

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96162 Series/Test: / Test Date: June 26, 1996 File Name: **Fan**Make: Chore-TimeModel #: 38264-4822Serial #: -Manufacturer: Chore-TimeBlade Size: 48"Orifice Dia.: 48.5"**Blade**Number: 3Shape: propellerMaterial: cast aluminumPitch: -Clearance: 0.3"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 15 per rowNumber Rows: 2Door Length: 26.1"Location: intake**Other Attachments**Discharge cone 28" deep, 58" o.d.**Motor**Make: MagnetekModel #: 8-182505Serial #: BM8-122H.P.: 1Amps: 4.3/8.6Volts: 230/115RPM: 1725S.F.: 1.40Drive Pulley Dia.: 3.5"o.d.Axle Pulley Dia.: 10.3"o.d.Center Spacing: -**Housing**Material: fiberglassIntake Area: Discharge Area: 48.5" dia.Depth: 24"**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

CHORE-TIME 38264-4822

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96162	0.00	582	25200	23.3
Fan description:	0.05	580	23800	21.0
48" belt drive, 1 hp Magnetek 8-182505	0.10	578	22200	18.9
motor, fiberglass housing, plastic shutter,	0.15	577	20400	16.9
guard and discharge cone	0.20	576	17600	14.3
	0.25	576	14600	11.8
	0.30	577	10700	8.8
