

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96106 Series/Test: / Test Date: May 14, 1996 File Name: **Fan**Make: MultifanModel #: BA4E30
12" system 4Serial #: -Manufacturer: MultifanBlade Size: 12"Orifice Dia.: 12.5"**Blade**Number: 6Shape: propellerMaterial: plasticPitch: -Clearance: 0.3"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 4Number Rows: 1Door Length: 13.1"Location: intake**Other Attachments****Motor**Make: VostermansModel #: 4E30Serial #: -H.P.: 0.11 kWAmps: 0.5Volts: 240RPM: 1600S.F.: -Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 14.3"x14.3"Discharge Area: 12.5" dia.Depth: 25.5" top
22.5" bottom**Guards**Description: wireSpacing: 2" concentricLocation: exhaust

TEST RESULTS

MULTIFAN BA4E30 S-4

	Static Pressure	Speed	Airflow	Efficiency
Test: 96106	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
	0.00	1644	1297	10.8
Fan description:	0.05	1645	1187	10.1
12" direct drive, 0.11 kW Vostermans	0.10	1666	920	8.5
4E30 motor, plastic housing,	0.15	1666	698	6.5
plastic shutter and guard	0.20	1653	572	5.0
	0.25	1641	486	4.0
	0.30	1625	399	3.1
