

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96263 Series/Test: / Test Date: October 19, 1996 File Name: **Fan**Make: CanarmModel #: PBF36 w/slant kit
and coneSerial #: -Manufacturer: CanarmBlade Size: 36"Orifice Dia.: 36.8"**Blade**Number: 3Shape: propellerMaterial: galv. steelPitch: -Clearance: 0.4"Hub Diameter: -**Shutter**Material: PlasticNumber Doors: 11 per rowNumber Rows: 2Door Length: 19.8"Location: intake**Other Attachments**Discharge cone 24.5" deep, 43.8" o.d.**Motor**Make: FHPModel #: M099838Serial #: -H.P.: 1/2Amps: 6.0/3.0Volts: 115/230RPM: 850S.F.: 1.15Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: Plastic/galvIntake Area: 40" x 40"Discharge Area: 38.5" o.d.Depth: 19"**Guards**Description: wire meshSpacing: 2" concentricLocation: exhaust

TEST RESULTS

CANARM PBF36 w/slant kit, cone

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96263	0.00	842	13220	24.8
Fan description:	0.05	832	12310	21.6
36" direct drive, ½ hp MOP MO99838	0.10	821	11290	18.3
motor, plastic slant housing, plastic shutter,	0.15	806	10060	15.2
guard and discharge cone	0.20	790	8350	11.8
	0.25	683	3470	4.0
