

Bioenvironmental and Structural Systems Lab

Fan Description Form

Project Number: 90146 Series/Test: /

Test Date: Nov. 8, 1990 File Name:

Fan

Make: Dayton

Model #: 3C610B

Serial #:

Manufacturer: Dayton

Blade Size: 48"

Orifice Dia.: 48.8"

Blade

Number: 4

Shape: Propeller

Material: Galvanized steel

Pitch: na

Clearance: 0.4"

Hub Diameter: 8"

Shutter

Material: Aluminum

Number Doors: 12

Number Rows: 2

Door Length: 23.8"

Location: exhaust

Other Attachments

Motor

Make: Dayton

Model #: 4K124

Serial #: mfr ref R608007

H.P.: 1

Amps: 10.3/5.15

Volts: 115/230

RPM: 1725

S.F.: 1.0

Drive Pulley Dia.: 3.3"

Axle Pulley Dia.: 11"

Center Spacing: 13.5"

Housing

Material: chipboard

Intake Area: 54" x 54"

Discharge Area: 47.3"x48"

Depth: 21"

Guards

Description: wire mesh

Spacing: 1" x 2"

Location: Intake

TEST RESULTS

DAYTON 3C610B

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 90146	0.00	498	19400	18.7
Fan description:	0.05	-	18400	17.2
48" belt drive, 1 hp Dayton 4K124	0.10	497	17200	15.5
motor, wood housing, aluminum shutter	0.15	-	16000	14.0
and guard	0.20	495	14600	12.5
