

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

Project Number: 97279

Test Date: October 28, 1997

Fan

Make: Canarm

Model #: FG36

Manufacturer: Canarm

Blade Size: 36"

Orifice Dia.: 36.8"

Blade

Number: 3

Shape: propeller

Material: galv. Steel

Pitch: 26 deg.

Clearance: 0.4"

Shutter

Material: plastic

of Doors: 11 per

of Columns: 2

Door Length: 20"

Location: intake

Other Attachments:

discharge cone 44" o.d., 22" deep

Motor

Make: FHP

Model #: MO99838

H.P.: 1/2

Amps: 6.0/3.0

Volts: 115/230

RPM: 850

S.F.: 1.15

Drive

Drive Pulley Dia.: direct

Axle Pulley Dia.: drive

Housing

Material: fiberglass

Intake Area: 42.3" x 42.3"

Discharge Area: 36.8" dia.

Depth: 32" top
23" bottom

Guards

Description: wire

Spacing: 2" concentric

Location: exhaust

TEST RESULTS

CANARM FG36

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 97279	0.00	841	13080	24.0
Fan description:	0.05	830	12190	20.7
36" direct drive, ½ hp FHP M099838 motor,	0.10	820	11220	18.0
fiberglass housing, plastic shutter, guard	0.15	804	10010	15.3
and discharge cone	0.20	783	8570	12.2
	0.25	766	6350	8.8
