

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 97082 Series/Test: / Test Date: March 19, 1997 File Name: **Fan**Make: CanarmModel #: PBF48HEBDSWCSerial #: -Manufacturer: CanarmBlade Size: 48"Orifice Dia.: 49"**Blade Revcor**Number: 3Shape: propellerMaterial: galvanized steelPitch: -Clearance: 0.5"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 14 per rowNumber Rows: 2Door Length: 25.9"Location: intake**Other Attachments**discharge cone 24" deep, 57.2" o.d., slant wall kit**Motor**Make: MarathonModel #: 3WH56B17T5303BSerial #: -H.P.: 1Amps: 9.2/4.6Volts: 115/230RPM: 1725S.F.: 1.15Drive Pulley Dia.: 2.8"Axle Pulley Dia.: 9"Center Spacing: -**Housing**Material: plastic/stl.Intake Area: 54.2"x54.2"Discharge Area: 52" dia.Depth: 36.3" top
26.8" bottom**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

CANARM PBF48HEBDSWC

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 97082	0.00	540	23700	23.9
Fan description:	0.05	538	22400	21.4
48" belt drive, 1 hp Marathon 3WH56B17T5303B	0.10	535	20900	19.0
motor, plastic housing w/slant kit, plastic shutter,	0.15	535	19200	16.7
guard and discharge cone	0.20	532	16800	14.2
	0.25	531	13400	11.0
