

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 94187 Series/Test: / Test Date: June 1, 1994 File Name: **Fan**Make: AcmeModel #: DDPG48K-CSerial #: -Manufacturer: AcmeBlade Size: 48"Orifice Dia.: 48.5"**Blade**Number: 4Shape: propellerMaterial: galv. 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 DDPG48K-C

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94187	0.00	542	25500	20.8
Fan description:	0.05	540	24600	19.3
48" belt drive, 1.5 hp GE 5KCR48WNO139S	0.10	540	23600	17.7
motor, fiberglass housing, aluminum shutter,	0.15	539	22600	16.2
guard and discharge cone	0.20	537	21200	14.6
	0.25	537	19700	13.1
	0.30	536	17100	11.1
