

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 95319 Series/Test: / Test Date: November 15, 1995 File Name: **Fan**Make: RaydotModel #: PMC-1219Serial #: -Manufacturer: RaydotBlade Size: 12" dia.Orifice Dia.: 12.2"**Blade**Number: 6Shape: propellerMaterial: PlasticPitch: 45Clearance: 0.1"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 5Number Rows: 1Door Length: 16.8"Location: intake**Other Attachments**Discharge cone 16" deep, 16.6" o.d.**Motor**Make: MagnetekModel #: HF2F028NSerial #: -H.P.: 1/4Amps: 1.5Volts: 230RPM: 1625S.F.: -Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 15.8"x15.8"Discharge Area: 12.2" dia.Depth: 18" top
16" bottom**Guards**Description: wireSpacing: 1.3" concentricLocation: exhaust

TEST RESULTS

RAYDOT PMC-1219

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 95319	0.00	1721	1933	10.2
Fan description:	0.05	1719	1855	9.7
12" direct drive, 1/4 hp Magnetek HF2F028N	0.10	1716	1779	9.1
motor, plastic housing, plastic shutter, guard	0.15	1714	1691	8.6
and discharge cone	0.20	1711	1588	8.0
	0.25	1710	1452	7.2
	0.30	1719	521	2.8
