

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

Project Number: 00036

Test Date: March 31, 2000

Fan

Make: Exafan

Model #: EU-40

Manufacturer: Exafan

Blade Size: 15.7" dia.

Orifice Dia.: 16.0"

Blade

Number: 6

Shape: propeller

Material: plastic

Pitch: -

Clearance: .2"

Shutter

Material: plastic

of Doors: 10

of Columns: 1

Door Length: 20.4"

Location: intake

Other Attachments:

Wind hood 30" deep

Motor

Make: Agratec S.L.

Type #: EU-40

H.P.: .33

Amps: 1.4

Volts: 230

RPM: -

S.F.: -

Drive

Drive Pulley Dia. Direct

Axle Pulley Dia.: drive

Housing

Material: plastic

Intake Area: 21.5" x 21.5"

Discharge Area: 16.7" dia.

Depth: 20"

Guards

Description: wire

Spacing: 2.3"

Location: exhaust

TEST RESULTS

EXAFAN EU40 w/ hood

	Static Pressure	Speed	Airflow	Efficiency
Test: 00036	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
	0.00	1695	2700	9.2
Fan description:	0.05	1690	2610	8.7
16" direct drive, 0.33 hp Agratec motor,	0.10	1688	2530	8.3
plastic housing, plastic shutter,	0.15	1684	2460	7.9
guard and wind hood	0.20	1680	2360	7.5
	0.25	1676	2260	6.9
	0.30	1671	2140	6.5