

Bioenvironmental and Structural Systems Lab

Fan Description Form

Project Number: 96228 Series/Test: /

Test Date: September 24, 1996 File Name: _____

Fan

Make: Hired Hand

Model #: 24" FF 6603-9501

Serial #: -

Manufacturer: Hired Hand

Blade Size: 24.3"

Orifice Dia.: 24.8"

Blade

Number: 3

Shape: propeller

Material: aluminum

Pitch:

Clearance: 0.2"

Hub Diameter: -

Shutter

Material: aluminum

Number Doors: 6

Number Rows: 1

Door Length: 25.8"

Location: intake

Other Attachments

Motor

Make: Magnetek

Model #: HF3L

Sample #: S9209E-2

H.P.: 1/3

Amps: 5.4/2.7

Volts: 115/230

RPM: 1075

S.F.: -

Drive Pulley Dia.: direct

Axle Pulley Dia.: drive

Center Spacing: -

Housing

Material: ABS

Intake Area: 28" x 28"

Discharge Area: 24.3"

Depth: 20"

Guards

Description: wire

Spacing: 1.5" concentric

Location: exhaust

TEST RESULTS

HIRED HAND 24"FF 6603-9501

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96228	0.00	1113	5740	14.5
Fan description:	0.05	1110	5490	13.3
24" direct drive, 1/3 hp Magnetek HF3L	0.10	1106	5180	12.3
motor, plastic housing, aluminum shutter	0.15	1103	4900	11.6
# 6611-5005 and guard	0.20	1099	4530	10.4
	0.25	1096	4030	9.1
	0.30	1096	2660	6.0
