

**Bioenvironmental and Structural Systems Lab
Fan Description Form**Project Number: 91103 Series/Test: / Test Date: July 9, 1991 File Name: **Fan**Make: RaydotModel #: FW1216Serial #: naManufacturer: RaydotBlade Size: 12"Orifice Dia.: 12.4"**Blade**Number: 6Shape: propellerMaterial: plasticPitch: 45 deg.Clearance: .2"Hub Diameter: 3.8"**Shutter**Material: plasticNumber Doors: 5Number Rows: 1Door Length: 14.1"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: 15.3"x15.3"Discharge Area: 12" dia.Depth: 20.8" top
20" bottom**Guards**Description: plastic coated
wireSpacing: 1.5" concentricLocation: exhaust

TEST RESULTS

RAYDOT FW-1216

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 91103	0.00	1742	1682	7.3
Fan description:	0.05	1741	1608	6.9
12" direct drive, 1/4 hp Magnetek 53983E	0.10	1741	1517	6.4
motor, fiberglass housing, plastic shutter	0.15	1742	1393	6.0
and guard				
