

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96284 Series/Test: / Test Date: October 22, 1996 File Name: **Fan**Make: Canarm
Model #: PBF24 w/slant kit
1075, cone
Serial #: -
Manufacturer: Canarm
Blade Size: 24"
Orifice Dia.: 24.7"**Blade**Number: 6
Shape: propeller
Material: polypropylene
Pitch: 45 deg.
Clearance: 0.4"
Hub Diameter: -**Shutter**Material: plastic
Number Doors: 7
Number Rows: 1
Door Length: 28.5"
Location: intake**Other Attachments**discharge cone 15.5" deep, 33.3" o.d.**Motor**Make: Marathon
Model #: 3WD48A11T573A
Serial #: -
H.P.: 1/3
Amps: 4.4/2.2
Volts: 115/230
RPM: 1075
S.F.: 1.0
Drive Pulley Dia.: direct
Axle Pulley Dia.: drive
Center Spacing: -**Housing**Material: Plastic/ss
Intake Area: 27.3"x27.7"
Discharge Area: 27" dia.
Depth: 31.5"top
26.5"bottom**Guards**Description: wire
Spacing: 2" concentric
Location: exhaust

TEST RESULTS

CANARM PBF24 1/3 hp w/slant kit, cone

	Static Pressure	Speed	Airflow	Efficiency
Test: 96284	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
	0.00	1116	6250	16.4
Fan description:	0.05	1114	5950	15.5
24" direct drive, 1/3 hp Marathon 3WD48A11T573A	0.10	1112	5630	14.5
motor, plastic slant housing, plastic shutter,	0.15	1111	5360	13.6
guard and discharge cone	0.20	1110	4780	12.2
	0.25	1115	3720	9.6
	0.30	1114	2780	7.2
