

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 97339 Series/Test: / Test Date: December 12, 1997 File Name: **Fan**Make: MultifanModel #: X48-50 4e130-4Serial #: -Manufacturer: MultifanBlade Size: 50.8"Orifice Dia.: 51.2"**Blade**Number: 3Shape: propellerMaterial: plasticPitch: -Clearance: 0.2"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 17 per rowNumber Rows: 3Door Length: 18.2"Location: intake**Other Attachments**discharge cone 28" deep, 51.2" i.d., 68.3" o.d.**Motor**Make: MagnetekModel #: 8-182505-01Serial #: -H.P.: 1.0Amps: 4.3/8.6Volts: 230/115RPM: 1725S.F.: 1.40Drive Pulley Dia.: 4.0"o.d.Axle Pulley Dia.: 11.9"o.d.Center Spacing: -**Housing**Material: PlasticIntake Area: 58.3"x58.3"Discharge Area: 51.2" dia.Depth: 14.3"**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

MULTIFAN X48-50 4E130-4

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 97339	0.03	590	26800	22.7
Fan description:	0.05	589	25900	21.4
50" belt drive, 1 hp Magnetek 8-182506-01	0.10	587	23900	18.9
motor, plastic housing, plastic shutter,	0.15	585	21200	16.4
guard and discharge cone	0.20	584	18200	13.9
	0.25	586	14500	11.3
	0.30	590	8600	7.4