

**Bioenvironmental and Structural Systems Lab
Fan Description Form**Project Number: 92093 Series/Test: / Test Date: 3/13/92 File Name: **Fan**Make: AerotechModel #: AT4815ZB1CASerial #: 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 #: C594 (cat)Serial #: H.P.: 1.5Amps: 17/8.5Volts: 115/230RPM: 1725S.F.: 1Drive Pulley Dia.: 5" variab.Axle Pulley Dia.: 10.25"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 AT4815ZB1CA

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 92093	0.00	676	25600	20.8
Fan description:	0.05	674	24600	18.9
48" belt drive, 1.5 hp Magnetek C594	0.10	673	23700	17.3
motor, fiberglass housing, aluminum shutter,	0.15	671	22600	15.7
guard and discharge cone	0.20	670	21400	14.2
	0.25	668	20100	12.8
	0.30	666	18700	11.3
