

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 97061 Series/Test: / Test Date: March 17, 1997 File Name: **Fan**Make: CanarmModel #: FG48HEDDSerial #: -Manufacturer: CanarmBlade Size: 47.9"Orifice Dia.: 48.9"**Blade Lau**Number: 3Shape: propellerMaterial: galvanized steelPitch: 22.7 deg.Clearance: 0.5"Hub Diameter: -**Shutter**Material: plastic/ metal frameNumber 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: fiberglassIntake Area: 54"x54.2"Discharge Area: 52" dia.Depth: 35": top
23" bottom**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

CANARM FG48HEDD

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 97061	0.00	838	22500	23.2
Fan description:	0.05	831	21300	20.8
48" direct drive, 1 hp FHP M009648 motor,	0.10	823	20100	18.5
fiberglass slant housing, plastic shutter,	0.15	812	18700	16.3
guard and discharge cone	0.20	798	16800	13.7
	0.25	782	14500	11.1