

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 91099 Series/Test: / Test Date: July 8, 1991 File Name: **Fan**Make: RaydotModel #: FW0805Serial #: naManufacturer: RaydotBlade Size: 7.6"Orifice Dia.: 7.9"**Blade**Number: 4Shape: propellerMaterial: stainless steelPitch: naClearance: .2"Hub Diameter: na**Shutter**Material: plasticNumber Doors: 3Number Rows: 1Door Length: 7.9"Location: intake**Other Attachments**

MotorMake: EmersonModel #: K37HXBBF-416Serial #: naH.P.: 1/15Amps: .95Volts: 230RPM: 3400S.F.: 1Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: na**Housing**Material: fiberglassIntake Area: 9" x 9"Discharge Area: 7.9"Depth: 16.3" bottom
20.8" top**Guards**Description: plastic coated
wireSpacing: 1" concentricLocation: exhaust

TEST RESULTS

RAYDOT FW-0805

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 91099	0.00	3512	574	7.2
Fan description:	0.05	3504	538	6.4
8" direct drive, 1/15 hp Emerson K37HXXBBF-416	0.10	3504	521	5.9
motor, fiberglass housing, plastic shutter	0.15	3499	501	5.7
and guard	0.20	3497	473	5.4
	0.25	3495	415	4.6
	0.30	3494	282	3.1
