

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

Project Number: 00046

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:

wind hood 38" deep

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/ hood

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 00046	0.00	1626	5210	9.0
Fan description:	0.05	1618	5050	8.6
22" direct drive, 0.73 hp Agratec motor,	0.10	1610	4880	8.0
plastic housing, plastic shutter,	0.15	1601	4730	7.7
guard and wind hood	0.20	1596	4550	7.3
	0.25	1587	4390	6.9
	0.30	1581	4220	6.5