D646 / E65-6 (13-15)

Double Inlet Centerifugal Fan

4100 CFM **220V 1N~ 50 Hz**

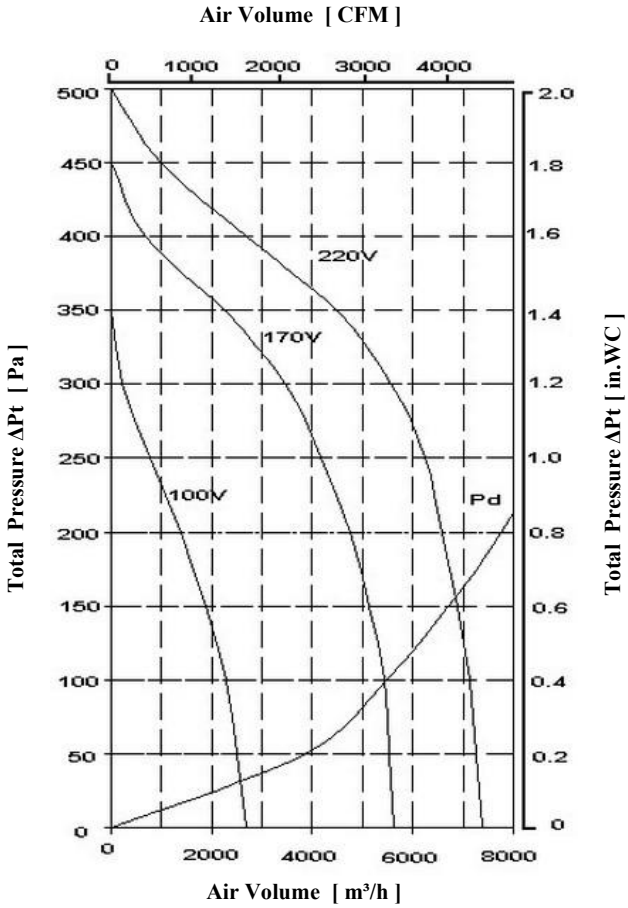

Diagram is based on standard air ρ=1.2 kg/m³.
Pd is system curve for dynamical pressure part related to Fan Outlet Area (Curve for free blowing fan). *Total Pressure* (the sum of the dynamic and static pressures) is shown in relation to the *Air Volume*, Dynamic pressure is shown below system line Pd and Static Pressure is shown above that line.

- Voltage Range 100 ~ 220 [V]
- Frequency 50 [Hz]
- Current *max @ free air* 5.5 [A]
- Power *max @ free air* 1150 [W]
- Fan speed *@ free air* 650 [rpm]
- Insulation Class H
- Protection Class IP65
- Power Factor (cos φ) 0.95
- Capacitor 30 [µF] 400 [V]
- Net Weight 34 [kg]
- Starting Torque 4 [nm]
- Starting Current *max* 7 [A]
- Air Temperature *max* 60 [ºC]

Voltage [V]	Air Volume [m³/h] @ ρ=1.2 kg/m³						
	Free Air	Total Pressure ΔPt [Pa]					
		100	*200*	*300*	*350*	*400*	*450*
100	2540	2295	1375	220			
170	5420	5430	4770	3455	2240	685	
220	6855		6590	5575	4465	2695	990

Wheel Diameter = 330 mm = 13 1/8 in
40 Blades , 25 mm = 1 " Chord Width
Tip Speed = rpm * 0.017 [m/s]
= rpm * 3.4 [FPM]
Outlet Area = 0.118 [m²] = 1.26 [SQ.FT.]

Voltage [V]	Sound Pressure Level in dB(A)		
	100	***170***	***220***
Inlet	56	67	71
Outlet	57	68	72

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