

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 95293 Series/Test: / Test Date: October 24, 1995 File Name: **Fan**Make: Acme
Model #: BDR36G-C
Serial #: -
Manufacturer: Acme
Blade Size: 36"
Orifice Dia.: 36.5"**Blade**Number: 4
Shape: propeller
Material: galvanized steel
Pitch: -
Clearance: .3"
Hub Diameter: -**Shutter**Material: Aluminum
Number Doors: 9
Number Rows: 1
Door Length: 35.8"
Location: intake**Other Attachments**Discharge cone 17.3" deep, 45" o.d.**Motor**Make: Magnetek
Model #: 8-186137-40
Serial #: -
H.P.: 1/2
Amps: 6.8/3.6-3.4
Volts: 115/208-230
RPM: 1725/1425
S.F.: 1.00
Drive Pulley Dia.: AK23
Axle Pulley Dia.: AL64
Center Spacing: -**Housing**Material: galv. steel
Intake Area: 36.3"x37"
Discharge Area: 37.3"x37.3"
Depth: 28" top
17.5" bottom**Guards**Description: welded wire
Spacing: 2" concentric
Location: exhaust

TEST RESULTS

ACME BDR36G-C

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 95293	0.00	634	12360	20.2
Fan description:	0.05	635	11800	18.7
36" belt drive, Magnetek 8-186137-40	0.10	633	11200	17.1
motor, galvanized steel housing, aluminum shutter,	0.15	632	10560	15.7
guard and discharge cone	0.20	631	9700	14.0
	0.25	629	8640	12.3
	0.30	627	7050	9.7