

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

Project Number: 00047

Test Date: April 3, 2000

Fan

Make: Exafan

Model #: EU-56

Manufacturer: Exafan

Blade Size: 22.4" dia.

Orifice Dia.: 22.7"

Blade

Number: 8

Shape: propeller

Material: plastic

Pitch: -

Clearance: .2"

Shutter

Material: plastic

of Doors: 14 / column

of Columns: 2

Door Length: 14"

Location: intake

Other Attachments:

discharge cone 24.8" deep, 22.8" i.d, 32" o.d.

Motor

Make: Agratec S.L.

Type #: EU-56

H.P.: .73

Amps: 2.6

Volts: 230

RPM: -

S.F.: -

Drive

Drive Pulley Dia. Direct

Axle Pulley Dia.: drive

Housing

Material: plastic

Intake Area: 30.5" x 30.5"

Discharge Area: 22.8" dia.

Depth: 20"

Guards

Description: wire

Spacing: 2.3"

Location: exhaust

TEST RESULTS

EXAFAN EU56 w/ cone

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 00047	0.00	1647	5660	10.8
Fan description:	0.05	1639	5490	10.1
22" direct drive, 0.73 hp Agratec motor,	0.10	1632	5350	9.7
plastic housing, plastic shutter,	0.15	1625	5210	9.2
guard and discharge cone	0.20	1616	5050	8.6
	0.25	1608	4880	8.1
	0.30	1603	4700	7.6
