

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 91075 Series/Test: / Test Date: april 16, 1991 File Name: **Fan**Make: MultifanModel #: PH4E45Serial #: naManufacturer: MultifanBlade Size: 17.8"Orifice Dia.: 18"**Blade**Number: 6Shape: propellerMaterial: plasticPitch: naClearance: .1"Hub Diameter: 3.9"**Shutter**Material: plasticNumber Doors: 6Number Rows: 1Door Length: 18.3"Location: exhaust**Other Attachments**System 1 plastic hood**Motor**Make: MultifanModel #: 4E45Serial #: naH.P.: .34 kWAmps: 1.5Volts: 240RPM: 1600S.F.: naDrive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: **Housing**Material: plasticIntake Area: 22" x 22.3"Discharge Area: 18.8"x 19.3"Depth: 36"**Guards**Description: plastic coated
wireSpacing: 1.8" x 2.8"Location: intake

TEST RESULTS

MULTIFAN PH4E45

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 91075	0.00	1631	3400	10.6
Fan description:	0.05	1620	3250	9.9
18" direct drive, 0.34 kW Vostermans 4E45	0.10	1611	3090	9.1
motor, plastic wind hood and housing,	0.15	1602	2950	8.5
plastic shutter and guard	0.20	1589	2760	7.8
	0.25	1582	2610	7.3
	0.30	1571	2390	6.6
