

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 92198 Series/Test: / Test Date: August 11, 1992 File Name: **Fan**Make: DaytonModel #: 3F521Serial #: Manufacturer: LenexaBlade Size: 48.2"Orifice Dia.: 48.8"**Blade**Number: 2Shape: propellerMaterial: galvanized steelPitch: -Clearance: .3"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 12 per rowNumber Rows: 2Door Length: 23.8"Location: intake**Other Attachments**Discharge cone 15" deep, 54" o.d., 48.8" i.d.**Motor**Make: DaytonRef. #: K63ZZDTJ-4367Serial #: -H.P.: 1Amps: 5.2Volts: 230RPM: 850S.F.: 1Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: galv. steelIntake Area: 54" x 54"Discharge Area: 48.8" dia.Depth: 16"**Guards**Description: welded wireSpacing: 2.3" concentricLocation: exhaust

TEST RESULTS

DAYTON 3F521

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 92198	0.00	853	19600	21.4
Fan description:	0.05	849	18300	19.3
48" direct drive, 1 hp Dayton	0.10	846	16700	17.1
K63ZZDTJ-4367 motor, galvanized steel	0.15	843	15100	15.1
housing, aluminum shutter, guard	0.20	841	13300	13.0
and discharge cone	0.25	839	11200	10.8
