

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 93029 Series/Test: / Test Date: 2-6-93 File Name: **Fan**Make: Am. CoolairModel #: NCF36Serial #: Manufacturer: Am. CoolairBlade Size: 36.8"Orifice Dia.: 37.3"**Blade**Number: 6Shape: propMaterial: galv. 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 NCF36

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 93029	0.00	448	11750	23.5
Fan description:	0.05	447	10890	21.1
36" belt drive, 1/2 hp GE 5KHC39QN9220X	0.10	447	9790	18.4
motor, galvanized steel slant housing,	0.15	447	8540	15.7
aluminum shutter guard and discharge cone	0.20	446	6350	11.6
	0.25	442	2350	3.6
