

**Bioenvironmental and Structural Systems Lab
Fan Description Form**

Project Number: 96338 Series/Test: /

Test Date: November 20, 1996 File Name:

Fan

Make: Chore-Time
 Model #: 38790-3622
 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 #: 5KCP49UN9806S
 Serial #:
 H.P.: 1/2
 Amps: 3.70-3.60
 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: 33.8" top
 30.5"bottom

Guards

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

TEST RESULTS

CHORE-TIME 38790-3622

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96338	0.00	841	11030	17.0
Fan description:	0.05	838	10320	15.3
36" direct drive, ½ hp GE 5KCP49UN9806S	0.10	834	9590	13.8
motor, deep slant housing, plastic shutter,	0.15	830	8900	12.6
and guard	0.20	825	8040	11.0
	0.25	819	6890	9.1
	0.30	813	5200	6.5
