

Bioenvironmental and Structural Systems Lab

Fan Description Form

Project Number: 93011 Series/Test: /

Test Date: 2-3-93 File Name:

Fan

Make: Dayton

Model #: 3F528

Serial #:

Manufacturer: Lenexa

Blade Size: 36"

Orifice Dia.: 36.5"

Blade

Number: 2

Shape: prop

Material: galv. steel

Pitch:

Clearance: .3"

Hub Diameter:

Shutter

Material: aluminum

Number Doors: 9 per row

Number Rows: 2

Door Length: 17.75"

Location: exhaust

Other Attachments

Motor

Make: Dayton

Ref. # : K55HXJRE3227

Serial #:

H.P.: 1/2

Amps: 6.0/3.0

Volts: 115/230

RPM: 850

S.F.: 1.25

Drive Pulley Dia.: direct

Axle Pulley Dia.: direct

Center Spacing: direct

Housing

Material: 3/8" chip
board

Intake Area: 40"x 40"

Discharge Area: 36" diam.

Depth: 15"

Guards

Description: welded wire

Spacing: 1"x 2"

Location: intake

TEST RESULTS

DAYTON 3F528

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93011	0.00	867	9580	20.8
Fan description:	0.05	864	8820	18.4
36" direct drive, 1/2 hp Dayton	0.10	861	7940	15.8
K55HXJRE3227 motor, wood housing,	0.15	858	6880	13.1
aluminum shutter and guard	0.20	856	5290	9.9
	0.25	850	3800	6.7
	0.30	840	2460	4.0
