

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 92071 Series/Test: / Test Date: 3/11/92 File Name: **Fan**Make: AerotechModel #: AT09ZSerial #: Manufacturer: AerotechBlade Size: 9 in.Orifice Dia.: 9.3 in.**Blade**Number: 6Shape: propellerMaterial: aluminumPitch: 34 degreesClearance: 0.1 in.Hub Diameter: 2.8 in.**Shutter**Material: plasticNumber Doors: 6Number Rows: 1Door Length: 10.4 in.Location: intake**Other Attachments**Discharge cone 11.3 inches o.d., 10.1 inches deep**Motor**Make: Franklin ElectricModel #: 1933010400Serial #: N/AH.P.: 1/6Amps: .9Volts: 230RPM: 3350S.F.: N/ADrive Pulley Dia.: DirectAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: Rovel plasticIntake Area: 12 in x 12 inDischarge Area: 11.3 in. dia.Depth: 11.5 in.**Guards**Description: plas. coat. wireSpacing: 0.8 in concentricLocation: exhaust

TEST RESULTS

AEROTECH AT09Z

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 92071	0.00	3209	1120	5.3
Fan description:	0.05	3197	1090	5.1
9" direct drive, 1/6 hp Franklin 193310400	0.10	3190	1050	4.9
motor, plastic housing, plastic shutter,	0.15	3183	1020	4.7
guard and discharge cone	0.20	3179	980	4.5
	0.25	3183	930	4.3
	0.30	3209	820	4.0
