

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96151 Series/Test: / Test Date: June 21, 1996 File Name: **Fan**Make: AerotechModel #: AT36Z1Serial #: -Manufacturer: AerotechBlade Size: 35.9"Orifice Dia.: 36.5"**Blade Francis blade**Number: 3Shape: propellerMaterial: aluminumPitch: -Clearance: 0.3"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 9 per rowNumber Rows: 2Door Length: 19.6"Location: intake**Other Attachments**Discharge cone 25.3" deep, 46" o.d.**Motor**Make: AerotechPart #: 8-177550-03Serial #: -H.P.: 1/2Amps: 3.3/6.6Volts: 230/115RPM: 850S.F.: 1.00Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: fiberglassIntake Area: 42.3"x42.3"Discharge Area: 36.5" o.d.Depth: 24"**Guards**Description: plastic coated
wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

AEROTECH AT36Z1CA

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96151	0.00	849	12620	21.0
Fan description:	0.05	846	11870	18.7
36" direct drive, ½ hp Aerotech 8-177550-03	0.10	840	10920	16.6
motor, fiberglass housing, aluminum shutter,	0.15	836	9950	14.7
guard and discharge cone	0.20	831	8530	12.2
	0.25	832	6750	9.6
	0.30	834	4330	6.4
