

**Bioenvironmental and Structural Systems Lab**  
**Fan Description Form**Project Number: 96309 Series/Test:     /    Test Date: November 18, 1996 File Name:                     **Fan**Make: Chore-TimeModel #: 38785-4822Serial #: -Manufacturer: Chore-TimeBlade Size: 48"Orifice Dia.: 48.5"**Blade**Number: 2Shape: propellerMaterial: galvanized steelPitch: -Clearance: 0.3"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 15 per rowNumber Rows: 2Door Length: 26.2"Location: intake**Other Attachments****Motor**Make: EmersonModel #: K63ZZEDDSerial #:                     H.P.: 1Amps: 5.2Volts: 230RPM: 850S.F.: 1.0Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: galv. steelIntake Area:                     Discharge Area: 52.4"x52.4"Depth: 26.8" top  
24.8" bottom**Guards**Description: welded wireSpacing: 1" x 2"Location: exhaust

TEST RESULTS

CHORE-TIME 38785-4822

|                                      | Static Pressure  | Speed      | Airflow    | Efficiency      |
|--------------------------------------|------------------|------------|------------|-----------------|
|                                      | <u>in. water</u> | <u>rpm</u> | <u>cfm</u> | <u>cfm/Watt</u> |
| Test: 96309                          | 0.00             | 855        | 17900      | 20.4            |
| Fan description:                     | 0.05             | 850        | 16500      | 18.0            |
| 48" direct drive, 1 hp Emerson       | 0.10             | 847        | 15400      | 16.1            |
| K63ZZEDD motor, steel slant housing, | 0.15             | 841        | 13800      | 13.8            |
| plastic shutter and guard            | 0.20             | 837        | 12100      | 11.6            |
|                                      | 0.25             | 832        | 10300      | 9.6             |
|                                      | 0.30             | 803        | 6100       | 4.8             |

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