

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96163 Series/Test: / Test Date: June 26, 1996 File Name: **Fan**Make: Chore-TimeModel #: 38264-4821Serial #: -Manufacturer: Chore-TimeBlade Size: 48"Orifice Dia.: 48.5"**Blade**Number: 3Shape: propellerMaterial: cast aluminumPitch: -Clearance: 0.3"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 12 per rowNumber Rows: 2Door Length: 25.5"Location: intake**Other Attachments**Discharge cone 28" deep, 58" o.d.**Motor**Make: MagnetekModel #: 8-182505Serial #: BM8-122H.P.: 1Amps: 4.8/9.6Volts: 230/115RPM: 1725S.F.: 1.4Drive Pulley Dia.: 3.5"o.d.Axle Pulley Dia.: 10.3"o.d.Center Spacing: -**Housing**Material: fiberglassIntake Area: 52" x 51"Discharge Area: 48.5" dia.Depth: 24"**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

CHORE-TIME 38264-4821

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96163	0.00	580	25400	24.1
Fan description:	0.05	580	24000	21.5
48" belt drive, 1 hp Magnetek 8-182505	0.10	579	22400	19.3
motor, fiberglass housing, aluminum shutter,	0.15	576	20500	17.0
guard and discharge cone	0.20	577	18100	14.5
	0.25	576	15100	12.2
	0.30	578	10200	8.5
