

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 95286 Series/Test: / Test Date: October 24, 1995 File Name: **Fan**Make: AcmeModel #: BDR36G-ASerial #: -Manufacturer: AcmeBlade Size: 36"Orifice Dia.: 36.5"**Blade**Number: 4Shape: propellerMaterial: galvanized steelPitch: -Clearance: .3"Hub Diameter: -**Shutter**Material: AluminumNumber Doors: 9Number Rows: 1Door Length: 35.8"Location: intake**Other Attachments****Motor**Make: MagnetekModel #: 8-186137-40Serial #: -H.P.: 1/2Amps: 6.8/3.6-3.4Volts: 115/208-230RPM: 1725/1425S.F.: 1.00Drive Pulley Dia.: AK23Axle Pulley Dia.: AL64Center Spacing: -**Housing**Material: galv. steelIntake Area: 36.3"x37"Discharge Area: 37.3"x37.3"Depth: 28" top
17.5" bottom**Guards**Description: welded wireSpacing: 1" x 2"Location: exhaust

TEST RESULTS

ACME BDR36G-A

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 95286	0.00	635	11500	18.0
Fan description:	0.05	634	10930	16.8
36" belt drive, Magnetek 8-186137-40	0.10	633	10330	15.4
motor, galvanized steel housing,	0.15	632	9650	14.1
Aluminum shutter and guard	0.20	630	8930	12.8
	0.25	628	8010	11.1
	0.30	626	6770	9.2
