

E111 / E10-4 / (7-7)

single Inlet Centrifugal Fan 700 CFM 220V 1N~ 50 Hz

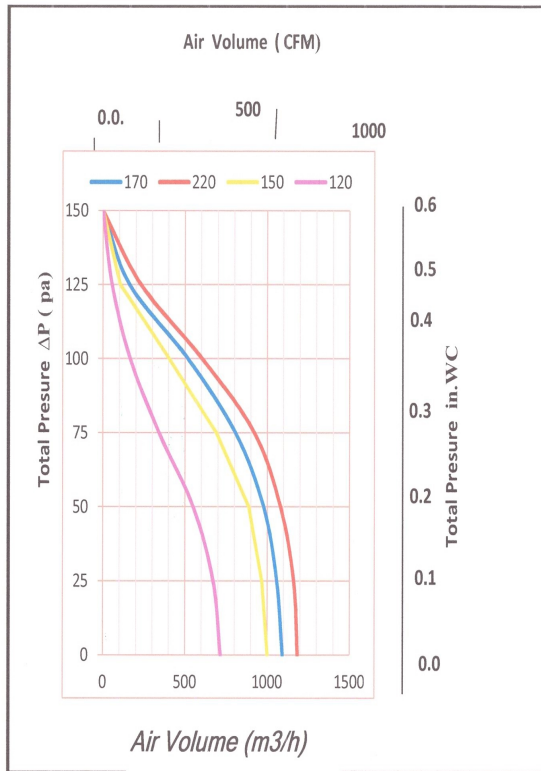


Diagram is based on standard air $\rho=1.2 \text{ kg/m}^3$.

P_d 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 P_d and Static Pressure is shown above that line.

- Voltage Range 100 ~ 220 [V]
- Frequency 50 [Hz]
- Current *max @ free air* 1 [A]
- Power *max @ free air* 169[W]
- Fan speed *@ free air* 1326 [rpm]
- Insulation Class H
- Protection Class IP65
- Power Factor ($\cos \phi$) 0.90
- Capacitor 6 [μF] 400 [V]
- Net Weight 8.5 [kg]
- Starting Torque 1.5 [nm]
- Starting Current *max* 2 [A]
- Air Temperature *max* 60 [$^{\circ}\text{C}$]

Voltage [V]	Air Volume [m ³ /h] @ $\rho=1.2 \text{ kg/m}^3$						
	Free Air	Total Pressure ΔP_t [Pa]					
		25	50	75	100	125	150
120	715	670	550	340	165	55	0
150	1000	965	885	690	405	105	0
170	1090	1060	980	805	520	160	0
220	1185	1160	1080	920	605	230	0

wheel Diameter = 180 mm = 7 in

29 Blades , 20 mm = (4/5)" Chord Width

Tip Speed = rpm * 0.012 [m/s]

= rpm * 2.37 [FPM]

Outlet Area = 0.021[m²] = 0.23 [SQ.FT.]

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

Voltage [V]	Sound Pressure Level in dB(A)			
	120	150	170	220
Inlet				
Outlet				

