

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

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**Project Number:** 95184

**Test Date:** July 13, 1995

**Fan**

*Make:* Del-Air

*Model #:* NW-10K

*Manufacturer:* Del-Air

*Blade Size:* 36.5"

*Orifice Dia.:* 37"

**Blade**

*Number:* 3

*Shape:* propeller

*Material:* plastic

*Pitch:* -

*Clearance:* 0.3"

**Shutter - butterfly damper**

*Material:* plastic

*# of Doors:* 2

*# of Columns:* -

*Door Length:* -

*Location:* exhaust

**Other Attachments:**

Weather hood

**Motor**

*Make:* Fasco

*Model #:* 7128-0348

*H.P.:* 1/3

*Amps:* 1.8

*Volts:* 208/230

*RPM:* 850

*S.F.:* -

**Drive**

*Drive Pulley Dia.* Direct

*Axle Pulley Dia.:* Drive

**Housing**

*Material:* plastic

*Intake Area:* 42" dia.

*Discharge Area:* 42" dia.

*Depth:* 37"

**Guards**

*Description:* stainless steel

*Spacing:* 2" concentric

*Location:* intake

## TEST RESULTS

### DEL-AIR NW10K

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 95184	0.00	742	10020	19.8
Fan description:	0.05	737	9130	18.1
36" direct drive, 1/3 hp Fasco 7128-0348	0.10	735	8050	15.9
motor, plastic housing, plastic butterfly damper,	0.15	733	6890	13.5
guard and wind hood	0.20	738	5060	10.0
	0.25	711	3070	5.8

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