

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 91076 Series/Test: / Test Date: April 18, 1991 File Name: **Fan**Make: MultifanModel #: PH4E50Serial #: naManufacturer: MultifanBlade Size: 19.9"Orifice Dia.: 20.1"**Blade**Number: 6Shape: propellerMaterial: plasticPitch: naClearance: .1"Hub Diameter: 3.9"**Shutter**Material: plasticNumber Doors: 7Number Rows: 1Door Length: 20.4"Location: exhaust**Other Attachments**System 1 plastic hood**Motor**Make: MultifanModel #: 4E50Serial #: naH.P.: .43 kWAmps: 2.0Volts: 240RPM: 1600S.F.: naDrive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: **Housing**Material: plasticIntake Area: 24" x 24.5"Discharge Area: 21" x 21.5"Depth: 35"**Guards**Description: plastic coated
wireSpacing: 1.8" x 2.8"Location: intake

TEST RESULTS

MULTIFAN PH4E50

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 91076	0.00	1580	4310	9.9
Fan description:	0.05	1569	4140	9.4
20" direct drive, 0.43 kW Vostermans 4E50	0.10	1558	3960	8.8
motor, plastic wind hood and housing,	0.15	1546	3760	8.2
plastic shutter and guard	0.20	1532	3550	7.7
	0.25	1519	3310	7.1
	0.30	1515	3060	6.5
