

Bioenvironmental and Structural Systems Lab

Fan Description Form

Project Number: 94089 Series/Test: /

Test Date: March 14, 1994 File Name:

Fan

Make: Airstream

Model #: GP2433SW

Serial #: -

Manufacturer: Airstream

Blade Size: 24"

Orifice Dia.: 24.4"

Blade

Number: 3

Shape: propeller

Material: galv. steel

Pitch: -

Clearance: .2"

Hub Diameter: -

Shutter

Material: plastic

Number Doors: 8/ row

Number Rows: 2

Door Length: 11.5"

Location: intake

Other Attachments

Motor

Make: Magnetek

Model #: HF3L078N

Serial #: -

H.P.: 1/3

Amps: 2.0/3.9

Volts: 230/115

RPM: 1100

S.F.: 1.0

Drive Pulley Dia.: direct

Axle Pulley Dia.: drive

Center Spacing: -

Housing

Material: fiberglass

Intake Area:

Discharge Area: 24.4" dia.

Depth: $\frac{34.6'' \text{ top}}{25.3'' \text{ bottom}}$

Guards

Description: wire

Spacing: 1.7" concentric

Location: exhaust

TEST RESULTS

AIRSTREAM GP-24

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94089	0.00	1063	5430	11.7
Fan description:	0.05	1061	5130	11.0
24" direct drive, 1/3 hp Magnetek HF3L078N	0.10	1060	4780	10.3
motor, fiberglass housing, plastic shutter	0.15	1060	4340	9.4
and guard	0.20	1062	3750	8.2
	0.25	1062	2810	6.2
	0.30	1046	2090	4.4