

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96293 Series/Test: / Test Date: October 23, 1996 File Name: **Fan**Make: CanarmModel #: PLF12-DVDSerial #: -Manufacturer: CanarmBlade Size: 12"Orifice Dia.: 12.4"**Blade**Number: 3Shape: propellerMaterial: polypropylenePitch: 20 degreeClearance: 0.2"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 4Number Rows: 1Door Length: 16.6"Location: intake**Other Attachments**Varifan MVS-1 speed controller**Motor**Make: MagnetekModel #: JF1K023NSerial #: -H.P.: 1/6Amps: 1.9/1.0Volts: 115/230RPM: 3300S.F.: -Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 15" x 15.8"Discharge Area: 12.4" dia.Depth: 23.5" top
20.8" bottom**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

CANARM PLF12-DVD

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96293	0.00	3353	1368	8.9
Fan description:	0.05	3345	1323	8.5
12" direct drive, 1/6 hp Magnetek JF1K023N	0.10	3340	1264	7.9
motor, plastic housing, plastic shutter	0.15	3334	1177	7.2
and guard	0.20	3344	1026	6.4
	0.25	3337	954	5.9
	0.30	3330	818	4.9
