

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 94388V Series/Test: / Test Date: December 28, 1994 File Name: **Fan**Make: Val
Model #: VAPMC-2463 A
Serial #: -
Manufacturer: -
Blade Size: 24"
Orifice Dia.: 24.5"**Blade**Number: 4
Shape: propeller
Material: aluminum
Pitch: -
Clearance: .3"
Hub Diameter: -**Shutter**Material: aluminum
Number Doors: 6
Number Rows: 1
Door Length: 25.8"
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-2463A

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94388V	0.00	1073	6240	19.4
Fan description:	0.05	1062	5860	17.5
24" direct drive, 1/2 hp Magnetek 8-181980	0.10	1055	5460	15.8
motor, plastic housing, aluminum shutter,	0.15	1047	5060	14.3
guard and discharge cone	0.20	1043	4550	12.6
	0.25	1049	3780	10.7
	0.30	1050	2150	6.1
