

**Bioenvironmental and Structural Systems Lab
Fan Description Form**Project Number: 94195 Series/Test: / Test Date: June 1, 1994 File Name: **Fan**Make: AcmeModel #: DDPS14D4-CSerial #: -Manufacturer: AcmeBlade Size: 14"Orifice Dia.: 14.4"**Blade**Number: 4Shape: propellerMaterial: Stainless steelPitch: 41 deg.Clearance: .2"Hub Diameter: -**Shutter**Material: aluminumNumber Doors: 6Number Rows: 1Door Length: 16"Location: intake**Other Attachments**Discharge cone 18" o.d., 10.5" deep**Motor**Make: G.E.Model #: 5KCP39FGL437SSerial #: -H.P.: 1/5Amps: 2.6/1.30Volts: 115/230RPM: 1625S.F.: -Drive Pulley Dia.: DirectAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: PlasticIntake Area: 18.8"x18"Discharge Area: 14.4" dia.Depth: 21" top
16" bottom**Guards**Description: plastic coatedSpacing: 1.5" concentricLocation: exhaust

TEST RESULTS

ACME DDPS14D4-C

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 94195	0.00	1642	2150	9.2
Fan description:	0.05	1638	2020	8.5
14" direct drive, 1/5 hp GE 5KCP39FGL437S	0.10	1635	1840	7.7
motor, plastic housing, aluminum shutter,	0.15	1653	770	3.5
guard and discharge cone	0.20	1641	650	2.8
