

**Bioenvironmental and Structural Systems Lab
Fan Description Form**

Project Number: 93269 Series/Test: /

Test Date: July 28, 1993 File Name:

Fan

Make: Acme
 Model #: AGD48J8-A
 Serial #: -
 Manufacturer: Acme
 Blade Size: 48.3"
 Orifice Dia.: 48.5"

Blade

Number: 2
 Shape: 4 for motor cooling 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"x51.6"
 Discharge Area: 50.8"x51"
 Depth: 42.3" top
 28.3" bottom

Guards

Description: welded wire
 Spacing: 1" x 2"
 Location: exhaust

TEST RESULTS

ACME AGD48J8-A

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93269	0.00	847	18500	21.5
Fan description:	0.05	846	17100	19.1
48" direct drive, 1 hp Magnetek 8-181888	0.10	843	15700	17.1
motor, galvanized steel slant housing,	0.15	840	14200	15.2
aluminum shutter and guard	0.20	837	12600	13.2
	0.25	836	10600	11.0
