

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 93342 Series/Test: / Test Date: October 5, 1993 File Name: **Fan**Make: Triangle Eng.Model #: PF4815-galv.Serial #: -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: exhaust**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: 49.1"x49.1"Discharge Area: 49.1"x49.1"Depth: 16"**Guards**Description: welded wireSpacing: 1" x 2"Location: intake

TEST RESULTS

TRIANGLE PFG 4815

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93342	0.00	460	18200	19.5
Fan description:	0.05	459	16500	17.5
48" belt drive, 1 hp Magnetek C782	0.10	459	14200	14.9
motor, galvanized steel housing,	0.15	460	8600	9.3
aluminum shutter and guard	0.20	459	6200	6.3
	0.25	458	4300	4.2