

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96274 Series/Test: / Test Date: October 21, 1996 File Name: **Fan**Make: CanarmModel #: PBF20 w/slant kitSerial #: -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****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: wire meshSpacing: 2" x 2"Location: exhaust

TEST RESULTS

CANARM PBF20 w/slant kit

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96274	0.00	1677	5290	11.7
Fan description:	0.05	1676	5060	11.1
20" direct drive, ½ hp Marathon 3WF48A17T271DP	0.10	1676	4830	10.7
motor, plastic slant housing, plastic shutter	0.15	1677	4600	10.2
and guard	0.20	1679	4340	9.8
	0.25	1682	4010	9.2
	0.30	1683	3590	8.3