

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 93338 Series/Test: / Test Date: October 5, 1993 File Name: **Fan**Make: Triangle Eng.Model #: PF48156Serial #: -Manufacturer: Triangle Eng.Blade Size: 48"Orifice Dia.: 49.1"**Blade**Number: 6Shape: 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: woodIntake Area: 50"x50"Discharge Area: 50"x50"Depth: 16"**Guards**Description: welded wireSpacing: 1" x 2"Location: intake

TEST RESULTS

TRIANGLE PF 48156

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93338	0.00	458	19300	18.4
Fan description:	0.05	457	18000	16.6
48" belt drive, 1 hp Magnetek C782	0.10	456	16700	14.7
motor, wood housing, aluminum shutter	0.15	456	14900	12.9
and guard	0.20	455	9600	8.5
	0.25	455	7800	6.3