

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 93140 Series/Test: / Test Date: April 5, 1993 File Name: **Fan**Make: J & DModel #: VF48CS2Serial #: 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****Motor**Make: MagnetekCat. #: C597Serial #: H.P.: 1.0 - .29Amps: 5.3 - 3.0Volts: 230RPM: 1725 - 1140S.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 VF48CS2

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93140	0.00	502	21600	21.6
Fan description:	0.05	500	20100	19.2
48" belt drive, 1 hp Magnetek C597	0.10	500	18500	16.9
2-speed motor, galvanized steel housing,	0.15	499	16800	14.8
aluminum shutter, guard and discharge cone	0.20	497	14600	12.5
	0.25	497	11700	9.7
* 2-speed motor - high speed performance				
