

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 94332 Series/Test: / Test Date: November 18, 1994 File Name: **Fan**Make: DaytonModel #: 4B052Serial #: -Manufacturer: DaytonBlade Size: 36"Orifice Dia.: 36.5"**Blade**Number: 2Shape: propellerMaterial: galvanized steelPitch: -Clearance: .3"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 9Number Rows: 1Door Length: 35.8"Location: intake**Other Attachments****Motor**Make: DaytonRef #: K55HXJRE-3227Serial #: -H.P.: 1/2Amps: 6.0/3.0Volts: 115/230RPM: 850S.F.: 1.25Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: galv. steelIntake Area: 34.5"x35.8"Discharge Area: 37.3"x 38"Depth: 27.5" top
17" bottom**Guards**Description: welded wireSpacing: 1" x 2"Location: exhaust

TEST RESULTS

DAYTON 4B052

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94332	0.00	864	9880	21.8
Fan description:	0.05	861	9120	19.3
36" direct drive, 1/2 hp Dayton	0.10	858	8310	16.9
K55HXJRE-3227 motor, galvanized steel	0.15	854	7340	14.2
slant housing, aluminum shutter and guard	0.20	851	5990	11.1
	0.25	843	3850	6.6
	0.30	831	2260	3.5
