University of Illinois Department of Agricultural Engineering BESS Lab

Number:

Clearance:

3

0.3"

Project Number: 99064 Test Date: April 16, 1999

Fan Motor

Make: Multifan Make: Magnetek

Model #: MF50P-C-ME Model #: C782

Manufacturer: Multifan H.P.: 1

Blade Size: 50" *Amps*: 4.3/8.6

Orifice Dia.: 50.6" *Volts*: 230/115

Blade *RPM*: 1725

S.F.: 1.40

Shape: propeller

Material: plastic Drive Pulley Dia. 3.8" o.d.

Drive

Housing *Material*:

plastic

Pitch: Axle Pulley Dia.: 11.9" o.d.

Shutter

s.s. frame

Material: clear plastic Intake Area: 57" x 56"

of Doors: 17 per column Discharge Area: 50.6" dia.

of Columns: 3 Depth: 14"

Door Length: 18.35" Guards

Description: wire Location:

Spacing: 2"

Other Attachments: discharge cone 28" deep, 50.6" i.d., 67" o.d. Location: exhaust

TEST RESULTS

MULTIFAN MF50P-C-ME

	Static Pressure	Speed	Airflow	Efficiency
Test: 99064	in. water	<u>rpm</u>	<u>cfm</u>	cfm/Watt
	0.00	555	27,100	25.5
Fan description:	0.05	553	24,900	22.4
50" belt drive, 1 hp Magnetek C782	0.10	551	22,800	19.8
motor, plastic housing, plastic shutter,	0.15	550	18,900	16.1
guard and discharge cone	0.20	551	15,700	13.6
	0.25	553	10,800	10.0