

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96281 Series/Test: / Test Date: October 22, 1996 File Name: **Fan**Make: CanarmModel #: PBF18Serial #: -Manufacturer: CanarmBlade Size: 18" dia.Orifice Dia.: 18.6"**Blade**Number: 3Shape: propellerMaterial: polypropylenePitch: 47 degreeClearance: 0.3"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 6Number Rows: 1Door Length: 22.4"Location: intake**Other Attachments**Discharge cone 14.5" deep, 25" o.d**Motor**Make: MarathonModel #: 3WC48A17T272APSerial #: -H.P.: 1/3Amps: 3.8/1.9Volts: 115/230RPM: 1625S.F.: 1.0Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 21.2"x21.5"Discharge Area: 20" dia.Depth: 30" top
27" bottom**Guards**Description: wireSpacing: 2" x 2"Location: exhaust

TEST RESULTS

CANARM PBF18 w/cone

	Static Pressure	Speed	Airflow	Efficiency
Test: 96281	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
	0.00	1671	4740	12.6
Fan description:	0.05	1670	4590	12.4
18" direct drive, 1/3 hp Marathon	0.10	1669	4430	11.8
3WC48A17T277AP motor, plastic housing,	0.15	1669	4240	11.2
plastic shutter, guard and discharge cone	0.20	1669	3950	10.3
	0.25	1668	3620	9.7
	0.30	1672	3150	8.4
