

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96220 Series/Test: / Test Date: September 4, 1996 File Name: **Fan**Make: SchaeferModel #: PFM1600-1Serial #: -Manufacturer: SchaeferBlade Size: 17"Orifice Dia.: 17.5"**Blade**Number: 3Shape: propellerMaterial: plasticPitch: -Clearance: 0.3"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 6Number Rows: 1Door Length: 17.7"Location: intake**Other Attachments**

MotorMake: MagnetekModel #: HF2J031Serial #: -H.P.: 1/3Amps: 3.8/1.9Volts: 115/230RPM: 1725S.F.: 1.00Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 18.5"x18.5"Discharge Area: 17.3" dia.Depth: 24.5" top
17.8" bottom**Guards**Description: wireSpacing: 1.5" concentricLocation: exhaust

TEST RESULTS

SCHAEFER PFM1600-1

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96220	0.00	1718	3217	9.6
Fan description:	0.05	1717	3085	9.2
16" direct drive, 1/3 hp Magnetek HF2J031	0.10	1716	2953	8.7
motor, plastic housing,	0.15	1716	2808	8.3
plastic shutter and guard	0.20	1717	2602	7.6
	0.25	1718	2404	7.1
	0.30	1719	1418	4.3
