

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 93346 Series/Test: / Test Date: October 5, 1993 File Name: **Fan**Make: Triangle Eng.Model #: PF4815D-galv.Serial #: -Manufacturer: Triangle Eng.Blade Size: 48"Orifice Dia.: 49.1"**Blade**Number: 3Shape: propellerMaterial: aluminumPitch: -Clearance: .5"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 17Number Rows: 1Door Length: 51.3"Location: exhaust**Other Attachments****Motor**Make: MagnetekModel #: 8-181905-01Serial #: -H.P.: 1.0Amps: 5.1Volts: 230RPM: 850S.F.: 1.0Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: galv. steelIntake Area: 49.1"x49.1"Discharge Area: 49.1"x49.1"Depth: 16"**Guards**Description: welded wireSpacing: 1" x 2"Location: intake&exhaust

TEST RESULTS

TRIANGLE PFG 4815-D

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93346	0.00	847	16900	20.3
Fan description:	0.05	841	15500	17.7
48" direct drive, 1 hp Magnetek 8-181905-01	0.10	835	14100	15.2
motor, galvanized steel housing,	0.15	826	12000	12.1
aluminum shutter and guard	0.20	811	9600	8.8
	0.25	783	7300	5.9