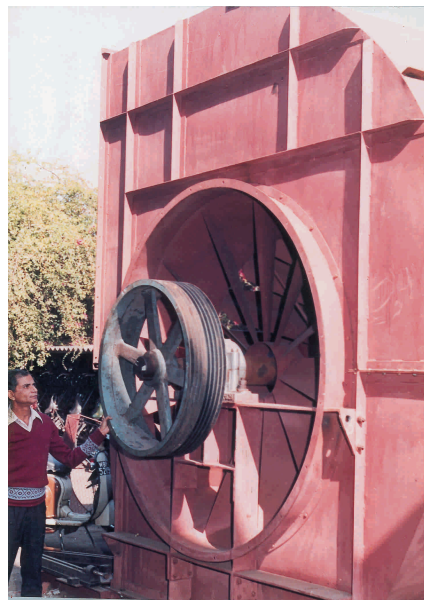
MARATHON Electric Centrifugal Fans are suitable for air delivery upto 300,000 M³/Hr and Static Pressure upto 800 MM WG. Fans are available both in single inlet single width (SISW) and in double inlet double width (DIDW) versions.

Construction :

Centrifugal Fans are usually made of mild steel (IS 1079/2062) rigid casing with Inspection window and drain plug. The impeller is mounted on C-40 (IS

1570) shaft. Double Row Ball/Spherical roller Bearings are used for smooth operation. Fans are either belt driven or direct coupled. Direct driven Fans, with Impeller mounted directly on motor shaft, are also available.

- Standard Fans are painted with synthetic enamel paint.
- Other than mild steel, fans are offered in Stainless Steel and Aluminium Construction also, depending on application need.
- For High temperature (from 100°C to 350°C) application, Aluminium cooling disc is provided and the fan is painted with Heat Resistant Aluminium Paint.



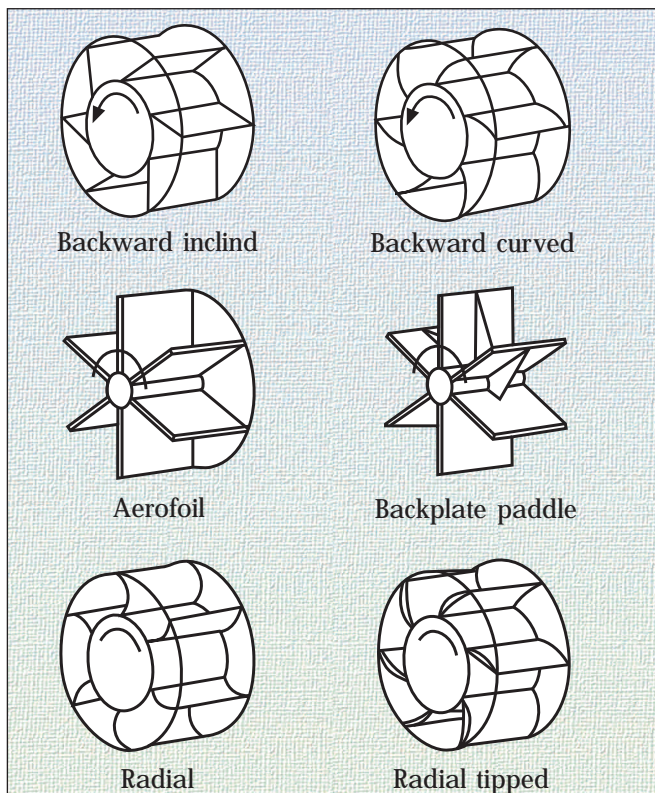
Special features

Following Special Features are provided depending application need.

- Spark Proof Construction.
- FRP Coating.
- Zinc Sprayed.
- Epoxy Paint.
- Chlorinated rubber paint.

