

D114 / E10-4 / (7-13)

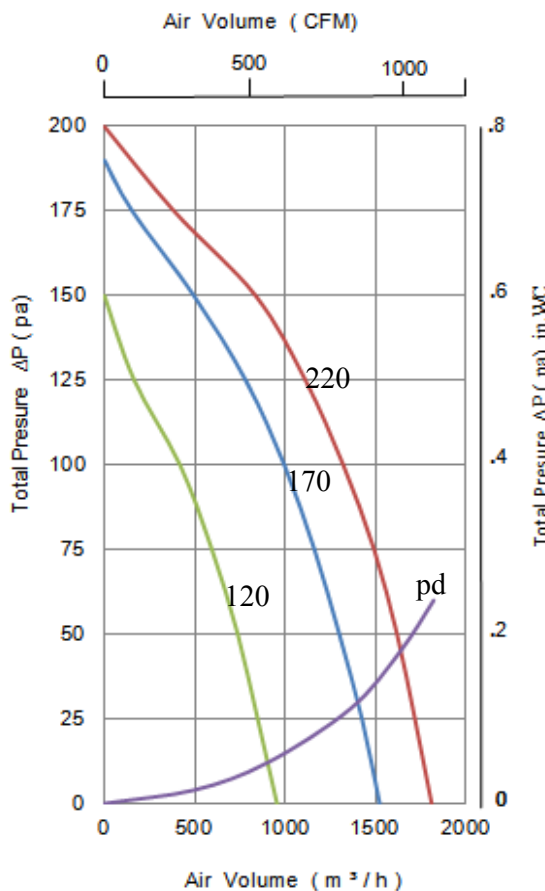
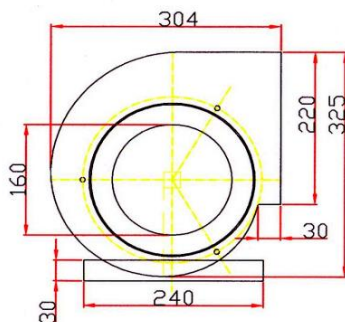


Diagram is based on standard air $\rho=1.2 \text{ kg/m}^3$.

Pd is system curve for dynamical pressure part related to Fan Outlet Area (Curve for free blowing fan). **Total Pressure** (the sum of the dynamic and static pressures) is shown in relation to the **Air Volume**, Dynamic pressure is shown below system line Pd and Static Pressure is shown above that line.



Double Inlet Centrifugal Fan 1000 CFM 220V 1N~ 50 Hz

- Voltage Range 100 ~ 220 [V]
- Frequency 50 [Hz]
- Current *max @ free air* 1.2 [A]
- Power *max @ free air* 230 [W]
- Fan speed *@ free air* 900 [rpm]
- Insulation Class H
- Protection Class IP65
- Power Factor ($\cos \phi$) 0.90
- Capacitor 6 [μF] 400 [V]
- Net Weight 8 [kg]
- Starting Torque 1.5 [nm]
- Starting Current *max* 2 [A]
- Air Temperature *max* 60 [$^{\circ}\text{C}$]

Voltage [V]	Air Volume [m³/h] @ $\rho=1.2 \text{ kg/m}^3$					
	Free Air	Total Pressure ΔPt [Pa]				
		50	75	100	150	200
120	860	737	594	418	0	
170	1370	1298	1160	994	495	0
220	1630	1600	1490	1320	836	0

Wheel Diameter = 180 mm = 7 in

24 Blades , 25 mm = (4/5)" Chord Width

Tip Speed = rpm * 0.012 [m/s]

= rpm * 2.37 [FPM]

Outlet Area = 0.048 [m²] = 0.52 [SQ.FT.]

Voltage [V]	Sound Pressure Level in dB(A)		
	100	170	220
Inlet	46	59	64
Outlet	48	60	65

Measured in distance of 3m , @ *free air*

