

**University of Illinois Department of
Agricultural Engineering
BESS Lab**

Project Number: 98252

Test Date: November 12, 1998

Fan

Make: Schaefer

Model #: FM3600-2G

Manufacturer: Schaefer

Blade Size: 36"

Orifice Dia.: 36.5"

Blade

Number: 4

Shape: propeller

Material: galvanized steel

Pitch: -

Clearance: 0.3"

Shutter

Material: aluminum

of Doors: 11 per column

of Columns: 2

Door Length: 20.7"

Location: intake

Other Attachments:

Motor

Make: Magnetek

Model #: CS184

H.P.: ½ - .14

Amps: 2.3 - 1.6

Volts: 230

RPM: 1725 - 1140

S.F.: 1.0

Drive

Drive Pulley Dia. 2.8" o.d.

Axle Pulley Dia.: 9.4" o.d.

Housing

Material: fiberglass

Intake Area: 42.7" x 43.3"

Discharge Area: 36.4"

Depth: 33" top
28.5" bottom

Guards

Description: wire

Spacing: 1" concentric

Location: exhaust

TEST RESULTS

SCHAEFER FM3600-2G

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 98252	0.00	495	10050	18.8
Fan description:	0.05	494	9230	16.7
36" belt drive, ½ - .14 hp Magnetek CS184	0.10	494	8230	14.6
2 speed motor, fiberglass housing, aluminum shutter	0.15	494	5460	9.7
and guard	0.20	490	4320	6.8
	0.25	486	3460	4.9
*2 speed motor - high speed performance				