

**Bioenvironmental and Structural Systems Lab**  
**Fan Description Form**Project Number 90099 Series/Test     /    Test Date   5  /15  /90   Filename                     **Fan**Make Future ProductsModel # SBF 48Serial #                     Manufacturer Future ProductsBlade Size 48"Orifice Dia. 48.5"**Blade**Number 6Shape 20.5 x 6"Material steelPitch N/AClearance 1/4Hub Diameter 7"**Shutter**Material aluminumNumber Doors 11Number Rows 2Door Length 25.75"Location inlet**Other Attachments**

---

---

**Motor**Make Marathon ElectricModel # NUD56B17T10ASerial #                     H.P. 1Amps 16/8Volts 115/230RPM 1725S.F. 1.0Drive Pulley Dia.                     Axle Pulley Dia.                     Center Spacing                     **Housing**Material galvanized steelIntake Area 31.5 x 52.5"Discharge Area 53 x 53Depth 36.5 x 27(bottom)**Guards**Description bare wireSpacing 1 x 2Location outlet

TEST RESULTS

FUTURE PRODUCTS SBF-48

|                                            | Static Pressure  | Speed      | Airflow    | Efficiency      |
|--------------------------------------------|------------------|------------|------------|-----------------|
|                                            | <u>in. water</u> | <u>rpm</u> | <u>cfm</u> | <u>cfm/Watt</u> |
| Test: 90099                                | 0.00             | 415        | 18100      | 20.7            |
| Fan description:                           | 0.05             | 415        | 16900      | 18.6            |
| 48" belt drive, 1 hp Marathon NUD56B17T10A | 0.10             | 415        | 15600      | 16.9            |
| motor, galvanized steel slant housing,     | 0.15             | 410        | 13900      | 14.6            |
| aluminum shutter and guard                 | 0.20             | 410        | 11800      | 12.1            |
|                                            | 0.25             | 410        | 8700       | 8.6             |