

University of Illinois Department of
Agricultural Engineering
BEES Lab

Project Number: 96262bd

Test Date: October 19, 1996

Fan

Make: Big Dutchman

Model #: 60-36-5402

Manufacturer: Canarm

Blade Size: 36"

Orifice Dia.: 36.8"

Blade

Number: 3

Shape: propeller

Material: galv. steel

Pitch: -

Clearance: 0.4"

Shutter

Material: Plastic

of Doors: 11 per row

of Columns: 2

Door Length: 19.8"

Location: intake

Other Attachments:

Motor

Make: FHP

Model #: M099838

H.P.: 1/2

Amps: 6.0/3.0

Volts: 115/230

RPM: 850

S.F.: 1.15

Drive

Drive Pulley Dia. direct

Axle Pulley Dia.: drive

Housing

Material: plastic/galv

Intake Area: 40" x 40"

Discharge Area: 38.5" o.d.

Depth: 19"

Guards

Description: wire mesh

Spacing: 2" x 2"

Location: exhaust

Test Results

BIG DUTCHMAN 60-36-5402

Test: 96262bd

Fan description:

36" direct drive, ½ hp FHP M099838 motor,
plastic housing w/slant kit, plastic shutter
and guard

Static Pressure

in. water

0.00

0.05

0.10

0.15

0.20

Speed

rpm

836

827

817

805

783

Airflow

cfm

12,680

11,830

10,920

9,850

7,960

Efficiency

cfm/Watt

22.4

19.8

17.1

14.7

10.9