

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 94390 Series/Test: / Test Date: December 28, 1994 File Name: **Fan**Make: RaydotModel #: PMC-2465Serial #: -Manufacturer: RaydotBlade Size: 24"Orifice Dia.: 24.5"**Blade**Number: 5Shape: propellerMaterial: plasticPitch: 45Clearance: .3"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 10 per rowNumber Rows: 2Door Length: 13.8"Location: intake**Other Attachments**discharge cone 22.7" deep, 30" o.d.**Motor**Make: MagnetekModel #: 8-181980-01Serial #: -H.P.: 1/2Amps: 1.6Volts: 230RPM: 1100S.F.: 1.0Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 28.5"x28.5"Discharge Area: 24.5" dia.Depth: 18" top
15" bottom**Guards**Description: plastic coated
wireSpacing: 1.5" concentricLocation: exhaust

TEST RESULTS

RAYDOT PMC-2465

Test: 94390	Static Pressure <u>in. water</u>	Speed <u>rpm</u>	Airflow <u>cfm</u>	Efficiency <u>cfm/Watt</u>
	0.00	1035	6490	17.6
Fan description:	0.05	1023	6060	15.8
24" direct drive, 1/2 hp Magnetek 8-181980	0.10	1017	5630	14.5
motor, plastic housing, plastic shutter,	0.15	1013	5140	13.1
guard and discharge cone	0.20	1018	4410	11.4
	0.25	1024	2500	6.7
	0.30	990	1750	4.3
