

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 97067 Series/Test: / Test Date: March 17, 1997 File Name: **Fan**Make: CanarmModel #: PBF48HEDD w/slant kitSerial #: -Manufacturer: CanarmBlade Size: 47.9"Orifice Dia.: 49"**Blade**Number: 3Shape: propellerMaterial: galvanized steelPitch: 22.7Clearance: 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.**Motor**Make: FHPModel #: M009648Serial #: -H.P.: 1Amps: 5.0Volts: 230RPM: 850S.F.: -Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: PlasticIntake Area: 54.2"x54.2"Discharge Area: 50.3" dia.Depth: 36.3" top
26.8" bottom**Guards**Description: wireSpacing: 1" x 2"Location: exhaust

TEST RESULTS

CANARM PBF48HEDD w/slant kit

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 97067	0.00	842	22800	23.9
Fan description:	0.05	834	21600	21.3
48" direct drive, 1 hp FHP M009648 motor,	0.10	825	20300	18.7
plastic housing w/slant kit, plastic shutter,	0.15	815	18800	16.4
guard and discharge cone	0.20	800	16800	13.6
	0.25	783	14200	10.8