

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96105 Series/Test: / Test Date: May 14, 1996 File Name: **Fan**Make: MultifanModel #: BA4E40Serial #: -Manufacturer: MultifanBlade Size: 16"Orifice Dia.: 16.6"**Blade**Number: 6Shape: propellerMaterial: plasticPitch: -Clearance: 0.3"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 5Number Rows: 1Door Length: 17Location: intake**Other Attachments****Motor**Make: VostermansModel #: 4E40Serial #: -H.P.: 0.23kWAmps: 1.1Volts: 240RPM: 1600S.F.: -Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: PlasticIntake Area: 18"x18"Discharge Area: 16.5" dia.Depth: 25.5" top
22" bottom**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

MULTIFAN BA4E40 S-4

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96105	0.00	1612	2590	10.0
Fan description:	0.05	1607	2460	9.5
16" direct drive, 0.23 kW Vostermans	0.10	1605	2330	8.9
4E40 motor, plastic housing,	0.15	1608	2180	8.4
plastic shutter and guard	0.20	1618	1920	7.6
	0.25	1618	1710	6.8
	0.30	1606	1460	5.6
