

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 94243 Series/Test: / Test Date: August 17, 1994 File Name: **Fan**Make: AirstreamModel #: GP-1833Serial #: -Manufacturer: GSIBlade Size: 17.8"Orifice Dia.: 18.6"**Blade**Number: 6Shape: propellerMaterial: fiberglassPitch: -Clearance: .4"Hub Diameter: -**Shutter Dayton**Material: aluminumNumber Doors: 5Number Rows: 1Door Length: 17.8"Location: intake**Other Attachments**blade ground**Motor**Make: AirstreamModel #: 8U852Serial #: -H.P.: 1/3Amps: 3.6/1.8Volts: 115/230RPM: 1725S.F.: 1Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: fiberglassIntake Area: 18.5"x19.3"Discharge Area: 18.5" dia.Depth: 25.5" top
18.5" bottom**Guards**Description: wireSpacing: 1.8" concentricLocation: exhaust

TEST RESULTS

AIRSTREAM GP-18

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94243	0.00	1734	3400	9.9
Fan description:	0.05	1732	3270	9.4
18" direct drive, 1/3 hp Airstream 8U852	0.10	1731	3120	8.9
motor, fiberglass housing, aluminum	0.15	1732	2950	8.5
shutter and guard	0.20	1733	2730	7.9
	0.25	1734	2500	7.4
	0.30	1735	2230	6.6