

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 93022 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: G.E.Model #: 5KHC39QN9220XSerial #: H.P.: 1/2Amps: 5.2/2.6Volts: 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: 93022	0.00	488	12730	22.9
Fan description:	0.05	487	11960	20.6
36" belt drive, 1/2 hp GE 5KHC39QN9220X	0.10	486	10970	18.0
motor, galvanized steel slant housing,	0.15	484	9970	15.9
aluminum shutter, guard and discharge cone	0.20	483	8640	13.3
	0.25	478	4110	5.6
