

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 94370 Series/Test: / Test Date: December 19, 1994 File Name: **Fan**Make: MCMModel #: 9S004838Serial #: -Manufacturer: Miller Ctrl.&Mfg.Blade Size: 48"Orifice Dia.: 48.5"**Blade**Number: 3Shape: propellerMaterial: galv. steelPitch: -Clearance: .3"Hub Diameter: -**Shutter**Material: pvcNumber Doors: 17 per rowNumber Rows: 3Door Length: 17.3"Location: intake**Other Attachments**Discharge cone 24.5" deep, 56.5" o.d.**Motor**Make: MagnetekModel #: 8-182505-01Serial #: -H.P.: 1.0Amps: 4.3/8.6Volts: 230/115RPM: 1725S.F.: 1.40Drive Pulley Dia.: 3.5"o.d.
IPC-265Axle Pulley Dia.: AK94Center Spacing: -**Housing**Material: fiberglassIntake Area: 55.5"x55.5"Discharge Area: 48.3" dia.Depth: 30" top
24.3" bottom**Guards**Description: welded wireSpacing: 2" x 4"Location: exhaust

TEST RESULTS

MILLER CONTROL & MFG. 9S004838

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94370	0.00	516	24300	23.0
Fan description:	0.05	514	23000	20.8
48" belt drive, 1 hp Magnetek 8-182505-01	0.10	513	21600	18.8
motor, fiberglass housing, plastic shutter,	0.15	512	20000	16.9
guard and discharge cone	0.20	511	17900	14.8
	0.25	511	14900	12.3
	0.30	512	8000	6.9
