

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 94388 Series/Test: / Test Date: December 28, 1994 File Name: **Fan**Make: RaydotModel #: PMC-2463 ASerial #: -Manufacturer: RaydotBlade Size: 24"Orifice Dia.: 24.5"**Blade**Number: 4Shape: propellerMaterial: aluminumPitch: -Clearance: .3"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 6Number Rows: 1Door Length: 25.8"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-2463A

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94388	0.00	1073	6240	19.4
Fan description:	0.05	1062	5860	17.5
24" direct drive, 1/2 hp Magnetek 8-181980	0.10	1055	5460	15.8
motor, plastic housing, aluminum shutter,	0.15	1047	5060	14.3
guard and discharge cone	0.20	1043	4550	12.6
	0.25	1049	3780	10.7
	0.30	1050	2150	6.1
