University of Illinois **Department of Agricultural Engineering**

Bioenvironmental and Structural Systems Lab
Fan Description Form

Project Number: 93407 Series/Test: ____/____

Test Date: November 9 , 1993 File Name: _____

Fan

Make: Miller Control & Mfg.

Model #: 9S001803

Serial #: -

Manufacturer: MCM

Blade Size: 18.0"

Orifice Dia.: 18.4"

Blade Brookside

Number: 4

Shape: propeller

Material: aluminum

Pitch: -

Clearance: .2"

Hub Diameter: -

Shutter

Material: Aluminum

Number Doors: 5

Number Rows: 1

Door Length: 17.8"

Location: exhaust

Other Attachments

Motor

Make: Magnetek

Model #: HE3G126N

Serial #: -

H.P.: 1/4

Amps: 1.6

Volts: 208-230

RPM: 1075

S.F.: -

Drive Pulley Dia.: direct

Axle Pulley Dia.: drive

Center Spacing: -

Housing

Material: fiberglass

Intake Area: 21.8"x21.8"

Discharge Area: _____

Depth: 6"

Guards

Description: welded wire

Spacing: 1" x 2"

Location: intake

TEST RESULTS

MILLER CONTROL & MFG. 9S001803

Test: 93407

Fan description:
18" direct drive, 1/4 hp Magnetek HE3G126N motor, fiberglass housing, aluminum shutter and guard

Static Pressure in. water	Speed rpm	Airflow cfm	Efficiency cfm/Watt
0.00	1120	2930	11.0
0.05	1114	2760	10.1
0.10	1111	2540	9.2
0.15	1109	2290	8.1
0.20	1111	1940	6.9
0.25	1111	1340	4.8