

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 95323 Series/Test: / Test Date: November 15, 1995 File Name: **Fan**Make: RaydotModel #: PMC-3611DDSerial #: -Manufacturer: RaydotBlade Size: 36" dia.Orifice Dia.: 36.5"**Blade**Number: 3Shape: propellerMaterial: galv./painted
steelPitch: -Clearance: 0.3"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 14 per rowNumber Rows: 2Door Length: 21.3"Location: intake**Other Attachments**Discharge cone 42" o.d., 24" deep**Motor**Make: MagnetekModel #: 8-184738-01Serial #: -H.P.: 1/2Amps: 2.3Volts: 230RPM: 850S.F.: 1.00Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 41.8"x41.8"Discharge Area: 36.5"Depth: 23" top
21.5" bottom**Guards**Description: wireSpacing: 1.3" concentricLocation: exhaust

TEST RESULTS

RAYDOT PMC-3611DD

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 95323	0.00	851	10980	24.8
Fan description:	0.05	846	10280	22.1
36" direct drive, 1/2 hp Magnetek 8-184738-01	0.10	841	9480	19.5
motor, fiberglass housing, plastic shutter, guard	0.15	837	8490	16.5
and discharge cone	0.20	832	7280	13.7
	0.25	826	5930	10.8
	0.30	816	4570	7.9
