

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 94200 Series/Test: / Test Date: June 2, 1994 File Name: **Fan**Make: AcmeModel #: DDPS18B4-CSerial #: -Manufacturer: AcmeBlade Size: 18.3"Orifice Dia.: 18.9"**Blade**Number: 2Shape: propellerMaterial: stainless steelPitch: 21 deg.Clearance: .3"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 7Number Rows: 1Door Length: 22"Location: intake**Other Attachments**discharge cone 22.8" o.d., 12.7" deep**Motor**Make: G.E.Model #: 5KCP39BGL008ASSerial #: -H.P.: 1/10Amps: 1.2/.6Volts: 115/230RPM: 1625S.F.: -Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 23.3"x24.5"Discharge Area: 18.9" dia.Depth: 22" top
17" bottom**Guards**Description: stainless steel
wireSpacing: 1.1" concentricLocation: exhaust

TEST RESULTS

ACME DDPS18B4-C

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94200	0.00	1478	2720	16.3
Fan description:	0.05	1449	2430	13.9
18" direct drive, 1/10 hp GE 5KCP39BGL008AS	0.10	1412	2060	11.3
motor, plastic housing, aluminum shutter,	0.15	1374	1590	8.4
guard and discharge cone	0.20	1309	710	3.6