

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96364 Series/Test: / Test Date: November 3, 1996 File Name: **Fan**Make: AirstreamModel #: APP14Serial #: -Manufacturer: AirstreamBlade Size: 14.9"Orifice Dia.: 15.5"**Blade**Number: 6Shape: propellerMaterial: fiberglassPitch: -Clearance: 0.3"Hub Diameter: -**Shutter PS18**Material: plasticNumber Doors: 4Number Rows: 1Door Length: 17.6"Location: intake**Other Attachments**discharge cone 19.4" deep, 19.5" o.d.**Motor**Make: MagnetekModel #: 8-187242Serial #: -H.P.: 1/4Amps: 3.0/1.5Volts: 115/230RPM: 1725S.F.: 1.0Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: -Discharge Area: 15.5"Depth: 21.5" top
20" bottom**Guards**Description: wireSpacing: 1.6" concentricLocation: exhaust

TEST RESULTS

AIRSTREAM APP14

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96364	0.00	1766	2830	9.6
Fan description:	0.05	1765	2710	9.0
14" direct drive, 1/4 hp AVS 8-187242	0.10	1763	2610	8.5
motor, plastic housing, plastic shutter,	0.15	1763	2500	8.0
guard and discharge cone	0.20	1761	2370	7.4
	0.25	1759	2240	6.9
	0.30	1759	1980	6.0
