

Bioenvironmental and Structural Systems Lab

Fan Description Form

Project Number: 96229 Series/Test: /

Test Date: September 24, 1996 File Name: _____

Fan

Make: Hired Hand

Model #: 24 FF 6603-9531

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: Marathon

Model #: 2WC48A11T2023A P

Serial #: -

H.P.: 1/2

Amps: 6.4/3.2

Volts: 115/230

RPM: 1075

S.F.: 1.0

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 6603-9531

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96229	0.00	1119	6290	11.8
Fan description:	0.05	1116	6010	11.0
24" direct drive, ½ hp Marathon	0.10	1113	5730	10.4
2WC48A11T2023AP motor, plastic housing,	0.15	1109	5430	9.5
aluminum shutter # 6611-5005 and guard	0.20	1108	5060	8.8
	0.25	1105	4630	7.9
	0.30	1108	3020	5.4
