

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 92185 Series/Test: / Test Date: July 7, 1992 File Name: **Fan**Make: PrudenModel #: PS24HCSerial #: -Manufacturer: PrudenBlade Size: 24.4"Orifice Dia.: 24.5"**Blade**Number: 4Shape: propellerMaterial: plasticPitch: 45 deg.Clearance: .1"Hub Diameter: 5.2"**Shutter**Material: aluminumNumber Doors: 7Number Rows: 1Door Length: 26.1"Location: intake**Other Attachments**Discharge cone 24.5" i.d., 31" o.d., 20.5" deep**Motor**Make: General ElectricModel #: 5KCP36PN43GSSerial #: -H.P.: 1/3Amps: 2.1Volts: 230RPM: 1140S.F.: -Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 25.3"x25.3"Discharge Area: 24.5"Depth: 16"**Guards**Description: plastic coated
wireSpacing: 1" concentricLocation: exhaust

TEST RESULTS

PRUDEN PRODUCTS PS24HC

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 92185	0.00	1141	6070	17.1
Fan description:	0.05	1139	5790	15.9
24" direct drive, 1/3 hp GE 5KCP36PN43GS	0.10	1137	5500	14.9
motor, plastic housing, aluminum shutter,	0.15	1136	5130	13.8
guard and discharge cone	0.20	1136	4720	12.8
	0.25	1135	4190	11.3
