

Bioenvironmental and Structural Systems Lab
Fan Description Form

Project Number: 93347 Series/Test: / Test Date: October 6, 1993 File Name: **Fan**Make: Triangle Eng.Model #: SLW4815Serial #: -Manufacturer: Triangle Eng.Blade Size: 48"Orifice Dia.: 49.1"**Blade**Number: 4Shape: propellerMaterial: galv. steelPitch: -Clearance: .5"Hub Diameter: -**Shutter**Material: AluminumNumber Doors: 17Number Rows: 1Door Length: 51.3"Location: intake**Other Attachments**idler pulley belt tensioner**Motor**Make: MagnetekModel #: C782Serial #: -H.P.: 1.0Amps: 4.3/8.6Volts: 230/115RPM: 1725S.F.: 1.4Drive Pulley Dia.: 3.2" o.d.Axle Pulley Dia.: 12" o.d.Center Spacing: -**Housing**Material: galv. steelIntake Area: Discharge Area: 50" x 50"Depth: 38.8" top
26.5" bottom**Guards**Description: welded wireSpacing: 1" x 2"Location: exhaust

TEST RESULTS

TRIANGLE SLW 4815

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93347	0.00	461	18500	20.6
Fan description:	0.05	460	17100	18.7
48" belt drive, 1 hp Magnetek C782	0.10	460	15000	16.3
motor, galvanized steel slant housing,	0.15	460	11500	12.3
aluminum shutter and guard	0.20	458	6800	6.9
	0.25	457	4000	3.8