

University of Illinois Department of  
Agricultural Engineering  
BESS Lab

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**Project Number:** 00030

**Test Date:** March 31, 2000

**Fan**

*Make:* Exafan

*Model #:* EU-35

*Manufacturer:* Exafan

*Blade Size:* 14.3" dia.

*Orifice Dia.:* 14.6"

**Blade**

*Number:* 6

*Shape:* propeller

*Material:* plastic

*Pitch:* -

*Clearance:* .2"

**Shutter**

*Material:* plastic

*# of Doors:* 9

*# of Columns:* 1

*Door Length:* 18.3"

*Location:* intake

**Other Attachments:**

Wind hood 25" deep,

**Motor**

*Make:* Agratec S.L.

*Type #:* EU-35

*H.P.:* .25

*Amps:* 0.9

*Volts:* 230

*RPM:* -

*S.F.:* -

**Drive**

*Drive Pulley Dia.* Direct

*Axle Pulley Dia.:* drive

**Housing**

*Material:* plastic

*Intake Area:* 19.5" x 19.5"

*Discharge Area:* 14.9" dia.

*Depth:* 20"

**Guards**

*Description:* wire

*Spacing:* 2.3"

*Location:* exhaust

TEST RESULTS

EXAFAN EU35 w/ hood

Test: 00030

Fan description:  
14" direct drive, 1/4 hp Agratec motor,  
plastic housing, plastic shutter,  
guard and wind hood

Static Pressure	Speed	Airflow	Efficiency
<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
0.00	1683	1920	8.1
0.05	1680	1880	7.8
0.10	1675	1810	7.4
0.15	1671	1740	7.0
0.20	1668	1670	6.7
0.25	1665	1580	6.2
0.30	1664	1490	5.9