

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 94331 Series/Test: / Test Date: November 17, 1994 File Name: **Fan**Make: DaytonModel #: 4B051Serial #: -Manufacturer: LenexaBlade Size: 48"Orifice Dia.: 48.5"**Blade**Number: 2Shape: propellerMaterial: galv. steelPitch: -Clearance: .3"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 12 per rowNumber Rows: 2Door Length: 23.8"Location: intake**Other Attachments****Motor**Make: DaytonRef. #: K63ZZDTJ-4367Serial #: H.P.: 1Amps: 5.2Volts: 230RPM: 850S.F.: 1.0Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: galv. steelIntake Area: 48.8"x48.5"Discharge Area: 51" x 52.3"Depth: 31.4" top
17" bottom**Guards**Description: welded wireSpacing: 1" x 2"Location: exhaust

TEST RESULTS

DAYTON 4B051

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94331	0.00	848	19300	19.3
Fan description:	0.05	847	17900	17.5
48" direct drive, 1 hp Dayton K63ZZDTJ-4367	0.10	846	16500	16.1
motor, galvanized steel slant housing,	0.15	843	15000	14.5
aluminum shutter and guard	0.20	842	13300	12.6
	0.25	841	11400	10.8
	0.30	840	8400	7.8
