

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 95282 Series/Test: / Test Date: October 24, 1995 File Name: **Fan**Make: AcmeModel #: BDR48K-ASerial #: -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****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: 1" x 2"Location: exhaust

TEST RESULTS

ACME BDR48K-A

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 95282	0.00	533	24100	15.2
Fan description:	0.05	532	23200	14.4
48" belt drive, 1.5 hp GE 5KCR48WN0139S	0.10	531	22300	13.5
motor galvanized steel slant housing,	0.15	530	21200	12.6
aluminum shutter and guard	0.20	530	20100	11.9
	0.25	530	18800	11.0
	0.30	530	17500	10.1