

Bioenvironmental and Structural Systems Lab

Fan Description Form

Project Number: 96166 Series/Test: /

Test Date: June 26, 1996 File Name:

Fan

Make: Chore-Time

Model #: ~~38953-4821~~ 38948-4821

Serial #: -

Manufacturer: Chore-Time

Blade Size: 48"

Orifice Dia.: 48.5"

Blade

Number: 3

Shape: propeller

Material: cast aluminum

Pitch: -

Clearance: 0.3"

Hub Diameter: -

Shutter Acme

Material: aluminum

Number Doors: 13 per row

Number Rows: 2

Door Length: 26.3"

Location: intake

Other Attachments

Motor

Make: Magnetek

Model #: 8-182505

Serial #: BM8-122

H.P.: 1

Amps: 4.8/9.6

Volts: 230/115

RPM: 1725

S.F.: 1.4

Drive Pulley Dia.: 3.5"o.d.

Axle Pulley Dia.: 10.3"o.d.

Center Spacing: -

Housing

Material: fiberglass

Intake Area: 52" x 51"

Discharge Area: 48.5" dia.

Depth: 24"

Guards

Description: wire

Spacing: 2" concentric

Location: exhaust

TEST RESULTS

CHORE-TIME 38953-4821	38948-4821				
Test: 96166		Static Pressure	Speed	Airflow	Efficiency
		<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
		0.00	578	22100	18.7
Fan description:		0.05	577	20900	17.2
48" belt drive, 1 hp Magnetek 8-182505		0.10	576	19600	15.9
motor, fiberglass housing, aluminum shutter		0.15	576	18100	14.5
and guard		0.20	576	16300	13.1
		0.25	576	14600	11.8
		0.30	577	10600	8.9
