

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 92092 Series/Test: / Test Date: 3/13/92 File Name: **Fan**Make: AerotechModel #: AT4815ZCASerial #: Manufacturer: AerotechBlade Size: 47.5"Orifice Dia.: 48.3"**Blade**Number: 3Shape: propellerMaterial: aluminumPitch: 26 degreesClearance: .4"Hub Diameter: .4"**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 AT4815Z1CA

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 92092	0.00	636	27500	18.8
Fan description:	0.05	634	26100	17.2
48" belt drive, 1.5 hp Magnetek C594	0.10	633	24800	15.9
motor, fiberglass housing, aluminum shutter,	0.15	631	23300	14.5
guard and discharge cone	0.20	630	21600	13.2
	0.25	630	19400	11.6
	0.30	629	16200	9.8
