

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 94030 Series/Test: / Test Date: March 1, 1994 File Name: **Fan**Make: Chore TimeModel #: 27140-230Serial #: -Manufacturer: Chore TimeBlade Size: 36"Orifice Dia.: 36.8"**Blade**Number: 3Shape: propellerMaterial: galv. steelPitch: -Clearance: .4"Hub Diameter: -**Shutter**Material: AluminumNumber Doors: 9 per rowNumber Rows: 2Door Length: 19.6"Location: exhaust**Other Attachments****Motor**Make: G.E.Model #: 5KCP49QG9850BSSerial #: -H.P.: 1/2Amps: 3.7-3.6Volts: 208-230RPM: 850S.F.: 1.00Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: woodIntake Area: 42" x 42"Discharge Area: 42" x 42"Depth: 9"**Guards**Description: welded wireSpacing: 1" x 2"Location: intake

TEST RESULTS

CHORE-TIME 27140-230

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94030	0.00	849	10040	16.5
Fan description:	0.05	844	9330	14.6
36" direct drive, 1/2 hp GE 5KCP49QG9850BS	0.10	840	8490	12.8
motor, wood housing, aluminum shutter	0.15	834	7560	10.9
and guard	0.20	830	6340	8.9
	0.25	827	5010	7.0
	0.30	818	4210	5.5
