

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96104 Series/Test: / Test Date: May 14, 1996 File Name: **Fan**Make: MultifanModel #: BA4E50 S-4Serial #: -Manufacturer: MultifanBlade Size: 20"Orifice Dia.: 20.8"**Blade**Number: 6Shape: propellerMaterial: plasticPitch: -Clearance: 0.4"Hub Diameter: -**Shutter**Material: PlasticNumber Doors: 7Number Rows: 2Door Length: 10.4"Location: intake**Other Attachments****Motor**Make: VostermansModel #: 4E50Serial #: -H.P.: 0.43 kWAmps: 2.0Volts: 240RPM: 1600S.F.: -Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 22"x22"Discharge Area: 20.8"Depth: 26.5" top
22.3" bottom**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

MULTIFAN BA4E50 S-4

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96104	0.00	1558	3830	9.0
Fan description:	0.05	1558	3620	8.5
20" direct drive, 0.43 kW Vostermans	0.10	1557	3420	7.9
4E50 motor, plastic housing,	0.15	1553	3220	7.5
plastic shutter and guard	0.20	1548	2970	6.9
	0.25	1538	2760	6.2
	0.30	1523	2490	5.6
