

University of Illinois Department of
Agricultural Engineering
BESS Lab

Project Number: 95131

Test Date: May 15, 1995

Fan

Make: Multifan

Model #: P3H6E63E

Manufacturer: Multifan

Blade Size: 24.7"

Orifice Dia.: 25.1"

Blade

Number: 3

Shape: propeller

Material: plastic

Pitch: -

Clearance: 0.2"

Shutter

Material: plastic

of Doors: 10 per row

of Columns: 2

Door Length: 15.4"

Location: intake

Other Attachments:

Wind hood 34" deep

Motor

Make: Vostermans

Model #: 6E63-3PP-30

H.P.: 0.33 kW

Amps: 1.5

Volts: 240

RPM: 1000

S.F.: -

Drive

Drive Pulley Dia.: direct

Axle Pulley Dia.: drive

Housing

Material: plastic

Intake Area: 33" x 33"

Discharge Area: 25.1" dia.

Depth: 26.7" top
19.5" bottom

Guards

Description: wire

Spacing: 1.4" concentric

Location: exhaust

Test Results

MULTIFAN P3H6E63E	Static Pressure	Speed	Airflow	Efficiency
Test: 95131	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
	0.00	1012	4870	13.4
Fan description:	0.05	1005	4520	12.2
24" direct drive, 0.33 kW 6E63-3PP-30 Vostermans	0.10	1000	4160	11.0
motor, plastic housing w/wind hood, plastic shutter	0.15	997	3740	9.9
and guard	0.20	996	3340	9.0
	0.25	995	2820	7.5
	0.30	1003	2210	6.0
