

Bioenvironmental and Structural Systems Lab
 Fan Description Form

Project Number: 96325 Series/Test: /

Test Date: November 19, 1996 File Name:

Fan

Make: Chore-Time
 Model #: 38789-3621
 Serial #: -
 Manufacturer: Chore-Time
 Blade Size: 36"
 Orifice Dia.: 3.5"

Motor

Make: GE
 Model #: 5KCP49U9806S
 Serial #: -
 H.P.: 1/2
 Amps: 3.7-3.6
 Volts: 230

Blade

Number: 3
 Shape: propeller
 Material: galvanized steel
 Pitch: -
 Clearance: 0.3"
 Hub Diameter: -

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: 25.3" top
 23.8" bottom

Shutter

Material: aluminum
 Number Doors: 9 per row
 Number Rows: 2
 Door Length: 19.6"
 Location: intake

Guards

Description: wire
 Spacing: 1" x 2"
 Location: exhaust

Other Attachments

TEST RESULTS

CHORE-TIME 38789-3621

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96325	0.00	840	10940	16.5
Fan description:	0.05	837	10230	15.0
36" direct drive, ½ hp 5KCP49UN9806S	0.10	833	9480	13.6
motor, slant steel housing, aluminum shutter,	0.15	830	8570	11.9
and guard	0.20	826	7640	10.3
	0.25	774	6560	8.5
	0.30	807	5000	6.1
