

**Bioenvironmental and Structural Systems Lab**  
**Fan Description Form**Project Number: 93300 Series/Test:     /    Test Date: September 16, 1993 File Name:                     **Fan**Make: Schaefer  
Model #: SE-4802  
Serial #: -  
Manufacturer: Schaefer  
Blade Size: 48"  
Orifice Dia.: 49"**Blade**Number: 3  
Shape: propeller  
Material: galv. steel  
Pitch: -  
Clearance: .5"  
Hub Diameter: -**Shutter**Material: aluminum  
Number Doors: 18 per row  
Number Rows: 2  
Door Length: 26.6"  
Location: intake**Other Attachments**Discharge cone 54" o.d., 49" i.d., 16.3" deep**Motor**Make: Magnetek  
Model #: C-597  
Serial #: -  
H.P.: 1.0 - .29  
Amps: 5.3 - 3.0  
Volts: 230RPM: 1725 - 1140S.F.: 1.0Drive Pulley Dia.: 2.8" o.d.  
AK28Axle Pulley Dia.: 10" o.d.Center Spacing: -**Housing**Material: galv. steelIntake Area: 54.3"x54.3"Discharge Area: 49" dia.Depth: 35" top**Guards**Description: painted wireSpacing: 1.5" concentricLocation: exhaust

TEST RESULTS

SCHAEFER SE-4802

|                                                | Static Pressure  | Speed      | Airflow    | Efficiency      |
|------------------------------------------------|------------------|------------|------------|-----------------|
|                                                | <u>in. water</u> | <u>rpm</u> | <u>cfm</u> | <u>cfm/Watt</u> |
| Test: 93300                                    | 0.00             | 483        | 19600      | 24.8            |
| Fan description:                               | 0.05             | 482        | 18200      | 21.8            |
| 48" belt drive, 1 hp Magnetek C-597            | 0.10             | 481        | 16400      | 18.7            |
| 2-speed motor, galvanized steel slant housing, | 0.15             | 480        | 14600      | 16.2            |
| aluminum shutter, guard and discharge cone     | 0.20             | 480        | 11100      | 11.9            |
|                                                | 0.25             | 478        | 6200       | 6.2             |
| * 2-speed motor - high speed performance       |                  |            |            |                 |

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