

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 91074 Series/Test: / Test Date: April 16, 1991 File Name: **Fan**Make: MultifanModel #: PH4E40Serial #: naManufacturer: MultifanBlade Size: 15.8"Orifice Dia.: 16"**Blade**Number: 6Shape: propellerMaterial: plasticPitch: naClearance: .1"Hub Diameter: 3.9"**Shutter**Material: plasticNumber Doors: 5Number Rows: 1Door Length: 16.4"Location: exhaust**Other Attachments**plastic hood**Motor**Make: MultifanModel #: 4E40Serial #: naH.P.: .23 kWAmps: 1.1Volts: 240RPM: 1600S.F.: naDrive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: **Housing**Material: plasticIntake Area: 19.8" x 20.3"Discharge Area: 17.5" x 17"Depth: 22.5"**Guards**Description: plastic coated
wireSpacing: 1.8" x 2.8"Location: intake

TEST RESULTS

MULTIFAN PH4E40

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 91074	0.00	1609	2640	9.9
Fan description:	0.05	1598	2520	9.3
16" direct drive, 0.23 kW Vostermans 4E40	0.10	1586	2410	8.7
motor, plastic wind hood and housing,	0.15	1577	2280	8.1
plastic shutter and guard	0.20	1570	2140	7.5
	0.25	1562	1980	6.9
