

**Bioenvironmental and Structural Systems Lab
Fan Description Form**Project Number: 94196 Series/Test: / Test Date: June 1, 1994 File Name: **Fan**Make: AcmeModel #: DDPS24G6-CSerial #: -Manufacturer: AcmeBlade Size: 24"Orifice Dia.: 24.6"**Blade**Number: 4Shape: propellerMaterial: stainless steelPitch: 30 deg.Clearance: .3"Hub Diameter: -**Shutter**Material: AluminumNumber Doors: 10Number Rows: 1Door Length: 28"Location: intake**Other Attachments**discharge cone 29.8" o.d., 16.8" deep**Motor**Make: G.E.Model #: 5KCP39SGL131SSerial #: -H.P.: 1/2Amps: 6.8/3.4Volts: 115/230RPM: 1075S.F.: 1.00Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 31.5"x30"Discharge Area: 24.6" dia.Depth: 23" top
16" bottom**Guards**Description: stainless steel
wireSpacing: 1.1" concentricLocation: exhaust

TEST RESULTS

ACME DDPS24G6-C

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94196	0.00	1097	7360	14.4
Fan description:	0.05	1091	6900	13.0
24" direct drive, 1/2 hp GE 5KCP39SGL131S	0.10	1086	6500	12.0
motor, plastic housing, aluminum shutter,	0.15	1080	6070	10.8
guard and discharge cone	0.20	1073	5520	9.6
	0.25	1084	3010	5.6
	0.30	1073	2430	4.2
