

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 93027 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****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: welded wireSpacing: 1"x 2"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: 93027	0.00	448	10550	19.8
Fan description:	0.05	447	9750	17.9
36" belt drive, 1/2 hp Emerson R63ZZDD-146	0.10	447	8760	15.9
motor, galvanized steel slant housing,	0.15	446	7590	13.3
aluminum shutter and guard	0.20	442	4090	6.3
	0.25	441	2980	4.5