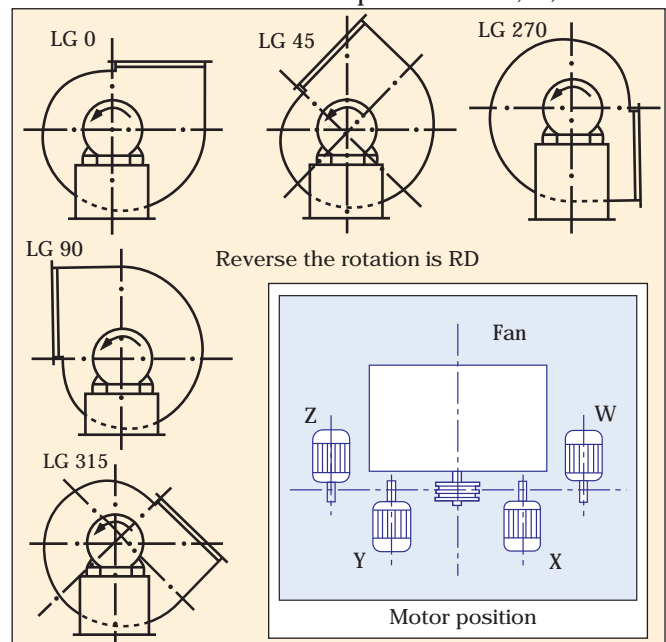
Following optional accessories are also available.

- Common base frame for Fan and Motor.
- V-belt drive set.
- Belt guard.
- Motor slide rail
- Foundation bolt
- Filter
- Filter frame with adapter cone.
- Inlet and outlet flexible connection.
- Inlet box
- Inlet and outlet dampers
- Antivibration mounting.



Discharge Rotation :

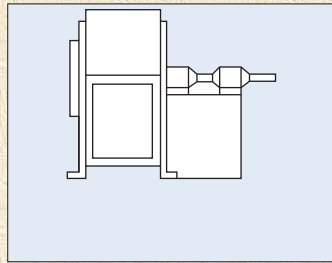
Fans are available in different discharge angles from 0° to 315° both in left hand and right hand rotation viewing from motor end with motor position as X, Y, W & Z.



Arrangement :

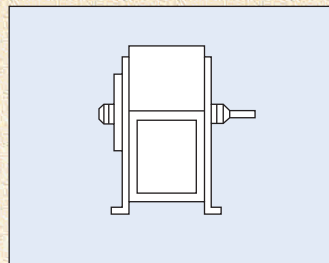
Fans are manufactured in five different drive arrangements depending upon application.

Arrangement 1
Single inlet pedestal



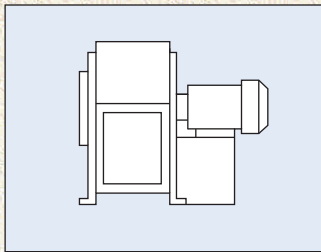
For belt drive. Impeller overhung. Two bearings on full-depth pedestal.

Arrangement 3
Single inlet bearer bar



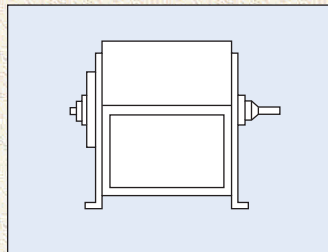
For belt drive. One bearing on each side of casing, supported by bearer bars.

Arrangement 4
Single inlet direct drive and stool



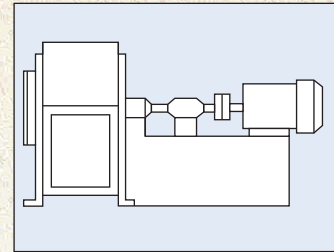
For direct drive. Impeller overhung on motor shaft. No bearings on fan. Motor feet supported by full-depth pedestal.

Arrangement 6
Double inlet bearer bar



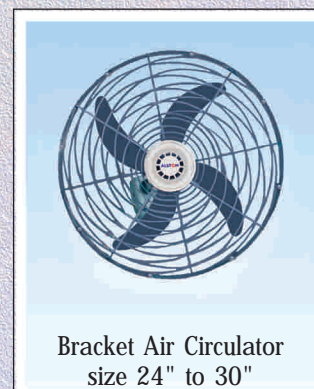
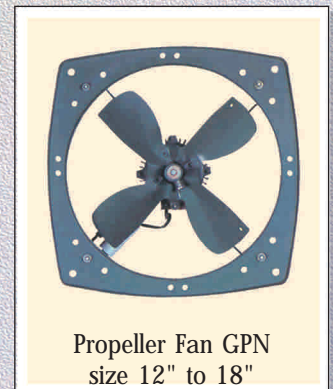
Double inlet, double width fan for belt drive. One bearing in each inlet, supported by bearer bars.

