

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 93010 Series/Test: / Test Date: 2-1-93 File Name: **Fan**Make: AcmeModel #: BDR48J-CSerial #: Manufacturer: AcmeBlade Size: 48.1"Orifice Dia.: 48.8"**Blade**Number: 4Shape: 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: 4.8/9.6Volts: 115/230RPM: 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 BDR48J-C

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93010	0.00	474	22500	23.6
Fan description:	0.05	472	21400	21.4
48" belt drive, 1 hp GE 5KCR49SN00205	0.10	471	20000	19.3
motor, galvanized steel slant housing,	0.15	469	18500	17.1
aluminum shutter, guard and discharge cone	0.20	468	16700	15.0
	0.25	467	14700	12.7
	0.30	466	10800	9.1
