

**Bioenvironmental and Structural Systems Lab
Fan Description Form**

Project Number: 97006 Series/Test: / Test Date: January 15, 1997 File Name: **Fan**

Make: Munters Euroemme
Model #: EM50
Serial #: -
Manufacturer: Euroemme
Blade Size: 50"
Orifice Dia.: 50.5"

Blade

Number: 6
Shape: propeller
Material: stainless steel
Pitch: -
Clearance: 0.3"
Hub Diameter: -

Shutter with centrifugal opener

Material: galvanized steel
Number Doors: 10
Number Rows: 1
Door Length: 50.8"
Location: exhaust

Other AttachmentsNew motor mount - located toward center of fan**Motor**

Make: Magnetek
Model #: C582
Serial #: -
H.P.: 1
Amps: 4.8/9.6
Volts: 230/115
RPM: 1725
S.F.: 1.00

Drive Pulley Dia.: 70mm
Axle Pulley Dia.: 13" o.d.
Center Spacing: -

Housing

Material: galv. steel
Intake Area: 51.5"x51.5"
Discharge Area: 50.3"x51"
Depth: 18"

Guards

Description: wire
Spacing: 2" x 3"
Location: intake

TEST RESULTS

EUROEMME EM50

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 97006	0.00	378	20500	21.3
Fan description:	0.05	377	19100	19.1
50" belt drive, 1 hp Magnetek C582	0.10	376	17700	17.2
motor, galvanized steel housing, guard	0.15	376	16000	15.2
and galvanized shutter w/ automatic opener	0.20	376	13400	12.6
	0.25	376	11100	10.6
	0.30	375	7300	6.8
