

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96219 Series/Test: / Test Date: September 4, 1996 File Name: **Fan**Make: SchaeferModel #: PFM2000-1Serial #: -Manufacturer: SchaeferBlade Size: 20.3"Orifice Dia.: 20.5"**Blade**Number: 3Shape: propellerMaterial: plasticPitch: -Clearance: 0.1"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 7Number Rows: 1Door Length: 21.6"Location: intake**Other Attachments****Motor**Make: MagnetekModel #: HF2J031Serial #: -H.P.: 1/3Amps: 3.8/1.9Volts: 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 PFM2000-1

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96219	0.00	1744	3730	13.9
Fan description:	0.05	1741	3533	12.8
20" direct drive, 1/3 hp Magnetek HF2J031	0.10	1740	3318	12.1
motor, plastic housing,	0.15	1739	3075	10.9
plastic shutter and guard	0.20	1738	2783	10.0
	0.25	1738	2480	8.7
	0.30	1739	2225	8.2
