University of Illinois Department of Agricultural Engineering BESS Lab

Number:

Shutter

6

Project Number. 01115 Test Date:

Fan Motor

American Coolair Make: Make: **AO Smith**

May 23, 2001

galvanized steel

wire

MNCFC52L Model #: Model #: 327P775

Manufacturer: American Coolair *H.P.*: 1

Blade Size: 52.8" 11/5.5 Amps:

Orifice Dia.: 53.3" Volts: 115/230

RPM: 1725 Blade

S.F.: 1.30

Shape: propeller

Material: steel Drive Pulley Dia. 3.4" o.d.

Browning AK34

Drive

Pitch: Axle Pulley Dia.: 15.6" o.d.

Clearance: 0.3" Housing

Material:

Intake Area: 56.3" x 56.8" Material: plastic

of Doors: 16 per column Discharge Area: 53.3" dia.

of Columns: 3 Depth: 34.5" top 25.3" bottom

Door Length: 17.1" Guards

Description: Location: intake

2" concentric Spacing:

Other Attachments:

belt tensioner Location: exhaust discharge cone 32.5" deep, 53.3" i.d., 63.5" o.d.

TEST RESULTS

AMERICAN COOLAIR MNCFC52L

Efficiency
fm/Watt
23.0
20.4
17.9
15.4
12.0
8.5
4.8