

**Bioenvironmental and Structural Systems Lab
Fan Description Form**Project Number: 94188 Series/Test: / Test Date: June 1, 1994 File Name: **Fan**Make: AcmeModel #: DDPS48K-CSerial #: -Manufacturer: AcmeBlade Size: 48"Orifice Dia.: 48.5"**Blade**Number: 4Shape: propellerMaterial: stainless steelPitch: -Clearance: .3"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 13 per rowNumber Rows: 2Door Length: 26.8"Location: intake**Other Attachments**discharge cone, 59" o.d., 48.5" i.d.**Motor**Make: G.E.Model #: 5KCR48WN0139SSerial #: -H.P.: 1.5Amps: 18.2/9.1Volts: 115/230RPM: 1725S.F.: 1.00Drive Pulley Dia.: 3.5" o.d.Axle Pulley Dia.: 11" o.d.Center Spacing: -**Housing**Material: FiberglassIntake Area: 55.3x57.3"Discharge Area: 48.5" dia.Depth: 38.5" top
24" bottom**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

ACME DDPS48K-C

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94188	0.00	543	24100	21.6
Fan description:	0.05	542	23200	19.7
48" belt drive, 1.5 hp GE 5KCR48WNO139S	0.10	541	22300	18.1
motor, fiberglass housing, aluminum shutter,	0.15	539	21300	16.6
guard and discharge cone	0.20	539	20200	15.1
	0.25	538	18800	13.5
	0.30	538	17200	12.0
