

Bioenvironmental and Structural Systems Lab

Fan Description Form

Project Number: 93322 Series/Test: /

Test Date: October 4, 1993 File Name: _____

Fan

Make: Triangle Eng.

Model #: PF3613D

Serial #: -

Manufacturer: Triangle Eng.

Blade Size: 36"

Orifice Dia.: 37"

Blade

Number: 3

Shape: propeller

Material: aluminum

Pitch: -

Clearance: .5"

Hub Diameter: -

Shutter

Material: Aluminum

Number Doors: 13

Number Rows: 1

Door Length: 39.3"

Location: exhaust

Other Attachments

Motor

Make: Magnetek

Model #: HF4W010N

Serial #: -

H.P.: 1/2

Amps: 3.2

Volts: 230

RPM: 850

S.F.: -

Drive Pulley Dia.: direct

Axle Pulley Dia.: drive

Center Spacing: -

Housing

Material: wood

Intake Area: 38" x 38"

Discharge Area: 38" x 38"

Depth: 16"

Guards

Description: welded wire

Spacing: 1" x 2"

Location: intake

TEST RESULTS

TRIANGLE PF3613D

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93322	0.00	857	9790	17.9
Fan description:	0.05	854	9050	15.8
36" direct drive, 1/2 hp Magnetek HF4W010N	0.10	850	8210	13.9
motor, wood housing, aluminum shutter	0.15	845	7190	11.6
and guard	0.20	843	5180	8.3
	0.25	835	4160	6.2
