

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 93272 Series/Test: / Test Date: July 29, 1993 File Name: **Fan**Make: AcmeModel #: DDPS48J8-CSerial #: -Manufacturer: AcmeBlade Size: 48.3"Orifice Dia.: 48.5"**Blade**Number: 2 large4 smallShape: propellerMaterial: stainless 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 DDPS48J8-C

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93272	0.00	840	22500	24.2
Fan description:	0.05	833	21000	21.7
48" direct drive, 1 hp Magnetek 8-181888	0.10	827	19300	19.0
motor, fiberglass housing, aluminum shutter,	0.15	821	17500	16.5
guard and discharge cone	0.20	815	15600	14.3
	0.25	809	12800	11.3
