

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 96143 Series/Test: / Test Date: June 20, 1996 File Name: **Fan**Make: AerotechModel #: GB48Q1Serial #: -Manufacturer: AerotechBlade Size: 48"Orifice Dia.: 48.8"**Blade**Number: 3Shape: propellerMaterial: galv. steelPitch: -Clearance: 0.4"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 13 per rowNumber Rows: 2Door Length: 24.6"Location: intake**Other Attachments****Motor**Make: MagnetekModel #: 8-184923-01Serial #: -H.P.: 1.0Amps: 5.1Volts: 230RPM: 850S.F.: 1.0Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: galv. steelIntake Area: 51.4"x51.4"Discharge Area: 51.4"x51.4"Depth: 24"**Guards**Description: welded wireSpacing: 2" x 2"Location: exhaust

TEST RESULTS

AEROTECH GB48Q1P

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 96143	0.00	794	18900	16.3
Fan description:	0.05	786	17600	14.9
48" direct drive, 1 hp Magnetek 8-184923-01	0.10	778	16100	13.2
motor, galvanized steel housing,	0.15	770	14700	11.8
plastic shutter and guard	0.20	760	12800	9.9
	0.25	751	10500	8.0
