

Bioenvironmental and Structural Systems Lab

Fan Description Form

Project Number: 93264 Series/Test: /

Test Date: July 28, 1993 File Name: _____

Fan

Make: Acme

Model #: AGD48J8-G

Serial #: -

Manufacturer: Acme

Blade Size: 48.3"

Orifice Dia.: 48.5"

Blade

Number: 2

4 for motor cooling

Shape: propeller

Material: galv. steel

Pitch: 9.5 deg.

Clearance: .2"

Hub Diameter: -

Shutter

Material: aluminum

Number Doors: 13 per row

Number Rows: 2

Door Length: 25.3"

Location: intake

Other Attachments

Motor

Make: Magnetek

Model #: 8-181888

Serial #: -

H.P.: 1.0

Amps: 5.1

Volts: 230

RPM: 850

S.F.: 1.00

Drive Pulley Dia.: direct

Axle Pulley Dia.: drive

Center Spacing: -

Housing

Material: galv. steel

Intake Area: 52" x 52"

Discharge Area: 51" x 51"

Depth: 22.3"

Guards

Description: welded wire

Spacing: 2" x 4"

Location: exhaust

TEST RESULTS

ACME AGD48J8-G

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93264	0.00	848	18400	21.2
Fan description:	0.05	845	17000	19.0
48" direct drive, 1 hp Magnetek 8-181888	0.10	843	15500	16.9
motor, galvanized steel housing,	0.15	839	13800	14.7
aluminum shutter and guard	0.20	837	11900	12.5
	0.25	834	9800	10.2