

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 95272 Series/Test: / Test Date: October 6, 1995 File Name: **Fan**Make: AVSModel #: GSDC50Serial #: -Manufacturer: AVSBlade Size: 50"Orifice Dia.: 50.5"**Blade**Number: 3Shape: propellerMaterial: galv. steelPitch: -Clearance: .3"Hub Diameter: -**Shutter**Material: pvcNumber Doors: 13 per rowNumber Rows: 2Door Length: 26.3"Location: intake**Other Attachments**Discharge cone 57.5" o.d., 24" deep**Motor**Make: MagnetekModel #: 8-184220-01Serial #: -H.P.: 1.0Amps: 5.1Volts: 230RPM: 850S.F.: Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: galv. steelIntake Area: 54.5"x54.5"Discharge Area: 50.5" dia.Depth: 25.5" top
11" bottom**Guards**Description: wireSpacing: 1.8" concentricLocation: exhaust

TEST RESULTS

AIRSTREAM/CUMBERLAND GSDC50

Test: 95272	Static Pressure <u>in. water</u>	Speed <u>rpm</u>	Airflow <u>cfm</u>	Efficiency <u>cfm/Watt</u>
	0.00	826	20800	21.3
Fan description:	0.05	820	19400	19.0
50" direct drive, 1 hp Magnetek 8-184220-01	0.10	813	18000	16.8
motor, galvanized steel housing, plastic shutter,	0.15	805	16300	14.6
guard and discharge cone	0.20	797	14600	12.7
	0.25	787	12400	10.2
