

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 95269 Series/Test: / Test Date: October 6, 1995 File Name: **Fan**Make: AVSModel #: GSBC50Serial #: -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 #: 8-181617-01Serial #: -H.P.: 1.0Amps: 4.3/8.6Volts: 230/115RPM: 1725S.F.: 1.40Drive Pulley Dia.: 3" o.d.Axle Pulley Dia.: 10" o.d.Center 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 GSBC50

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 95269	0.00	596	23800	22.4
Fan description:	0.05	595	22400	20.4
50" belt drive, 1 hp Magnetek 181617 motor,	0.10	595	20900	18.7
galvanized steel slant housing, plastic shutter,	0.15	594	19000	16.7
guard and discharge cone	0.20	594	16800	14.5
	0.25	593	13800	11.8
	0.30	593	8600	7.6