

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96222 Series/Test: / Test Date: September 4, 1996 File Name: **Fan**Make: SchaeferModel #: PFM0900-1Serial #: -Manufacturer: SchaeferBlade Size: 9.3"Orifice Dia.: 9.5"**Blade**Number: 6Shape: propellerMaterial: plasticPitch: -Clearance: 0.1"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 4Number Rows: 1Door Length: 11.8"Location: intake**Other Attachments****Motor**Make: MagnetekModel #: JF1K017Serial #: -H.P.: 1/6Amps: 1.9/1.0Volts: 115/230RPM: 3000S.F.: 1.00Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 12.8"x12.8"Discharge Area: 9.5" dia.Depth: 18.5" top14.5" bottom**Guards**Description: wireSpacing: 1.5" concentricLocation: exhaust

TEST RESULTS

SCHAEFER PFM0900-1

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96222	0.00	3078	1113	5.0
Fan description:	0.05	3064	1091	4.9
9" direct drive, 1/6 hp Magnetek JF1K017	0.10	3060	1063	4.7
motor, plastic housing,	0.15	3045	1034	4.3
plastic shutter and guard	0.20	3029	1000	4.1
	0.25	3007	963	3.9
	0.30	2993	922	3.7
