

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96314 Series/Test: / Test Date: November 19, 1996 File Name: **Fan**Make: Chore-TimeModel #: 38439-4821Serial #: -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: 28"**Guards**Description: welded wireSpacing: 1" x 2"Location: exhaust

TEST RESULTS

CHORE-TIME 38439-4821

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96314	0.00	851	18000	20.6
Fan description:	0.05	847	16800	18.4
48" direct drive, 1 hp Emerson K63ZZEDD	0.10	843	15600	16.5
motor, steel box housing, aluminum shutter	0.15	842	14100	14.3
and guard	0.20	833	12300	12.0
	0.25	826	10600	10.0
	0.30	810	7000	5.8
