

University of Illinois
Department of Agricultural Engineering
Bioenvironmental and Structural Systems Lab
Fan Description Form

Project Number: 94284 Series/Test: ___/___

Test Date: September 13, 1994 File Name:

Fan

Make: Airstream

Model #: MB-8

Serial #: -

Manufacturer: GSI

Blade Size: 7.5"

Orifice Dia.: 8"

Blade

Number: 6

Shape: propeller

Material: fiberglass

Pitch: -

Clearance: .2"

Hub Diameter: -

Shutter

Material: plastic

Number Doors: 2

Number Rows: 1

Door Length: 7.3"

Location: intake

Other Attachments

Motor

Make: Airstream

Model #: 8U855

Serial #: -

H.P.: 1/6

Amps: 1.0-.9

Volts: 208-230

RPM: 3300

S.F.: 1.0

Drive Pulley Dia.: direct

Axle Pulley Dia.: drive

Center Spacing: -

Housing

Material: fiberglass

Intake Area: 8.5" x 8.5"

Discharge Area: 7.9" dia.

Depth: 17.5" top
13" bottom

Guards

Description: wire

Spacing: 1" concentric

Location: exhaust

TEST RESULTS

AIRSTREAM MB-8

Test: 94284

Fan description:

8" direct drive, 1/6 hp Airstream 8U855
motor, fiberglass housing, plastic shutter,
and guard

Static Pressure	Speed	Airflow	Efficiency
<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
0.00	3548	340	5.3
0.05	3548	260	4.2
0.10	3543	240	3.6
0.15	3539	220	3.2
0.20	3534	200	2.8
0.25	3528	190	2.5
0.30	3524	170	2.3