

**Bioenvironmental and Structural Systems Lab
Fan Description Form**Project Number: 96317 Series/Test: / Test Date: November 19, 1996 File Name: **Fan**Make: Chore-TimeModel #: 38450-4821Serial #: -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**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 38450-4821

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96317	0.00	860	19600	24.3
Fan description:	0.05	857	18600	22.1
48" direct drive, 1 hp Emerson K63ZZEDD	0.10	852	17200	19.2
motor, steel housing, aluminum shutter,	0.15	846	15500	16.5
guard and discharge cone	0.20	841	13400	13.4
	0.25	834	11400	10.8
	0.30	827	8700	7.9
