

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 94186 Series/Test: / Test Date: May 26, 1994 File Name: **Fan**Make: Airstream
Model #: MM4810
Serial #: -
Manufacturer: GSI
Blade Size: 51"
Orifice Dia.: 49"**Motor**Make: Magnetek
Part #: 1-181617
Serial #: -
H.P.: 1
Amps: 4.3/8.6
Volts: 230/115**Blade** ***Leading edge ground**Number: 3
Shape: propeller
Material: fiberglass
Pitch: -
Clearance: na - Scotches
Hub Diameter: -RPM: 1725
S.F.: 1.4
Drive Pulley Dia.: variable
Axle Pulley Dia.: 10"
 AL104
Center Spacing: -**Housing**Material: Fiberglass
Intake Area: 55" x 55"
Discharge Area: 55" dia.
Depth: 52" top
 41" bottom**Shutter**Material: aluminum
Number Doors: 18 per row
Number Rows: 2
Door Length: 26.6"
Location: intake**Guards**Description: wire
Spacing: 1.8" concentric
Location: exhaust**Other Attachments**Cone 57" o.d.

TEST RESULTS

AIRSTREAM MM-4810

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94186	0.00	566	23100	22.6
Fan description:	0.05	565	21600	20.5
48" belt drive, 1 hp Magnetek 181617	0.10	564	19800	18.1
motor, fiberglass housing, aluminum	0.15	564	17400	15.8
shutter, guard and discharge cone	0.20	563	14800	13.5
	0.25	565	7100	6.9
