

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 94339 Series/Test: / Test Date: November 21, 1994 File Name: **Fan**Make: CanarmModel #: PLF24-GVDSerial #: -Manufacturer: CanarmBlade Size: 23.8"Orifice Dia.: 24.3"**Blade**Number: 3Shape: propellerMaterial: polypropylenePitch: -Clearance: .3"Hub Diameter: 6.3"**Shutter**Material: plasticNumber Doors: 7Number Rows: 1Door Length: 24.3"Location: intake**Other Attachments**Discharge cone 20" deep, 33" o.d.**Motor**Make: MarathonModel #: 1WJ48A17T244A PSerial #: -H.P.: 1/2Amps: 5.4/2.7Volts: 115/230RPM: 1625S.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-GVD

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94339	0.00	1575	6990	10.5
Fan description:	0.05	1571	6720	10.1
24" direct drive, 1/2 Marathon 1WJ48A17T244A	0.10	1569	6440	9.7
motor, plastic housing, plastic shutter,	0.15	1567	6160	9.3
guard and discharge cone	0.20	1568	5820	8.9
	0.25	1571	5420	8.5
	0.30	1578	4899	7.8