

University of Illinois Department of
Agricultural Engineering
BESS Lab

Project Number: 02421

Test Date: October 24, 2002

Fan

Make: BSM Agri

Model #: 719-118734-1

Manufacturer: BSM Agri

Blade Size: 18"

Orifice Dia.: 18.9"

Blade

Number: 3

Shape: propeller

Material: plastic

Pitch: -

Clearance: 0.5"

Shutter

Material: plastic

of Doors: 7

of Columns: 1

Door Length: 22.5"

Location: intake

Other Attachments:

Motor

Make: FHP

Model #: P1168F

H.P.: 1/3

Amps: 3.6/1.8

Volts: 115/230

RPM: 1630

S.F.: 1.0

Drive

Drive Pulley Dia. Direct

Axle Pulley Dia.: drive

Housing

Material: fiberglass

Intake Area: 21.5" x 21.5"

Discharge Area: 22" dia.

Depth: 30" top
25" bottom

Guards

Description: wire

Spacing: 2" concentric

Location: exhaust

Test Results

BSM AGRI 719-118734-1

Test: 02421

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
	0.00	1660	3,440	10.3
Fan description:	0.05	1659	3,210	9.8
18" direct drive, 1/3 hp FHP P1168F motor,	0.10	1660	2,990	9.1
fiberglass housing, plastic shutter and guard	0.15	1664	2,800	8.6
	0.20	1664	2,710	8.3
	0.25	1686	1,940	6.8
	0.30	1678	1,360	4.5