

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 93270 Series/Test: / Test Date: July 29, 1993 File Name: **Fan**Make: AcmeModel #: DDPG48J-CSerial #: -Manufacturer: AcmeBlade Size: 48"Orifice Dia.: 48.5"**Blade**Number: 4Shape: propellerMaterial: galvanized steelPitch: -Clearance: .3"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 13 per rowNumber Rows: 2Door Length: 26.8"Location: intake**Other Attachments**Discharge cone 22.8" i.d., 48.5" i.d., 58.5" o.d.**Motor**Make: MagnetekModel #: 8-181782-01Serial #: -H.P.: 1Amps: 4.4/8.8Volts: 230/115RPM: 1725S.F.: 1.00Drive Pulley Dia.: 3.0" o.d.Axle Pulley Dia.: 10.9"Center Spacing: -**Housing**Material: fiberglassIntake Area: 57.5"x55.4"Discharge Area: 48.5"Depth: 36" top
23" bottom**Guards**Description: wireSpacing: 2.3" concentricLocation: exhaust

TEST RESULTS

ACME DDPG48J-C

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93270	0.00	474	22500	25.1
Fan description:	0.05	472	21300	22.5
48" belt drive, 1 hp Magnetek 8-181782-01	0.10	471	20000	20.2
motor, fiberglass housing, aluminum shutter,	0.15	471	18500	17.8
guard and discharge cone	0.20	468	16700	15.5
	0.25	467	14700	13.2
	0.30	466	11000	9.5
