

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 91107 Series/Test: / Test Date: July 9, 1991 File Name: **Fan**Make: RaydotModel #: FW1628Serial #: naManufacturer: RaydotBlade Size: 16"Orifice Dia.: 16.4"**Blade**Number: 4Shape: propellerMaterial: plasticPitch: 40 deg.Clearance: .2"Hub Diameter: 5.3"**Shutter**Material: plasticNumber Doors: 6Number Rows: 1Door Length: 17"Location: intake**Other Attachments****Motor**Make: MagnetekModel #: 53983ESerial #: naH.P.: 1/4Amps: 3.2/1.6Volts: 115/230RPM: 1800S.F.: 1.0Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: na**Housing**Material: fiberglassIntake Area: 17.9"x18"Discharge Area: 16.1"Depth: 25" top
20" bottom**Guards**Description: plastic coated
wireSpacing: 1.5" concentricLocation: exhaust

TEST RESULTS

RAYDOT FW-1628

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 91107	0.00	1692	3020	8.8
Fan description:	0.05	1691	2910	8.4
16" direct drive, 1/4 hp Magnetek 53983E	0.10	1689	2790	8.0
motor, fiberglass housing, plastic shutter	0.15	1689	2660	7.7
and guard	0.20	1690	2500	7.3
	0.25	1695	2260	6.8
