

**Bioenvironmental and Structural Systems Lab
Fan Description Form**Project Number: 93008 Series/Test: / Test Date: 2-1-93 File Name: **Fan**Make: AcmeModel #: DC48J-CSerial #: Manufacturer: AcmeBlade Size: 48"Orifice Dia.: 48.5"**Blade**Number: 6Shape: propMaterial: steelPitch: Clearance: .3"Hub Diameter: **Shutter**Material: aluminumNumber Doors: 13 per rowNumber Rows: 2Door Length: 25.3"Location: intake**Other Attachments**Discharge cone 60" o.d., 48.5" i.d., 22.5" deep**Motor**Make: G.E.Model #: 5KCR495N00205Serial #: H.P.: 1Amps: 9.6/4.8Volts: 115/208-230RPM: 1725S.F.: 1Drive Pulley Dia.: 3.3"Axle Pulley Dia.: 14.3"Center Spacing: **Housing**Material: Intake Area: 52.1"x 51.8"Discharge Area: 60"Depth: 32" top
17.3" bottom**Guards**Description: wireSpacing: 2.1" concentricLocation: exhaust

TEST RESULTS

ACME DC48J-C

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93008	0.00	391	22500	23.4
Fan description:	0.05	389	21100	20.7
48" belt drive, 1 hp GE 5KCR495N00205	0.10	388	19500	18.4
motor, galvanized steel slant housing,	0.15	387	17500	15.9
aluminum shutter, guard and discharge cone	0.20	387	15000	13.3
	0.25	387	11900	10.5
	0.30	386	8600	7.4
