

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 97331 Series/Test: / Test Date: December 9, 1997 File Name: **Fan**Make: Munters EuroemmeModel #: 451 ConeSerial #: -Manufacturer: EuroemmeBlade Size: 48.8"Orifice Dia.: 49.5"**Blade**Number: 6Shape: propellerMaterial: stainless steelPitch: -Clearance: 0.3"Hub Diameter: -**Shutter**Material: galvanized steelNumber Doors: 10Number Rows: 1Door Length: 51"Location: intake**Other Attachments**discharge cone 24.5" deep, 61.5" o.d., 49.5" i.d.
centrifugally operated shutter opener**Motor**Make: MagnetekModel #: 8-158719-01Serial #: -H.P.: 1.0Amps: 4.8/9.6Volts: 230/115RPM: 1725S.F.: 1.0Drive Pulley Dia.: 2.9"o.d.Axle Pulley Dia.: 13.3"o.d.Center Spacing: -**Housing**Material: galv. steelIntake Area: 51" x 51"Discharge Area: 49.5" dia.Depth: 16.5"**Guards**Description: wireSpacing: 2.3"Location: exhaust

TEST RESULTS

EUROEMME 451CONE

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 97331	0.00	365	19300	27.6
Fan description:	0.05	364	18400	24.8
48" belt drive, 1 hp Magnetek 8-158719	0.10	364	17100	21.8
motor, galvanized steel housing, galv. shutter	0.15	363	15400	18.6
w/ automatic opener and discharge cone	0.20	363	13200	15.5
	0.25	363	9600	10.9
	0.30	362	7100	7.8
