

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96318 Series/Test: / Test Date: November 19, 1996 File Name: **Fan**Make: Chore-TimeModel #: 38450-4822Serial #: -Manufacturer: Chore-TimeBlade Size: 48"Orifice Dia.: 48.5"**Blade**Number: 2Shape: propellerMaterial: galvanized steelPitch: -Clearance: 0.3"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 15 per rowNumber Rows: 2Door Length: 26.2"Location: intake**Other Attachments**Discharge cone 24.4" deep, 56.5" o.d.**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: 48.5" o.d.Depth: 22"**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

CHORE-TIME 38450-4822

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96318	0.00	856	19400	23.6
Fan description:	0.05	851	17900	20.5
48" direct drive, 1 hp Emerson K63ZZEDD	0.10	845	16100	17.5
motor, steel housing, plastic shutter,	0.15	841	14700	15.2
guard and discharge cone	0.20	834	12600	12.3
	0.25	828	10700	10.1
	0.30	823	7900	7.1
