

Bioenvironmental and Structural Systems Lab

Fan Description Form

Project Number: 93023 Series/Test: /

Test Date: 2-6-93 File Name:

Fan

Make: Am. Coolair

Model #: NFB/CBL36

Serial #: 110692M556460

Manufacturer: Am. Coolair

Blade Size: 36.8"

Orifice Dia.: 37.3"

Blade

Number: 6

Shape: prop

Material: steel

Pitch:

Clearance: .3"

Hub Diameter: 13"

Shutter

Material: aluminum

Number Doors: 13

Number Rows: 1

Door Length: 38.5"

Location: intake

Other Attachments

Motor

Make: G.E.

Model #: 5KHC390N9220X

Serial #:

H.P.: 1/2

Amps: 5.2/2.6

Volts: 115/230

RPM: 1725

S.F.: 1.3

Drive Pulley Dia.: IVL40

1.5 turns

Axle Pulley Dia.: 13"

Center Spacing:

Housing

Material: Galv. steel

Intake Area: 40.3"x 39.5"

Discharge Area: 43"x 42.3"

Depth: 28" top

21" bottom

Guards

Description: welded wire

Spacing: 1"x 2"

Location: exhaust

TEST RESULTS

AMERICAN COOLAIR NBF/CBL36

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93023	0.00	461	11190	21.9
Fan description:	0.05	460	10420	19.6
36" belt drive, 1/2 hp GE 5KHC39QN9220X	0.10	460	9470	17.2
motor, galvanized steel slant housing,	0.15	459	8260	14.3
aluminum shutter and guard	0.20	455	4100	6.2
	0.25	453	3050	4.5
