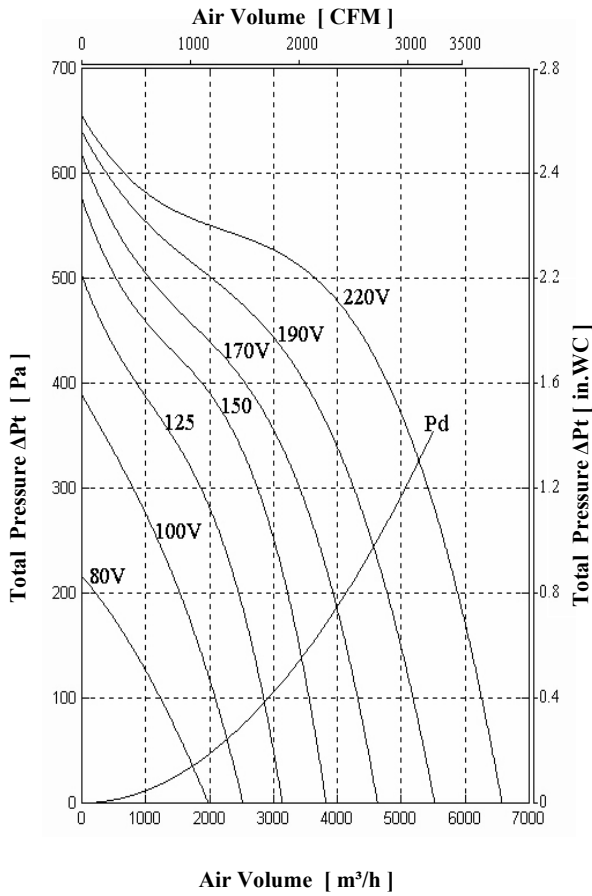


# D542 / E65-6

# Double Inlet Centrifugal Fan 3500 CFM , 220V 1N~ 50 Hz



- Voltage Range 100 ~ 220 [V]
- Frequency 50 [Hz]
- Current *max @ free air* 4.0 [A]
- Power *max @ free air* 850 [W]
- Speed *@ free air* 850 [rpm]
- Insulation Class H
- Protection Class IP65
- Power Factor (cos φ) 0.95
- Capacitor 25 [μF] 400 [V]
- Net Weight 24 [kg]
- Starting Torque 3.5 [nm]
- Starting Current *max* 7 [A]
- Air Temperature *max* 60 [°C]

Voltage [ V ]	Air Volume [ m³/h ] @ ρ=1.2 kg/m³					
	Free Air	Total Pressure ΔPt [Pa]				
		100	250	400	500	600
80	1730	1220				
100	2270	2080	1200			
125	2850	2840	2200	870		
150	3440		3010	1880	530	
170	3980		3680	2550	1060	120
190	4560		4520	3480	2030	390
220	5270			4780	3650	660

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.

Wheel Diameter = 333 mm = 13 1/8 "  
 50 Blades , 20 mm = 4/5 " Chord Width  
 Tip Speed = rpm \* 0.017 [m/s]  
 = rpm \* 3.45 [FPM]

Outlet Area = 0.063[m²] = 0.67[SQ.FT.]

Voltage [V]	Sound Pressure Level dB(A)						
	80	100	125	150	170	190	220
Inlet	51	55	61	64	67	70	72
Outlet	53	57	63	65	68	72	74

Measured in distance of 3m , @ free air

