

**University of Illinois Department of
Agricultural Engineering
BESS Lab**

Project Number:01326

Test Date: November 5, 2001

Fan

Make: Chore-Time

Model #: 46868-4822

Manufacturer: CTB Inc.

Blade Size: 48"

Orifice Dia.: 48.7"

Blade

Number: 3

Shape: propeller

Material: galvanized steel

Pitch: -

Clearance: 0.4"

Shutter

Material: plastic

of Doors: 15 per column

of Columns: 2

Door Length: 25.9"

Location: intake

Other Attachments:

Discharge cone 24.4" deep, 48.7" i.d., 57.8" o.d.

Motor

Make: GE

Model #: 5KCR49UN0462AT

H.P.: 1

Amps: 4.4/5.4

Volts: 230 60/50 hz

RPM: 1725/1425

S.F.: 1.40

Drive

Drive Pulley Dia. 3.0" o.d.
AK30

Axle Pulley Dia.: 9.3" o.d.
AK94

Housing

Material: galvanized steel

Intake Area: 54.3" x 54.6"

Discharge Area: 48.7" dia.

Depth: 33" top
21" bottom

Guards

Description: wire

Spacing: 1" x 2"

Location: exhaust

TEST RESULTS

CHORE-TIME 46868-4822

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 01326	0.00	556	21,400	26.8
Fan description:	0.05	555	20,400	24.1
48" belt drive, 1 hp GE 5KCR49UN0462AT	0.10	554	19,000	21.5
motor, galvanized steel slant housing,	0.15	553	17,600	19.0
plastic shutter, guard and discharge cone	0.20	552	15,900	16.3
	0.25	551	13,500	13.3
	0.30	550	10,800	10.3
