

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 97100 Series/Test: / Test Date: March 20, 1997 File Name: **Fan**Make: CanarmModel #: PBF24SWCSerial #: -Manufacturer: CanarmBlade Size: 24"Orifice Dia.: 24.8"**Blade T10S08A-2431**Number: 3Shape: propellerMaterial: aluminumPitch: -Clearance: 0.4"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 7Number Rows: 1Door Length: 28.5"Location: intake**Other Attachments**

discharge cone 14.7" deep, 33.3" o.d.
blade moved 3/8" on shaft to rear compared to 97099. Furthest back possible.

MotorMake: MarathonModel #: 3WD43A11T573ASerial #: -H.P.: 1/3Amps: 4.4/2.2Volts: 115/230RPM: 1075S.F.: 1.0Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: Plastic/ssIntake Area: 30"x30.2"Discharge Area: 27.2" dia.Depth: 30.5" top
25" bottom**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

CANARM PBF24SWC

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 97100	0.00	1106	7620	18.8
Fan description:	0.05	1096	7320	17.1
24" direct drive, 1/3 hp Marathon 3WD43A11T573A	0.10	1086	7000	15.5
motor, plastic housing w/slant kit, , plastic shutter,	0.15	1074	6630	13.7
guard and discharge cone	0.20	1060	6200	12.2
	0.25	1048	5780	10.9
	0.30	1032	5180	9.2
