

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 93020 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: EmersonModel #: R63ZZDD-146Serial #: H.P.: 1/2Amps: 4.8/2.4Volts: 115/230RPM: 1725S.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: 93020	0.00	487	12660	22.4
Fan description:	0.05	485	11920	20.1
36" belt drive, 1/2 hp Emerson R63ZZDD-146	0.10	484	10930	17.6
motor. galvanized steel slant housing,	0.15	483	9840	15.3
aluminum shutter, guard and discharge cone	0.20	482	8570	13.0
	0.25	475	3540	4.5
