

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96365 Series/Test: / Test Date: December 3, 1996 File Name: **Fan**Make: AirstreamModel #: APP24Serial #: -Manufacturer: AirstreamBlade Size: 25.9"Orifice Dia.: 26.1"**Blade**Number: 4Shape: propellerMaterial: fiberglassPitch: -Clearance: 0.1"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 8Number Rows: 2Door Length: 16"Location: intake**Other Attachments**discharge cone 23.5" deep, 31.5" o.d.**Motor**Make: MagnetekModel #: 8-186477Serial #: -H.P.: 1/3Amps: 1.9Volts: 230RPM: 1140S.F.: 1.0Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 33.8"x33.8"Discharge Area: 26.1" dia.Depth: 19.5" top
18" bottom**Guards**Description: wireSpacing: 1.5" concentricLocation: exhaust

TEST RESULTS

AIRSTREAM APP24

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96365	0.00	1069	7470	18.0
Fan description:	0.05	1061	7010	16.7
24" direct drive, 1/3 hp Magnetek 8-186477	0.10	1058	6550	15.0
motor, plastic housing, plastic shutter,	0.15	1046	6090	13.6
guard and discharge cone	0.20	1038	5550	12.3
	0.25	1035	4920	10.8
	0.30	1043	2940	6.6