

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 97102 Series/Test: / Test Date: March 21, 1997 File Name: **Fan**Make: CanarmModel #: PLF24-MFPSerial #: -Manufacturer: CanarmBlade Size: 24"Orifice Dia.: 24.8"**Blade T10S08-2431**Number: 3Shape: propellerMaterial: aluminumPitch: 31 deg.Clearance: 0.4"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 7Number Rows: 1Door Length: 24.3"Location: intake**Other Attachments**Dischage cone 20" deep, 33" o.d.**Motor**Make: MarathonModel #: 3WD43A11T573ASerial #: -H.P.: 1/3Amps: 4.4/2.2Volts: 115/230RPM: 1075S.F.: 1.0Drive Pulley Dia.: diectAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: PlasticIntake Area: 26" x 26"Discharge Area: 24.8"Depth: 24.5"
22.5"**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

CANARM PLF24-MFP

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 97102	0.00	1081	6920	15.2
Fan description:	0.05	1073	6640	14.0
24" direct drive, 1/3 hp Marathon 3WD43A11T573A	0.10	1064	6340	12.8
motor, plastic housing, plastic shutter,	0.15	1053	5960	11.5
guard and discharge cone	0.20	1044	5500	10.3
	0.25	1033	4960	8.9
	0.30	1012	4240	7.2
