

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 92088 Series/Test: / Test Date: 3/12/92 File Name: **Fan**Make: AerotechModel #: AT481Z2Serial #: Manufacturer: AerotechBlade Size: 47.5"Orifice Dia.: 48.3"**Blade**Number: 3Shape: propellerMaterial: aluminumPitch: 26 degreesClearance: .4 inchesHub Diameter: .4 inches**Shutter**Material: aluminumNumber Doors: 12 per rowNumber Rows: 2Door Length: 25.5 inchesLocation: Inlet**Other Attachments****Motor**Make: MagnetekModel #: 8-177486Serial #: H.P.: 1.0-.29Amps: 5.3-3.0Volts: 230RPM: 1725-1140S.F.: 1Drive Pulley Dia.: 5in variab.Axle Pulley Dia.: 10.25in.Center Spacing: **Housing**Material: steelIntake Area: 52.3"x 51.3"Discharge Area: Depth: 18"**Guards**Description: plast. coat wireSpacing: Location: exhaustDischarge cone 24.5" deep, 59" o.d.; Motor wired for high speed, "C" prop.

TEST RESULTS

AEROTECH AT481Z2CA

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 92088	0.00	541	23300	24.4
Fan description:	0.05	539	21700	21.8
48" belt drive, 1 hp Magnetek 8-177486	0.10	537	20100	19.3
2-speed motor, fiberglass housing, aluminum	0.15	536	17900	16.7
shutter, guard and discharge cone	0.20	536	15000	13.8
	0.25	536	9900	9.4
* 2-speed motor - high speed performance				