

**Bioenvironmental and Structural Systems Lab
Fan Description Form**Project Number: 95290 Series/Test: / Test Date: October 24, 1995 File Name: **Fan**Make: AcmeModel #: BDR48K-CSerial #: -Manufacturer: AcmeBlade Size: 48"Orifice Dia.: 48.5"**Blade**Number: 4Shape: propellerMaterial: Galvanized steelPitch: -Clearance: .3"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 13 per rowNumber Rows: 2Door Length: 25.3"Location: intake**Other Attachments**Discharge cone 22.5" deep, 59" o.d.**Motor**Make: GEModel #: 5KCR48WN0139SSerial #: -H.P.: 1.5Amps: 18.2/9.1Volts: 115/208-230RPM: 1725S.F.: 1.00Drive Pulley Dia.: AK34Axle Pulley Dia.: AK114
11" o.d.Center Spacing: -**Housing**Material: galv. steelIntake Area: 52"x51.6"Discharge Area: 51.5"x51.5"Depth: 35.5" top
20.3" bottom**Guards**Description: welded wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

ACME BDR48K-C

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 95290	0.00	535	26500	17.9
Fan description:	0.05	534	25600	16.6
48" belt drive, 1.5 hp GE 5KCR48WN0139S	0.10	533	24600	15.5
motor, steel slant housing, aluminum shutter,	0.15	532	23500	14.3
guard and discharge cone	0.20	531	22300	13.3
	0.25	530	20800	12.1
	0.30	529	19100	10.9
