

Bioenvironmental and Structural Systems Lab

Fan Description Form

Project Number: 96160 Series/Test: /

Test Date: June 26, 1996 File Name:

Fan

Make: Chore-Time

Model #: ~~38952-3622~~ 38947-3622

Serial #: -

Manufacturer: Chore-Time

Blade Size: 36"

Orifice Dia.: 36.5"

Blade 36-3-18

Number: 3

Shape: propeller

Material: cast aluminum

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 #: 5KCP49UN9806AS

Serial #: PLL-CT#28936

H.P.: 1/2

Amps: 3.70/3.80

Volts: 208/230

RPM: 850

S.F.: 1.00

Drive Pulley Dia.: direct

Axle Pulley Dia.: drive

Center Spacing: -

Housing

Material: fiberglass

Intake Area: 42" x 42"

Discharge Area: 36.5" dia.

Depth: 18"

Guards

Description: wire

Spacing: 2" concentric

Location: exhaust

TEST RESULTS

CHORE-TIME ~~38952-3622~~ 38947-3622

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96160	0.00	848	10600	17.8
Fan description:	0.05	846	9880	16.1
36" direct drive, ½ hp GE 5KCP49UN9806AS	0.10	844	9150	14.7
motor, fiberglass housing, plastic shutter	0.15	843	8210	13.0
and guard	0.20	843	7020	11.2
	0.25	844	5580	8.9
	0.30	846	3650	6.0
