

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 94199 Series/Test: / Test Date: June 2, 1994 File Name: **Fan**Make: AcmeModel #: DDPS18F4-CSerial #: -Manufacturer: AcmeBlade Size: 18.3"Orifice Dia.: 18.9"**Blade**Number: 4Shape: propellerMaterial: stainless steelPitch: 28 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 #: 5KCP39K6L132SSerial #: -H.P.: 1/3Amps: 4.1/2.05Volts: 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 DDPS18F4-C

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94199	0.00	1638	4180	11.0
Fan description:	0.05	1632	4000	10.4
18" direct drive, 1/3 hp GE 5KCP39K6L132S	0.10	1625	3810	9.7
motor, plastic housing, aluminum shutter,	0.15	1617	3610	9.1
guard and discharge cone	0.20	1612	3370	8.2
	0.25	1608	3060	7.4
	0.30	1626	1610	4.2
