

**Bioenvironmental and Structural Systems Lab
Fan Description Form**

Project Number: 91023 Series/Test: / Test Date: 3/06/91 File Name: **Fan**Make: AerotechModel #: AT16ZSerial #: Manufacturer: AerotechBlade Size: 16 in.Orifice Dia.: 16.5 in.**Blade**Number: 4Shape: PropellorMaterial: AluminumPitch: N/AClearance: .5 in.Hub Diameter: 3.9 in.**Shutter**Material: AluminumNumber Doors: 4Number Rows: 1Door Length: 19.8 in.Location: Intake**Other Attachments**Discharge cone: 16.5 dia. = 21 in. depth = 17.5 in.**Motor**Make: AerotechModel #: HF2G032KSerial #: RMA 0813AH.P.: .3Amps: 2.6/1.3Volts: 115/230RPM: 1625S.F.: 1.0Drive Pulley Dia.: DIRECTAxle Pulley Dia.: DRIVECenter Spacing: **Housing**Material: Rovel plasticIntake Area: 22.5 x 22.3Discharge Area: 16.5 in.Depth: 18 in.**Guards**Description: Plastic coated
wireSpacing: 1.5 in. concentricLocation: Exhaust

TEST RESULTS

AEROTECH AT16ZCA

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 91023	0.00	1680	3410	14.1
Fan description:	0.05	1673	3210	12.7
16" direct drive, 1/4 hp Aerotech HF2G032K	0.10	1669	2970	11.6
motor, plastic housing, aluminum shutter,	0.15	-	2750	10.6
guard and discharge cone	0.20	-	2460	9.5
	0.25	-	1300	5.5
