

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 93221 Series/Test: / Test Date: July 13, 1993 File Name: **Fan**Make: AcmeModel #: DC48J-ASerial #: Manufacturer: AcmeBlade Size: 48"Orifice Dia.: 48.5"**Blade**Number: 6Shape: propellerMaterial: steelPitch: -Clearance: .3"Hub Diameter: 7.5"**Shutter**Material: AluminumNumber Doors: 13 per rowNumber Rows: 2Door Length: 25.3"Location: intake**Other Attachments****Motor**Make: G.E.Model #: 5KCR49SN0020SSerial #: 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: galv. steelIntake Area: 51.6"x52"Discharge Area: 51" x 50.8"Depth: 42.3"top
28.3" bottom**Guards**Description: welded wireSpacing: 1" x 2"Location: exhaust

TEST RESULTS

ACME DC48J-A

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93221	0.00	377	19900	21.3
Fan description:	0.05	376	18800	19.5
48" belt drive, 1 hp GE 5KCR49SN0020S	0.10	376	17600	17.9
motor, galvanized steel slant housing,	0.15	376	16000	15.8
aluminum shutter and guard	0.20	375	13500	13.2
	0.25	375	10200	9.8
