

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96273 Series/Test: / Test Date: October 21, 1996 File Name: **Fan**Make: CanarmModel #: PBF20 w/slant kit
& coneSerial #: -Manufacturer: CanarmBlade Size: 20" dia.Orifice Dia.: 20.6"**Blade**Number: 3Shape: propellerMaterial: polypropylenePitch: 47 deg.Clearance: 0.3"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 6Number Rows: 1Door Length: 24.3"Location: intake**Other Attachments**Discharge cone 14.3" deep, 28" o.d.**Motor**Make: MarathonModel #: 3WF48A17T27IDPSerial #: -H.P.: 1/2Amps: 5.4/2.7Volts: 115/230RPM: 1625S.F.: 1.0Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plastic/ssIntake Area: 23.6"x23.2"Discharge Area: 23" dia.Depth: 30.5" top
26" bottom**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

CANARM PBF20 w/slant kit, cone

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96273	0.00	1679	5700	12.7
Fan description:	0.05	1678	5500	12.1
20" direct drive, ½ hp Marathon	0.10	1677	5290	11.6
3WF48A17T271DP motor, plastic slant	0.15	1676	5010	11.0
housing, plastic shutter, guard and discharge cone	0.20	1677	4820	10.5
	0.25	1678	4540	10.0
	0.30	1684	4010	9.1
