

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96310 Series/Test: / Test Date: November 18, 1996 File Name: **Fan**Make: Chore-TimeModel #: 38785-4821Serial #: -Manufacturer: Chore-TimeBlade Size: 48"Orifice Dia.: 48.5"**Blade**Number: 2Shape: propellerMaterial: galvanized steelPitch: -Clearance: 0.3"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 13 per rowNumber Rows: 2Door Length: 26.3"Location: intake**Other Attachments****Motor**Make: EmersonModel #: K63ZZEDDSerial #: H.P.: 1Amps: 5.2Volts: 230RPM: 850S.F.: 1.0Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: galv. steelIntake Area: Discharge Area: 52.4"x52.4"Depth: 26.8" top
24.8" bottom**Guards**Description: welded wireSpacing: 1" x 2"Location: exhaust

TEST RESULTS

CHORE-TIME 38785-4821

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96310	0.00	852	18100	20.8
Fan description:	0.05	848	16900	18.6
48" direct drive, 1 hp Emerson	0.10	843	15600	16.3
K63ZZEDD motor, steel slant housing,	0.15	839	14300	14.5
aluminum shutter and guard	0.20	834	12500	12.1
	0.25	829	10900	10.2
	0.30	798	5900	4.6
