

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 94335 Series/Test: / Test Date: November 21, 1994 File Name: **Fan**Make: CanarmModel #: PLF24-MSerial #: -Manufacturer: CanarmBlade Size: 23.8"Orifice Dia.: 24.3"**Blade**Number: 6Shape: propellerMaterial: polypropylenePitch: -Clearance: .3"Hub Diameter: 6.3"**Shutter**Material: plasticNumber Doors: 7aNumber Rows: 1Door Length: 24.3"Location: intake**Other Attachments**discharge cone 20" deep, 33" o.d.**Motor**Make: MarathonPart #: 3-027-1050Serial #: -H.P.: 1/3Amps: 4.4/2.2Volts: 115/230RPM: 1075S.F.: 1.0Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 26.3"x26.3"Discharge Area: 24.3" dia.Depth: 23" top
20" bottom**Guards**Description: painted wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

CANARM PLF24-M

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94335	0.00	1107	5920	14.6
Fan description:	0.05	1106	5640	13.7
24" direct drive, 1/3 hp Marathon 3-027-1050	0.10	1104	5300	12.9
motor, plastic housing, plastic shutter,	0.15	1105	4920	12.1
guard and discharge cone	0.20	1105	4430	11.0
	0.25	1114	3350	8.8
	0.30	1117	2660	7.2