

**Bioenvironmental and Structural Systems Lab
Fan Description Form**Project Number: 93273 Series/Test: / Test Date: July 29, 1993 File Name: **Fan**Make: AcmeModel #: DDPG48J8-CSerial #: -Manufacturer: AcmeBlade Size: 48.3"Orifice Dia.: 48.5"**Blade**Number: 2 large4 smallShape: propellerMaterial: galvanized steelPitch: -Clearance: .2"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 #: 8-181888Serial #: -H.P.: 1Amps: 5.1Volts: 230RPM: 850S.F.: 1.00Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: fiberglassIntake Area: 57.5"x55.4"Discharge Area: 48.5"Depth: 36" top23" bottom**Guards**Description: wireSpacing: 2.3" concentricLocation: exhaust

TEST RESULTS

ACME DDPG48J8-C

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93273	0.00	834	22100	23.4
Fan description:	0.05	830	20600	20.8
48" direct drive, 1 hp Magnetek 8-181888	0.10	824	19000	18.4
motor, fiberglass housing, aluminum shutter,	0.15	819	17400	16.3
guard and discharge cone	0.20	813	15400	14.0
	0.25	809	12900	11.4
