

RD 545 / E65-6

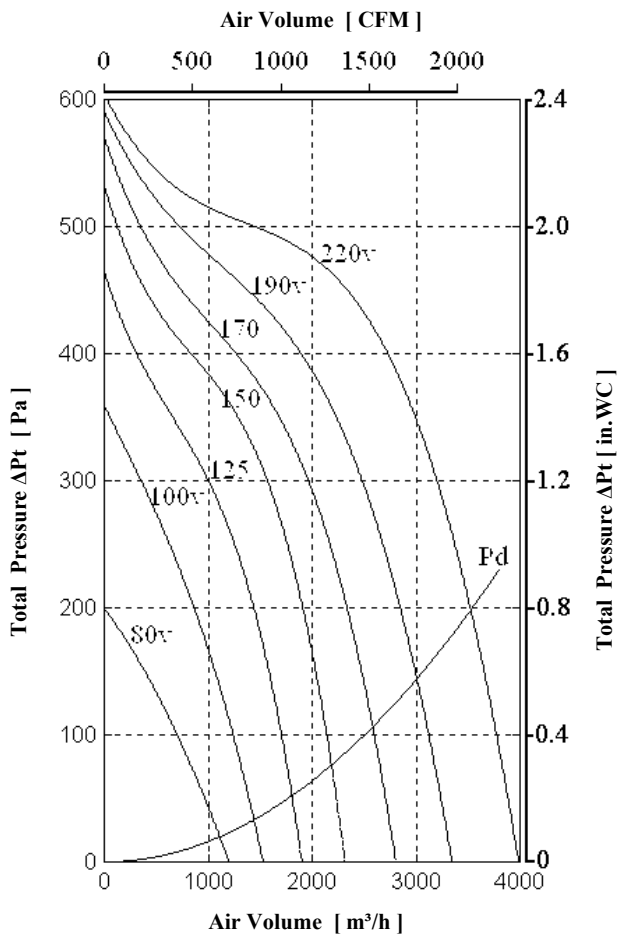
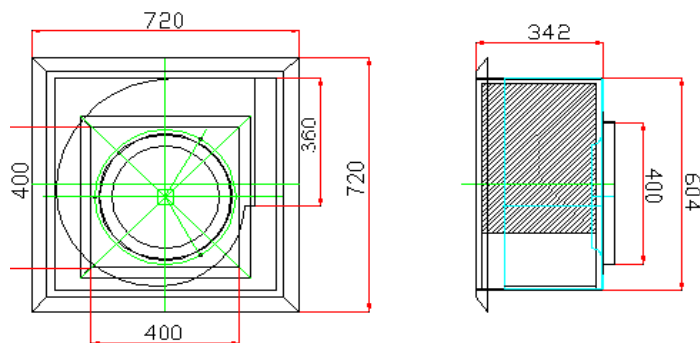


Diagram is based on standard air $\rho=1.2 \text{ kg/m}^3$. **Pd** is system curve for dynamical pressure part related to Fan Outlet Area (Curve for free blowing fan). **Total Pressure** (the sum of the dynamic and static pressures) is shown in relation to the **Air Volume**. Dynamic pressure is shown below system line Pd and Static Pressure is shown above that line.



Roof Down Discharged ,2000 CFM 220V 1N~ 50 Hz

- Voltage Range 100 ~ 220 [V]
- Frequency 50 [Hz]
- Current *max @ free air* 3.5 [A]
- Power *max @ free air* 750 [W]
- Speed *@ free air* 850 [rpm]
- Insulation Class H
- Protection Class IP65
- Power Factor ($\cos \phi$) 0.98
- Capacitor 25 [μF] 400 [V]
- Net Weight 23 [kg]
- Starting Torque 3.5 [nm]
- Starting Current *max* 7 [A]
- Air Temperature *max* 60 [$^{\circ}C$]

Voltage [V]	Air Volume [m^3/h] @ $\rho=1.2 \text{ kg/m}^3$					
	Free Air	Total Pressure ΔP_t [Pa]				
		100	200	300	400	500
80	1110	710				
100	1450	1240	870	360		
125	1810	1710	1440	1010	310	
150	2190	2140	1920	1570	830	120
170	2580		2330	1960	1270	350
190	3010		2850	2480	1900	720
220	3520		3510	3210	2730	1440

Wheel Diameter = 333 mm = 13 1/8"

40 Blades , 25 mm = 1 " Chord Width

Tip Speed = rpm * 0.017 [m/s]

= rpm * 3.45 [FPM]

Outlet Area = 0.049 [m^2] = 0.53 [SQ.FT.]

Voltage [V]	Sound Pressure Level dB(A)						
	80	100	125	150	170	190	220
Inlet	45	52	57	61	65	67	70
Outlet	46	54	59	62	67	70	72

Measured in distance of 3m , @ free air