

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 94328 Series/Test: / Test Date: November 17, 1994 File Name: **Fan**Make: AirstreamModel #: GSD50Serial #: -Manufacturer: GSIBlade Size: 50"Orifice Dia.: 50.5"**Blade**Number: 3Shape: propellerMaterial: galvanized steelPitch: -Clearance: .3"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 18 per rowNumber Rows: 2Door Length: 26.7"Location: intake**Other Attachments****Motor**Make: DaytonModel #: 4M644Serial #: -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"x52"Depth: 33.3" top
19" bottom**Guards**Description: welded wireSpacing: 1" x 2"Location: exhaust

TEST RESULTS

AIRSTREAM/CUMBERLAND GSD50

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94328	0.00	841	20400	19.2
Fan description:	0.05	836	19300	17.5
50" direct drive, 1 hp Dayton 4M644	0.10	830	18100	15.8
motor, galvanized steel slant housing,	0.15	824	16800	14.1
aluminum shutter and guard	0.20	818	15400	12.5
	0.25	812	13800	10.8
	0.30	801	11600	8.7
