

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 93009 Series/Test: / Test Date: 2-1-93 File Name: **Fan**Make: AcmeModel #: AGD48J8-CSerial #: Manufacturer: AcmeBlade Size: 48.3"
24" shortOrifice Dia.: 48.8"**Blade**Number: 2-48"& 4-24"Shape: propMaterial: galv. steelPitch: Clearance: .3"Hub Diameter: **Shutter**Material: aluminumNumber Doors: 13 per rowNumber Rows: 2Door Length: 25.3"Location: intake**Other Attachments**Discharge cone 60" o.d., 48.5"i.d., 22.5" deep**Motor**Make: MagnetekPart #: 8-181888-01Serial #: H.P.: 1Amps: 5.1Volts: 230RPM: 850S.F.: 1Drive Pulley Dia.: directAxle Pulley Dia.: directCenter Spacing: direct**Housing**Material: Intake Area: 52.1"x 51.8"Discharge Area: 60"Depth: 32" top
17.3" bottom**Guards**Description: wireSpacing: 2.1" concentricLocation: exhaust

TEST RESULTS

ACME AGD48J8-C

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93009	0.00	836	21400	21.7
Fan description:	0.05	829	19700	19.1
48" direct drive, 1 hp Magnetek 8-181888-01	0.10	824	18100	16.9
motor, galvanized steel slant housing,	0.15	818	16400	14.9
aluminum shutter guard and discharge cone	0.20	813	14400	12.8
	0.25	808	11300	9.8
	0.30	804	8700	7.4
