

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96254 Series/Test: / Test Date: October 17, 1996 File Name: **Fan**Make: CanarmModel #: PLF48-MPSerial #: -Manufacturer: CanarmBlade Size: 48"Orifice Dia.: 49.2"**Blade**Number: 3Shape: propellerMaterial: galv. steelPitch: -Clearance: 0.6"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 13 per rowNumber Rows: 2Door Length: 24.5"Location: intake**Other Attachments**Discharge cone 26" deep, 57"o.d.**Motor**Make: DaytonModel #: 4M644Serial #: -H.P.: 1Amps: 5.2Volts: 230RPM: 850S.F.: 1.0Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 48.3"x48.3"Discharge Area: 49.2" dia.Depth: 30.5" top
27" bottom**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

CANARM PLF48-MP

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96254	0.00	832	21400	20.4
Fan description:	0.05	825	20000	18.1
48" direct drive, 1 hp Dayton 4M644 motor,	0.10	818	18700	16.3
plastic housing, plastic shutter, guard	0.15	811	16900	14.0
and discharge cone	0.20	800	14500	11.6
	0.25	789	11900	9.1
	0.30	766	7600	5.4