Arrangement 7
Single inlet coupling



For coupling drive. Generally as arrangement 1 but pedestal extended to receive motor.

Other products





Specialized custom built motors • Specialists in short cycle deliveries

Marathon Electric Motors (India) Ltd. Registered & Head Office: 58, Taratala Road, Kolkata - 700024. IT Motor & Fan Factory, Paharpur Works, 58, Taratala Road, Kolkata - 700024, Fax: 2469 5369 / 8530, Phone : 09903900801. Large IT Motor & HT Motor Factory, AEI Works 1, Taratala Road, Kolkata- 700024. **Marathon Regional Offices:** **New Delhi:** 708, Eros Building, 56, Nehru Place; Tel: 011 4160 7123, 09313290402. **Chandigarh:** Chamber No. 8a, 2 Floor, Sco No. 2441-42, Sector 22-C; Tel: 09316102451. **Mumbai:** 114 Navneelam, R.G. Thadani Marg, Worli; Tel: 022 3265 9844, 09322645753, Fax: 022 3040 1555. **Pune:** 41/14, Office Club Swaroop Complex Karve Road; Tel: 020 2546 3978, 09371025388. **Ahmedabad:** 415 / Platinum Plaza, Nr. Pushkar Tower, Judge-bungalow-bodakdev Road; Tel: 079 2560 2297, 09327048567. **Nagpur:** 1 Floor, Block A, Thapar Enclave, Plot No. 148, Ramdaspath; Tel: 0712 2526 220, 09373283527. **Raipur:** 1 Floor, 141, Sundernagar, Near Adarsh Chowk; Tel: 0771 2210 240. 09329128913. **Chennai :** Door No. 9, Flat No. 7, 1 Floor, Thiru. Vi. Ka. Road, Royapettah, (opp, Sathyam Theatre), Tel: 044 4351 0152, 09382102392, Fax: 044 4351 0153. **Secunderabad:** Cabin No. 47, 303, Swapnalok Complex, 92, S. D. Road; Tel: 040 2781 2724, 09391340619. **Bangalore :** C1-101, White House, 15 Cross, 6 Main R. T. Nagar; Tel: 080 2655 8729, 09341279429. **Bhubaneswar :** C/o. Plot No. 16-b, Engineers Colony, Old Station Bazar; Tel: 0674 231 3744, 09338212907. **Jamsbedpur:** C/o. Mr. D. P. Ghosh, House No. 7, Bidyasagar Path, Uliyan, Kadma; Tel: 0 93346 12014. **Marathon Electric India Pvt. Ltd.** Sec.-11 Model Town, Faridabad - 121006 (INDIA), Tel: 0129 2286421/2265340; Fax : 0129-2284855, email : gemi.sales@regalbeloit.com **GEMI Regional Offices :** **Ahmedbad :** 406, Vedant Complex, 7, Kalpana Colony, Off. C.G. Road, Navrangpura, Ahmedabad-380009, Tel: 079-26561819, 9825611502. Fax: 079-26560452. **Chennai :** 6 Arcot Road, Vadapalani, Chennai - 600092, Tel: 044-42136697, 42333353, 9840429331, Fax: 044-42082322. **Jaipur :** C/o Flat No. 104, Block A, Rama Heritage Apartments, Central Spine, Vidhyadhar Nagar, Jaipur-302 023. Ph: 9982655661. **Kolkata :** 58, Taratala Road, Kolkata - 700024; Tel: 91 033 24695560/61, Fax: 033 24695369/8530. **Mumbai :** B-908/909, Sagar Tech Plaza, Andheri - Kurla Road, Saki Naka, Andheri (East), Mumbai - 400072, Tel: 022-28523106, 9833756269, Fax: 022-28528938. **Pune :** C/o: 8, Sethu Apartments, Right Bhusari Colony, Paud Road, Kothrud, Pune-411038, Tel: 020-65224846, 9960604846. **Bangalore :** Tel:9342299995. **Hyderabad :** Tel:9393002665. **Delhi :** Flat No. 516-518, 5th Floor, Antriksh Bhawan, 22 K.G. Marg New Delhi -01 Tel: 9873184209.