

**Bioenvironmental and Structural Systems Lab**  
**Fan Description Form**Project Number: 96231 Series/Test:     /    Test Date: September 24, 1996 File Name:                     **Fan**Make: Hired HandModel #: 24" FF 6603-9532Serial #: -Manufacturer: Hired HandBlade Size: 24.3"Orifice Dia.: 24.8"**Blade**Number: 3Shape: propellerMaterial: aluminumPitch:                     Clearance: 0.2"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 7Number Rows: 2Door Length: 13.1"Location: intake**Other Attachments**Discharge cone 25.3" deep, 24.3" i.d., 31.5" o.d.**Motor**Make: MarathonModel #: 2WC48A11T2023A PSerial #: -H.P.: 1/2Amps: 6.4/3.2Volts: 115/230RPM: 1075S.F.: 1.0Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: ABSIntake Area: 28" x 28"Discharge Area: 24.3"Depth: 20"**Guards**Description: wireSpacing: 2.2" concentricLocation: exhaust

TEST RESULTS

HIRED HAND 24"FF 6603-9532

|                                        | Static Pressure  | Speed      | Airflow    | Efficiency      |
|----------------------------------------|------------------|------------|------------|-----------------|
|                                        | <u>in. water</u> | <u>rpm</u> | <u>cfm</u> | <u>cfm/Watt</u> |
| Test: 96231                            | 0.00             | 1129       | 7410       | 15.6            |
| Fan description:                       | 0.05             | 1125       | 7050       | 14.3            |
| 24" direct drive, ½ Marathon           | 0.10             | 1120       | 6690       | 13.0            |
| 2WC48A11T2023A motor, plastic housing, | 0.15             | 1117       | 6320       | 11.9            |
| plastic shutter # 6611-0109, guard     | 0.20             | 1112       | 5850       | 10.5            |
| and discharge cone                     | 0.25             | 1107       | 5350       | 9.5             |
|                                        | 0.30             | 1106       | 3170       | 5.6             |

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