

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 93021 Series/Test: / Test Date: 2-6-93 File Name: **Fan**Make: Am. CoolairModel #: NFB/CBL36Serial #: 110692M556460Manufacturer: Am. CoolairBlade Size: 36.8"Orifice Dia.: 37.3"**Blade**Number: 6Shape: propMaterial: steelPitch: Clearance: .3"Hub Diameter: 13"**Shutter**Material: aluminumNumber Doors: 13Number Rows: 1Door Length: 38.5"Location: intake**Other Attachments**Discharge cone 24" depth, 44" o.d., 37.3" i.d.**Motor**Make: A.O. SmithModel #: G56A03A66Serial #: H.P.: 1/2Amps: 4.8/2.4Volts: 115/208-230RPM: 1725-1425S.F.: 1.3Drive Pulley Dia.: 3.9"Axle Pulley Dia.: 13"Center Spacing: **Housing**Material: Galv. steelIntake Area: 40.3"x 39.5"Discharge Area: 44" diam.Depth: 28" top
21" bottom**Guards**Description: wireSpacing: 2" concentricLocation: 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: 93021	0.00	488	12740	23.2
Fan description:	0.05	487	11960	20.6
36" belt drive, 1/2 hp A.O. Smith G56A03A66	0.10	485	10970	18.2
motor, galvanized steel slant housing,	0.15	484	9900	15.8
aluminum shutter, guard and discharge cone	0.20	484	8460	13.1
	0.25	478	3830	5.0
