

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 93108 Series/Test: / Test Date: March 9, 1993 File Name: **Fan**Make: J & DModel #: VF48CSSerial #: Manufacturer: J & DBlade Size: 48"Orifice Dia.: 48.5"**Blade**Number: 3Shape: propellerMaterial: steelPitch: -Clearance: .3"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 13 per rowNumber Rows: 2Door Length: 26.8"Location: intake**Other Attachments**Discharge cone 16.5" deep, 54" o.d., 48.5" i.d.**Motor**Make: MagnetekModel #: C582Serial #: H.P.: 1.0Amps: 4.8/9.6Volts: 230/115RPM: 1725S.F.: 1.0Drive Pulley Dia.: 3"Axle Pulley Dia.: 10.3"Center Spacing: -**Housing**Material: galv. steelIntake Area: 54.5"x54.5"Discharge Area: 48.5"Depth: 24.5"**Guards**Description: painted wireSpacing: 1.5" concentricLocation: exhaust

TEST RESULTS

J & D VF48CS

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93108	0.00	519	22400	24.5
Fan description:	0.05	517	21000	21.7
48" belt drive, 1 hp Magnetek C582	0.10	516	19400	19.2
motor, galvanized steel housing, aluminum	0.15	515	17700	17.0
shutter, guard and discharge cone	0.20	513	15700	14.5
	0.25	512	13000	11.6
