

**Bioenvironmental and Structural Systems Lab**  
**Fan Description Form**Project Number: 93388 Series/Test:     /    Test Date: September 22, 1993 File Name:                     **Fan**Make: Del AirModel #: 4KSerial #: MF4K-105Manufacturer: Del AirBlade Size: 20.2"Orifice Dia.: 20.4"**Blade**Number: 8Shape: propellerMaterial: plasticPitch: -Clearance: .2"Hub Diameter: 5.5"**Shutter (Butterfly Damper)**Material: plasticNumber Doors: 2Number Rows: n/aDoor Length: n/aLocation: exhaust**Other Attachments**wind hood 36" deep, modified butterfly damper spring**Motor**Make: FascoModel #: 7126-3292Serial #: -H.P.: 1/3Amps: 1.8/1.7Volts: 208/230RPM: 1100S.F.: -Drive Pulley Dia.: DirectAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 24" dia.Discharge Area: 20.4" dia.Depth: 10.8" dia.**Guards**Description: wireSpacing: 2" concentricLocation: intake

TEST RESULTS

DEL AIR NORTHWIND 4K

|                                           | Static Pressure  | Speed      | Airflow    | Efficiency      |
|-------------------------------------------|------------------|------------|------------|-----------------|
|                                           | <u>in. water</u> | <u>rpm</u> | <u>cfm</u> | <u>cfm/Watt</u> |
| Test: 93388                               | 0.00             | 1091       | 4610       | 13.1            |
| Fan description:                          | 0.05             | 1086       | 4410       | 12.2            |
| 20" direct drive, 1/3 hp Fasco 7126-3292  | 0.10             | 1084       | 4210       | 11.4            |
| motor, plastic housing, butterfly damper, | 0.15             | 1078       | 3990       | 10.7            |
| guard and wind hood                       | 0.20             | 1081       | 3690       | 10.0            |
|                                           | 0.25             | 1086       | 3250       | 9.0             |
|                                           | 0.30             | 1097       | 1710       | 5.2             |