

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 94390V Series/Test: / Test Date: December 28, 1994 File Name: **Fan**Make: Val
Model #: VAPMC-2465
Serial #: -
Manufacturer: -
Blade Size: 24"
Orifice Dia.: 24.5"**Blade**Number: 5
Shape: propeller
Material: plastic
Pitch: 45
Clearance: .3"
Hub Diameter: -**Shutter**Material: plastic
Number Doors: 10 per row
Number Rows: 2
Door Length: 13.8"
Location: intake**Other Attachments**discharge cone 22.7" deep, 30" o.d.**Motor**Make: Magnetek
Model #: 8-181980-01
Serial #: -
H.P.: 1/2
Amps: 1.6
Volts: 230
RPM: 1100S.F.: 1.0
Drive Pulley Dia.: direct
Axle Pulley Dia.: drive
Center Spacing: -**Housing**Material: plastic
Intake Area: 28.5"x28.5"
Discharge Area: 24.5" dia.
Depth: 18" top
15" bottom**Guards**Description: plastic coated
wire
Spacing: 1.5" concentric
Location: exhaust

TEST RESULTS

VAL VAPMC-2465

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94390V	0.00	1035	6490	17.6
Fan description:	0.05	1023	6060	15.8
24" direct drive, 1/2 hp Magnetek 8-181980	0.10	1017	5630	14.5
motor, plastic housing, plastic shutter,	0.15	1013	5140	13.1
guard and discharge cone	0.20	1018	4410	11.4
	0.25	1024	2500	6.7
	0.30	990	1750	4.3
