

Bioenvironmental and Structural Systems Lab

Fan Description Form

Project Number: 90147 Series/Test: /

Test Date: Nov. 8, 1990 File Name: _____

Fan

Make: Dayton

Model #: 3C675

Serial #:

Manufacturer: Dayton

Blade Size: 36"

Orifice Dia.: 36.5"

Blade

Number : 4

Shape: Propeller

Material: Galv. steel

Pitch: na

Clearance: 0.3"

Hub Diameter: na

Shutter

Material: Aluminum

Number Doors: 9

Number Rows: 1

Door Length: 35.8"

Location: Exhaust

Other Attachments

Motor

Make: Dayton

Model #: 4M250

Serial #: mfrref K55HXJRE-3227

H.P.: 1/2

Amps: 6.4/3.2

Volts: 115/230

RPM: 825

S.F.: 1.0

Drive Pulley Dia.: na

Axle Pulley Dia.: na

Center Spacing: na

Housing

Material: chip board

Intake Area: 40"x40"

Discharge Area: 35"x36"

Depth: 19"

Guards

Description: wire mesh

Spacing: 1" x 2"

Location: Intake

TEST RESULTS

DAYTON 3C675

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 90147	0.00	859	10200	19.0
Fan description:	0.05	-	9600	16.9
36" direct drive, 1/2 hp Dayton K55HXJRE3227	0.10	850	8900	15.0
motor, wood housing, aluminum shutter	0.15	847	8200	13.2
and guard	0.20	843	7300	11.3
