

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 95053 Series/Test: / Test Date: February 14, 1995 File Name: **Fan**Make: CanarmModel #: PLF36-PSerial #: -Manufacturer: CanarmBlade Size: 36"Orifice Dia.: 36.9"**Blade Lau 5@34"**Number: 4Shape: propellerMaterial: galv. steelPitch: 30 degreesClearance: .4"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 10Number Rows: 2Door Length: 18.3"Location: intake**Other Attachments**Cone**Motor**Make: DaytonModel #: 4K123Serial #: -H.P.: 1/2Amps: 5.0/ 2.5Volts: 115/208- 230RPM: 1725S.F.: 1.25Drive Pulley Dia.: 2.8"Axle Pulley Dia.: 9"Center Spacing: -**Housing**Material: plasticIntake Area: 38.5"x 39"Discharge Area: 36.9" dia.Depth: 29" top
26" bottom**Guards**Description: Painted wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

CANARM PLF36-P

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 95053	0.00	518	10590	22.0
Fan description:	0.05	515	9800	19.3
36" belt drive, 1/2 hp Dayton 4K123	0.10	515	8640	16.4
motor, plastic housing, plastic shutter,	0.15	515	4920	9.3
guard and discharge cone	0.20	512	3850	6.5
	0.25	508	2840	4.4
