

Bioenvironmental and Structural Systems Lab

Fan Description Form

Project Number: 96262 Series/Test: /

Test Date: October 19, 1996 File Name: _____

Fan

Make: Canarm

Model #: PBF36 w/slant kit

Serial #: -

Manufacturer: Canarm

Blade Size: 36"

Orifice Dia.: 36.8"

Blade

Number: 3

Shape: propeller

Material: galv. steel

Pitch: -

Clearance: 0.4"

Hub Diameter: -

Shutter

Material: Plastic

Number Doors: 11 per row

Number Rows: 2

Door Length: 19.8"

Location: intake

Other Attachments

Motor

Make: FHP

Model #: M099838

Serial #: -

H.P.: 1/2

Amps: 6.0/3.0

Volts: 115/230

RPM: 850

S.F.: 1.15

Drive Pulley Dia.: direct

Axle Pulley Dia.: drive

Center Spacing: -

Housing

Material: Plastic/galv

Intake Area: 40" x 40"

Discharge Area: 38.5" o.d.

Depth: 19"

Guards

Description: wire mesh

Spacing: 2" x 2"

Location: exhaust

TEST RESULTS

CANARM PBF36 w/slant kit

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96262	0.00	836	12680	22.4
Fan description:	0.05	827	11830	19.8
36" direct drive, ½ hp MOP MO99838	0.10	817	10920	17.1
motor, plastic slant housing, plastic shutter	0.15	805	9850	14.7
and guard	0.20	783	7960	10.9
