

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 95094 Series/Test: / Test Date: March 30, 1995 File Name: **Fan**Make: AerotechModel #: AT481Z1Serial #: -Manufacturer: AerotechBlade Size: 47.8"Orifice Dia.: 48.4"**Blade GRAC**Number: 3Shape: propellerMaterial: aluminumPitch: -Clearance: .3"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 15 per rowNumber Rows: 2Door Length: 26.1"Location: intake**Other Attachments**Discharge cone 48.4" i.d., 58" o.d., 25.8" deep**Motor**Make: AerotechModel #: 8-181416Serial #: -H.P.: 1.0Amps: 4.3/8.6Volts: 230/115RPM: 1725S.F.: 1.30Drive Pulley Dia.: 3.4"o.d
AK34Axle Pulley Dia.: 10.3"o.d.
AK104Center Spacing: -**Housing**Material: fiberglassIntake Area: 54" x 54"Discharge Area: 48.4" dia.Depth: 24"**Guards**Description: Stainless steelSpacing: 2.3" concentricLocation: exhaust

TEST RESULTS

AEROTECH AT481Z1CP

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 95094	0.00	576	23800	22.3
Fan description:	0.05	574	22400	20.2
48" belt drive, 1 hp Aerotech 1-181416	0.10	573	20900	18.2
motor, fiberglass housing, plastic shutter,	0.15	573	19300	16.5
guard and discharge cone	0.20	572	17400	14.6
	0.25	572	14300	12.0
	0.30	576	8200	7.6
