

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96256 Series/Test: / Test Date: October 18, 1996 File Name: **Fan**Make: CanarmModel #: PBF48EE w/slant
wall kitSerial #: -Manufacturer: CanarmBlade Size: 48"Orifice Dia.: 49"**Blade**Number: 3Shape: propellerMaterial: galv. steelPitch: -Clearance: 0.5"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 14 per rowNumber Rows: 2Door Length: 25.8"Location: intake**Other Attachments****Motor**Make: MarathonModel #: 3WH56B17T5303BPSerial #: -H.P.: 1Amps: 9.2/4.6Volts: 115/230RPM: 1725S.F.: 1.0Drive Pulley Dia.: 2.8"o.d.Axle Pulley Dia.: 9" o.d.Center Spacing: -**Housing**Material: Plastic/
galv. steelIntake Area: 51.8"x52"Discharge Area: 52" dia.Depth: 36.5" top
27" bottom**Guards**Description: wireSpacing: 2" x 2"Location: exhaust

TEST RESULTS

CANARM PBF48EE w/slant kit

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96256	0.00	530	21000	23.2
Fan description:	0.05	529	19800	20.8
48" belt drive, 1 hp Marathon	0.10	527	18300	18.6
3WH56B17T5303BP motor, plastic slant	0.15	527	16600	16.1
housing, plastic shutter and guard	0.20	526	14300	13.3
	0.25	523	10000	8.8
	0.30	518	5900	4.7
