

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96297 Series/Test: / Test Date: October 29, 1996 File Name: **Fan**Make: MultifanModel #: 4E125Q-S3CSerial #: -Manufacturer: MultifanBlade Size: 49.3"Orifice Dia.: 49.6"**Blade**Number: 4Shape: propellerMaterial: aluminumPitch: -Clearance: 0.2"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 17 per rowNumber Rows: 3Door Length: 18.1"Location: intake**Other Attachments**discharge cone 26" deep, 60" o.d.**Motor**Make: MagnetekModel #: 8-186106-01Serial #: -H.P.: 1.0Amps: 4.3/6.8Volts: 230/115RPM: 1725S.F.: 1.40Drive Pulley Dia.: 3.9"o.d.Axle Pulley Dia.: 11.8"o.d.Center Spacing: -**Housing**Material: plasticIntake Area: Discharge Area: 49.6" dia.Depth: 28" top
15" bottom**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

MULTIFAN 4E125Q-S3C

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96297	0.00	559	22200	24.2
Fan description:	0.05	557	20500	21.1
48" belt drive, 1 hp Magnetek 8-186106-01	0.10	556	18900	18.7
motor, plastic slant housing, plastic shutter,	0.15	555	15900	15.1
guard and discharge cone	0.20	553	13500	12.7
	0.25	553	11000	10.2
	0.30	553	6600	6.2
