

**Bioenvironmental and Structural Systems Lab**  
**Fan Description Form**Project Number: 93236 Series/Test:     /    Test Date: 7/15/93 File Name:                     **Fan**Make: AerotechModel #: AT36Z1SSerial #: -Manufacturer: AerotechBlade Size: 35.8"Orifice Dia.: 36.3"**Blade**Number: 3Shape: propellerMaterial: aluminumPitch: -Clearance: .3"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 12 per rowNumber Rows: 2Door Length: 20.1"Location: intake**Other Attachments**Discharge cone, 25" deep, 46.3" o.d., 36.3" i.d.**Motor**Make: AerotechPart #: HF4U013NSerial #: -H.P.: 1/2Amps: 3.5/7.0Volts: 230/115RPM: 825S.F.: 1Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: fiberglassIntake Area: -Discharge Area: 36.3" dia.Depth: 24"**Guards**Description: plastic coated  
wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

AEROTECH AT36Z1SCP

|                                             | Static Pressure  | Speed      | Airflow    | Efficiency      |
|---------------------------------------------|------------------|------------|------------|-----------------|
|                                             | <u>in. water</u> | <u>rpm</u> | <u>cfm</u> | <u>cfm/Watt</u> |
| Test: 93236                                 | 0.00             | 848        | 11190      | 21.2            |
| Fan description:                            | 0.05             | 844        | 10400      | 19.1            |
| 36" direct drive, ½ hp Aerotech HF4U013N    | 0.10             | 841        | 9530       | 16.9            |
| motor, fiberglass housing, plastic shutter, | 0.15             | 839        | 8570       | 14.8            |
| guard and discharge cone                    | 0.20             | 836        | 7370       | 12.6            |
|                                             | 0.25             | 836        | 5270       | 9.1             |

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