

Bioenvironmental and Structural Systems Lab

Fan Description Form

Project Number: 96167 Series/Test: /

Test Date: June 26, 1996 File Name:

Fan

Make: Chore-Time

Model #: ~~38953-4822~~ 38948-4822

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 CT Louver

Material: plastic

Number Doors: 15 per row

Number Rows: 2

Door Length: 26.1"

Location: intake

Other Attachments

Motor

Make: Magnetek

Model #: 8-182505

Serial #: BM8-122

H.P.: 1

Amps: 4.3/8.6

Volts: 230/115

RPM: 1725

S.F.: 1.40

Drive Pulley Dia.: 3.5"o.d.

Axle Pulley Dia.: 10.3"o.d.

Center Spacing: -

Housing

Material: fiberglass

Intake Area: 52" x 52"

Discharge Area: 48.5" dia.

Depth: 24"

Guards

Description: wire

Spacing: 2" concentric

Location: exhaust

TEST RESULTS

CHORE-TIME ~~38953-4822~~ 38948-4822

Test: 96167	Static Pressure <u>in. water</u>	Speed <u>rpm</u>	Airflow <u>cfm</u>	Efficiency <u>cfm/Watt</u>
	0.00	578	22100	18.6
Fan description:	0.05	577	20900	17.1
48" belt drive, 1 hp Magnetek 8-182505	0.10	576	19400	15.6
motor, fiberglass housing, plastic shutter	0.15	576	17900	14.3
and guard	0.20	575	16000	12.8
	0.25	575	13600	11.0
	0.30	577	8100	7.0
