

Bioenvironmental and Structural Systems Lab

Fan Description Form

Project Number: 96283 Series/Test: /

Test Date: October 22, 1996 File Name:

Fan

Make: Canarm

Model #: PBF24 w/slant kit
1075

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

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" x 2"

Location: exhaust

TEST RESULTS

CANARM PBF24 1/3 hp w/slant kit

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96283	0.00	1114	5870	15.1
Fan description:	0.05	1114	5540	14.1
24" direct drive, 1/3 hp Marathon	0.10	1114	5180	13.0
3WD48A11T573A motor, plastic slant	0.15	1113	4800	12.2
housing, plastic shutter and guard	0.20	1113	4250	10.9
	0.25	1115	3650	9.6
	0.30	1115	2860	7.5
