

**Bioenvironmental and Structural Systems Lab
Fan Description Form**Project Number: 93031 Series/Test: / Test Date: 2-6-93 File Name: **Fan**Make: Am. Coolair
Model #: NCF36
Serial #:
Manufacturer: Am. Coolair
Blade Size: 36.8"
Orifice Dia.: 37.3"**Blade**Number: 6
Shape: prop
Material: galv. steel
Pitch:
Clearance: .3"
Hub Diameter: 13"**Shutter**Material: aluminum
Number Doors: 13
Number Rows: 1
Door Length: 38.5"
Location: intake**Other Attachments**Discharge cone 24" depth, 44" o.d., 37.3" i.d.**Motor**Make: A. O. Smith
Model #: G56A03A66
Serial #:
H.P.: 1/2
Amps: 4.8/2.4
Volts: 115/208-230
RPM: 1725-1425
S.F.: 1.3
Drive Pulley Dia.: 3.9"
Axle Pulley Dia.: 13"
Center Spacing: **Housing**Material: galv. steel
Intake Area: 40.3"x 39.5"
Discharge Area: 44" diam.
Depth: 28" top
21" bottom**Guards**Description: wire
Spacing: 2" concentric
Location: exhaust

TEST RESULTS

AMERICAN COOLAIR NCF36

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93031	0.00	448	11760	23.7
Fan description:	0.05	447	10870	21.2
36" belt drive, 1/2 hp A.O. Smith G56A03A66	0.10	447	9750	18.6
motor, galvanized steel slant housing,	0.15	446	8550	15.8
aluminum shutter, guard and discharge cone	0.20	445	6110	10.9
	0.25	442	2680	4.2
