

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 90149 Series/Test: / Test Date: Nov. 8, 1990 File Name: **Fan**Make: DaytonModel #: 7H214Serial #: Manufacturer: DaytonBlade Size: 36"Orifice Dia.: 36.8"**Blade**Number: 4Shape: propellerMaterial: steelPitch: naClearance: 0.4"Hub Diameter: 4"**Shutter**Material: AluminumNumber Doors: 9Number Rows: 1Door Length: 36"Location: inlet**Other Attachments**slant wall housing**Motor**Make: DaytonModel #: 4K123Serial #: H.P.: 1/2Amps: 5.0/2.5Volts: 115/208-230RPM: 1725S.F.: 1.25Drive Pulley Dia.: 2.5"Axle Pulley Dia.: 7"Center Spacing: 9"**Housing**Material: galv. steelIntake Area: 34.5"x35.5"Discharge Area: 38" x 38"Depth: 33" top
21" bottom**Guards**Description: wire meshSpacing: 1" x 2"Location: exhaust

TEST RESULTS

DAYTON 7H214

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 90149	0.00	638	10100	20.9
Fan description:	0.05	-	9600	18.7
36" belt drive, 1/2 hp Dayton 4K123	0.10	635	8900	16.6
motor, galvanized steel slant housing,	0.15	-	8600	14.5
aluminum shutter and guard	0.20	632	7000	11.8
