

**Bioenvironmental and Structural Systems Lab**  
**Fan Description Form**Project Number: 93336 Series/Test:     /    Test Date: October 5, 1993 File Name:                     **Fan**Make: Triangle Eng.Model #: PF4815Serial #: -Manufacturer: Triangle Eng.Blade Size: 48"Orifice Dia.: 49.1"**Blade**Number: 4Shape: propellerMaterial: galv. steelPitch: -Clearance: .5"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 17Number Rows: 1Door Length: 51.3"Location: exhaust**Other Attachments**idler pulley belt tensioner**Motor**Make: MagnetekModel #: C782Serial #: -H.P.: 1.0Amps: 4.3/8.6Volts: 230/115RPM: 1725S.F.: 1.4Drive Pulley Dia.: 3.2" o.d.Axle Pulley Dia.: 12" o.d.Center Spacing: -**Housing**Material: woodIntake Area: 50"x50"Discharge Area: 50"x50"Depth: 16"**Guards**Description: welded wireSpacing: 1" x 2"Location: intake

TEST RESULTS

TRIANGLE PF 4815

|                                       | Static Pressure  | Speed      | Airflow    | Efficiency      |
|---------------------------------------|------------------|------------|------------|-----------------|
|                                       | <u>in. water</u> | <u>rpm</u> | <u>cfm</u> | <u>cfm/Watt</u> |
| Test: 93336                           | 0.00             | 459        | 19000      | 18.8            |
| Fan description:                      | 0.05             | 458        | 17300      | 16.8            |
| 48" belt drive, 1 hp Magnetek C782    | 0.10             | 458        | 15300      | 14.8            |
| motor, wood housing, aluminum shutter | 0.15             | 459        | 9400       | 9.5             |
| and guard                             | 0.20             | 458        | 6700       | 6.3             |
|                                       | 0.25             | 457        | 5000       | 4.6             |