

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 92094 Series/Test: / Test Date: 3/13/92 File Name: **Fan**Make: AerotechModel #: AT481ZB1CASerial #: Manufacturer: AerotechBlade Size: 47.5"Orifice Dia.: 48.3"**Blade**Number: 3Shape: propellerMaterial: galv. steelPitch: --Clearance: .4"Hub Diameter: --**Shutter**Material: aluminumNumber Doors: 12 per rowNumber Rows: 2Door Length: 25.5"Location: Inlet**Other Attachments**Discharge cone 24.5" deep, 59" 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"Center Spacing: **Housing**Material: steelIntake Area: 52.3"x51.3"Discharge Area: 48.3" dia.Depth: 18"**Guards**Description: plast. coat wireSpacing: 2"Location: exhaust

TEST RESULTS

AEROTECH AT481ZB1CA

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 92094	0.00	626	23900	25.4
Fan description:	0.05	624	22900	22.9
48" belt drive, 1 hp Magnetek 181416	0.10	622	21700	20.4
motor, fiberglass housing, aluminum shutter,	0.15	619	20400	18.1
guard and discharge cone	0.20	617	19100	15.9
	0.25	615	17300	13.7
	0.30	612	15500	11.7
