

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96218 Series/Test: / Test Date: September 4, 1996 File Name: **Fan**Make: SchaeferModel #: PFM6000-1Serial #: -Manufacturer: SchaeferBlade Size: 20.3"Orifice Dia.: 20.5"**Blade**Number: 4Shape: propellerMaterial: plasticPitch: -Clearance: 0.1"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 7Number Rows: 1Door Length: 21.6"Location: intake**Other Attachments****Motor**Make: MagnetekModel #: HF2Too6Serial #: -H.P.: 1/2Amps: 4.0/2.0Volts: 115/230RPM: 1725S.F.: 1.0Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 23.5"x22.5"Discharge Area: 20.1" dia.Depth: 26" top19.5" bottom**Guards**Description: wireSpacing: 1.6" concentricLocation: exhaust

TEST RESULTS

SCHAEFER PFM6000-1

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96218	0.00	1515	5143	8.4
Fan description:	0.05	1508	4966	8.2
20" direct drive, ½ hp Magnetek HF2T006	0.10	1509	4782	7.7
motor, plastic housing,	0.15	1508	4571	7.4
plastic shutter and guard	0.20	1510	4361	7.1
	0.25	1515	4118	6.7
	0.30	1522	3730	6.2