

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 94376 Series/Test: / Test Date: December 19, 1994 File Name: **Fan**Make: MCM
Model #: 9S003672
Serial #: -
Manufacturer: Miller Control Mfg.
Blade Size: 36"
Orifice Dia.: 36.6"**Blade**Number: 3
Shape: propeller
Material: galv. steel
Pitch: -
Clearance: .3"
Hub Diameter: -**Shutter**Material: pvc
Number Doors: 12 per row
Number Rows: 2
Door Length: 19.9"
Location: intake**Other Attachments**Discharge cone 20.3" deep, 43" o.d.**Motor**Make: Emerson
Model #: K55HXCBS-6346
Serial #: -
H.P.: 1/2
Amps: 6.4/3.2
Volts: 115/230
RPM: 825
S.F.: 1.0
Drive Pulley Dia.: direct
Axle Pulley Dia.: drive
Center Spacing: -**Housing**Material: fiberglass
Intake Area: 42.5"x42.5"
Discharge Area: 36.5" dia.
Depth: 24" top
19.3" bottom**Guards**Description: welded wire
Spacing: 2" x 4"
Location: exhaust

TEST RESULTS

MILLER CONTROL & MFG. 9S003672

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94376	0.00	861	11670	24.3
Fan description:	0.05	855	10960	21.4
36" direct drive, 1/2 hp Emerson	0.10	850	10200	18.9
K55HXCBS-6346 motor, fiberglass housing,	0.15	845	9340	16.3
plastic shutter, guard and discharge cone	0.20	839	8310	13.7
	0.25	836	6800	10.8
	0.30	827	5190	7.8
