

**Bioenvironmental and Structural Systems Lab
Fan Description Form**Project Number: 96257 Series/Test: / Test Date: October 18, 1996 File Name: **Fan**Make: CanarmModel #: PBF48EE w/slant
wall kit & ConeSerial #: -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**Discharge cone 23" deep, 57" o.d.**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" concentricLocation: exhaust

TEST RESULTS

CANARM PBF48EE w/slant kit, cone

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96257	0.00	532	21900	25.5
Fan description:	0.05	530	20500	22.5
48" belt drive, 1 hp Marathon 3WH56B17T5303BP	0.10	528	19000	19.8
motor, plastic slant housing, plastic shutter,	0.15	526	17000	16.8
guard and discharge cone	0.20	524	14800	14.1
	0.25	523	11400	10.3
	0.30	520	71100	6.0
