

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 92197 Series/Test: / Test Date: August 11, 1992 File Name: **Fan**Make: DaytonModel #: 3F519Serial #: Manufacturer: LenexaBlade Size: 48.2"Orifice Dia.: 48.8"**Blade**Number: 2Shape: propellerMaterial: galvanized steelPitch: -Clearance: .3"Hub Diameter: -**Shutter # IC211**Material: aluminumNumber Doors: 12 per rowNumber Rows: 2Door Length: 23.8"Location: exhaust**Other Attachments****Motor**Make: DaytonRef. #: K63ZZDTJ-4367Serial #: -H.P.: 1Amps: 5.2Volts: 230RPM: 850S.F.: 1Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: wafer boardIntake Area: 54" x 54"Discharge Area: 54" x 54"Depth: 17"**Guards**Description: welded wireSpacing: 1" x 2"Location: intake

TEST RESULTS

DAYTON 3F519

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 92197	0.00	851	18700	20.1
Fan description:	0.05	848	17300	18.2
48" direct drive, 1 hp Dayton	0.10	845	15700	16.1
K63ZZDTJ-4367 motor, wood housing,	0.15	842	14100	14.0
aluminum shutter and guard	0.20	838	12300	11.9
	0.25	834	9900	9.4
