

Bioenvironmental and Structural Systems Lab

Fan Description Form

Project Number: 96221 Series/Test: /

Test Date: September 4, 1996 File Name: _____

Fan

Make: Schaefer

Model #: PFM1200-1

Serial #: -

Manufacturer: Schaefer

Blade Size: 12.8"

Orifice Dia.: 13"

Blade

Number: 6

Shape: propeller

Material: plastic

Pitch: -

Clearance: 0.1"

Hub Diameter: 13"

Shutter

Material: plastic

Number Doors: 5

Number Rows: 1

Door Length: 13.6"

Location: intake

Other Attachments

Motor

Make: Magnetek

Model #: HF2F025

Serial #: -

H.P.: 1/6

Amps: 2.3/1.2

Volts: 115/230

RPM: 1710

S.F.: 1.00

Drive Pulley Dia.: direct

Axle Pulley Dia.: drive

Center Spacing: -

Housing

Material: Plastic

Intake Area: 14.8"x14.8"

Discharge Area: 12.8"dia.

Depth: $\frac{20.8'' \text{ top}}{16.3'' \text{ bottom}}$

Guards

Description: wire

Spacing: 1.5" concentric

Location: exhaust

TEST RESULTS

SCHAEFER PFM1200-1

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96221	0.00	1678	1610	7.7
Fan description:	0.05	1677	1538	7.3
12" direct drive, 1/6 hp Magnetek HF2F025	0.10	1677	1448	6.9
motor, plastic housing,	0.15	1677	1329	6.3
plastic shutter and guard	0.20	1695	707	3.7
	0.25	1690	627	3.2
	0.30	1683	506	2.5
