

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96303 Series/Test: / Test Date: November 1, 1996 File Name: **Fan**Make: Canarm
Model #: PBF48 w/slant kit
Serial #: -
Manufacturer: Canarm
Blade Size: 48"
Orifice Dia.: 49"**Blade**Number: 3
Shape: propeller
Material: galvanized steel
Pitch: -
Clearance: 48"
Hub Diameter: 49"**Shutter**Material: Plastic
Number Doors: 14 per row
Number Rows: 2
Door Length: 25.8"
Location: intake**Other Attachments**Discharge cone 23" deep, 57" o.d.**Motor**Make: FHP
Model #: M009648
Serial #: -
H.P.: 1
Amps: 5.0
Volts: 230
RPM: 850
S.F.: 1
Drive Pulley Dia.: direct
Axle Pulley Dia.: drive
Center Spacing: -**Housing**Material: Plastic
Intake Area: 52.3"x52.3"
Discharge Area: 52" dia.
Depth: 17.5"**Guards**Description: wire
Spacing: 2" concentric
Location: exhaust

TEST RESULTS

CANARM PBF48 w/slant kit, cone

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96303	0.00	836	22400	21.9
Fan description:	0.05	829	21100	19.6
48" direct drive, 1 hp FHP M009648 motor,	0.10	822	19700	17.7
plastic housing, plastic shutter,	0.15	813	18200	15.7
guard and discharge cone	0.20	807	16200	13.5
	0.25	804	14200	11.5
	0.30	793	10900	8.6
