

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 95223 Series/Test: / Test Date: August 3, 1995 File Name: **Fan**Make: CanarmModel #: PLF20Serial #: -Manufacturer: CanarmBlade Size: 20"Orifice Dia.: 20.5"**Blade**Rotair
Number: 6Shape: propellerMaterial: plasticPitch: 42 deg.Clearance: .3"Hub Diameter: 4"**Shutter**Material: plasticNumber Doors: 10Number Rows: 1Door Length: 20.3"Location: intake**Other Attachments**Discharge cone 27.5" o.d., 20.5" i.d., 20" deep**Motor**Make: FHPModel #: M099701Serial #: -H.P.: 1/2Amps: 5.0/2.5Volts: 115/230RPM: 1625S.F.: 1.0Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 19.4"x19.5"Discharge Area: 20" dia.Depth: 28" top
23.5" bottom**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

CANARM PLF-20

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 95223	0.00	1670	4960	9.6
Fan description:	0.05	1667	4840	9.3
20" direct drive, 1/2 hp FHP MO99701	0.10	1665	4730	9.0
motor, plastic housing, plastic shutter,	0.15	1665	4580	8.6
guard and discharge cone	0.20	1663	4340	8.1
	0.25	1665	4080	7.6
	0.30	1666	3790	7.2