University of Illinois Department of Agricultural Engineering BESS Lab

Number:

Location:

intake

6

Project Number: 01242 Test Date: August 23, 2001

Fan Motor

Make: American Coolair Make: AO Smith

Model #: MNCFB48L Model #: 327P775

Manufacturer: American Coolair H.P.: 1

Blade Size: 49.2" Amps: 11.0/5.5

Orifice Dia.: 49.5" *Volts*: 115/208-230

Blade *RPM*: 1725

S.F.: 1.3

Shape: propeller

Material: painted steel Drive Pulley Dia. 3.8"

AK39

Pitch: - Axle Pulley Dia.: 15.5" o.d.

Clearance: 0.2" **Housing**Material: galvanized steel

Shutter w/ bell mouth inlet

Material: plastic Intake Area: 56" x 57"

of Doors: 16 Discharge Area: 54.5" x 55"

of Columns: 3 Depth: 30.3" top

21.3" bottom

Drive

Door Length: 17.1" Guards

Description: wire

Spacing: 2" x 2"

Other Attachments:

Belt tensioner Location: exhaust

TEST RESULTS

AMERICAN COOLAIR MNCFB48L

| /Watt |
|-------|
| 9.9 |
| 8.0 |
| 5.3 |
| 4.6 |
| 2.5 |
| 0.3 |
| 7.4 |
| 4 |