

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 92086 Series/Test: / Test Date: 3/12/92 File Name: **Fan**Make: AerotechModel #: AT481Z1Serial #: Manufacturer: AerotechBlade Size: 47.9 in.Orifice Dia.: 48.3 in.**Blade**Number: 3Shape: propellerMaterial: aluminumPitch: 26@ 2/3 radClearance: .2 in.Hub Diameter: 4 in.**Shutter**Material: aluminumNumber Doors: 12 per rowNumber Rows: 2Door Length: 25.8 in.Location: intake**Other Attachments**Discharge cone 24.5 inches deep, 59 inches o.d.**Motor**Make: MagnetekModel #: (part) 181416Serial #: H.P.: 1Amps: 4.3/8.6Volts: 230/115RPM: 1725S.F.: 1.3Drive Pulley Dia.: 3.5in ak34Axle Pulley Dia.: 10.3 in.Center Spacing: **Housing**Material: fiberglassIntake Area: 54in x 54inDischarge Area: 59 in. dia.Depth: 25 in.**Guards**Description: plast. coat. wireSpacing: 2 in.Location: exhaust

TEST RESULTS

AEROTECH AT481Z1CA

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 92086	0.00	577	25000	24.1
Fan description:	0.05	575	23500	21.7
48" belt drive, 1 hp Magnetek 181416	0.10	574	22000	19.6
motor, fiberglass housing, aluminum shutter,	0.15	573	20200	17.5
guard and discharge cone	0.20	571	17900	15.2
	0.25	572	14700	12.4
