

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 97338 Series/Test: / Test Date: December 12, 1997 File Name: **Fan**Make: MultifanModel #: X36-36 8E92Serial #: -Manufacturer: MultifanBlade Size: 36"Orifice Dia.: 36.3"**Blade**Number: 3Shape: propellerMaterial: plasticPitch: -Clearance: 0.2"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 13 per rowNumber Rows: 2Door Length: 21"Location: intake**Other Attachments**discharge cone 20" deep, 36.3" i.d., 47" o.d.**Motor**Make: VostermansModel #: 8E92-3PP-21NFSerial #: -H.P.: 0.7 kWAmps: 3.9Volts: 250RPM: 800S.F.: -Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 44.5"x44.5"Discharge Area: 36.3" dia.Depth: 19"**Guards**Description: wireSpacing: 2.3" concentricLocation: exhaust

TEST RESULTS

MULTIFAN X36-36 8E92

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 97338	0.00	782	13390	21.1
Fan description:	0.05	769	12540	18.9
36" direct drive, 0.7 kW Vostermans	0.10	747	11370	16.3
8E92-3PP-21NF motor, plastic housing,	0.15	729	10070	13.8
plastic shutter, guard and discharge cone	0.20	713	8690	11.6
	0.25	707	7080	9.5
	0.30	725	5560	7.7
