

Bioenvironmental and Structural Systems Lab

Fan Description Form

Project Number: 91224V Series/Test: /

Test Date: 12/26/91 File Name: _____

Fan

Make: Val

Model #: VAFWL3611

Serial #: _____

Manufacturer: -

Blade Size: 36"

Orifice Dia.: 36.8"

Blade

Number: 3

Shape: propeller

Material: galvanized steel

Pitch:

Clearance: .4"

Hub Diameter: --

Shutter

Material: plastic

Number Doors: 13 per row

Number Rows: 2

Door Length: 18.2"

Location: intake

Other Attachments

Motor

Make: Magnetek

Part # 8-181283-01

Serial #: _____

H.P.: 1/2

Amps: 2.7

Volts: 230

RPM: 850

S.F.: 1

Drive Pulley Dia.: direct

Axle Pulley Dia.: drive

Center Spacing: --

Housing

Material: fiberglass

Intake Area: 36" x 36"

Discharge Area: 35.8"

Depth: $\frac{31.5'' \text{ top}}{28.5'' \text{ bottom}}$

Guards

Description: platic coated
wire

Spacing: 1.5" concentric

Location: exhaust

TEST RESULTS

VAL VAFW-3611DD

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 91224V	0.00	850	9840	20.2
Fan description:	0.05	846	9140	18.0
36" direct drive, 1/2 hp Magnetek 8-181283-01	0.10	842	8250	15.5
motor, fiberglass housing, plastic shutter	0.15	838	7280	13.2
and guard	0.20	832	6160	10.7
	0.25	822	4920	8.0
