

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 93081 Series/Test: / Test Date: February 12, 1993 File Name: **Fan**Make: AerotechModel #: AT36ZB1CASerial #: Manufacturer: AerotechBlade Size: 36"Orifice Dia.: 36.5"**Blade**Number: 3Shape: propellerMaterial: painted steelPitch: -Clearance: .3"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 9 per rowNumber Rows: 2Door Length: 19.6"Location: intake**Other Attachments****Motor**Make: MagnetekModel #: 8-177550Serial #: H.P.: 1/2Amps: 3.3/6.6Volts: 230/115RPM: 850S.F.: 1Drive Pulley Dia.: DirectAxle Pulley Dia.: DriveCenter Spacing: -**Housing**Material: FiberglassIntake Area: 42" x 42"Discharge Area: 36.5" dia.Depth: 24"**Guards**Description: plastic coated
wireSpacing: 2" concentricLocation: exhaustDischarge cone 25" deep, 46.3" o.d., 36.5" i.d.

TEST RESULTS

AEROTECH AT36ZB1CA

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93081	0.00	864	11010	21.2
Fan description:	0.05	860	10470	19.1
36" direct drive, 1/2 hp Magnetek 8-177550	0.10	856	9920	17.3
motor, fiberglass housing, plastic shutter,	0.15	852	9230	15.5
guard and discharge cone	0.20	849	8560	13.7
	0.25	845	7810	12.1
