

Bioenvironmental and Structural Systems Lab

Fan Description Form

Project Number: 96326 Series/Test: /

Test Date: November 19, 1996 File Name: _____

Fan

Make: Chore-Time

Model #: 38789-3622

Serial #: -

Manufacturer: Chore-Time

Blade Size: 36"

Orifice Dia.: 36.5"

Blade

Number: 3

Shape: propeller

Material: galvanized steel

Pitch: -

Clearance: 0.3"

Hub Diameter: -

Shutter

Material: plastic

Number Doors: 12 per row

Number Rows: 2

Door Length: 20.1"

Location: intake

Other Attachments

Motor

Make: GE

Model #: 5KCP49U9806S

Serial #: -

H.P.: 1/2

Amps: 3.7-3.6

Volts: 230

RPM: 850

S.F.: 1.00

Drive Pulley Dia.: direct

Axle Pulley Dia.: drive

Center Spacing: -

Housing

Material: galv. steel

Intake Area: 42.5"x42.5"

Discharge Area: 40.3"x40.3"

Depth: $\frac{25.3'' \text{ top}}{23.8'' \text{ bottom}}$

Guards

Description: wire

Spacing: 1" x 2"

Location: exhaust

TEST RESULTS

CHORE-TIME 38789-3622

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96326	0.00	839	10950	16.7
Fan description:	0.05	834	10300	15.3
36" direct drive, ½ hp 5KCP49UN9806S	0.10	831	9590	13.8
motor, slant steel housing, plastic,	0.15	827	8810	12.3
and guard	0.20	825	7990	11.0
	0.25	819	7010	9.3
	0.30	805	3970	4.9
