

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 92260 Series/Test: / Test Date: October 27, 1992 File Name: **Fan**Make: Better AirModel #: LPF2400Serial #: -Manufacturer: Better AirBlade Size: 23.8"Orifice Dia.: 24.1"**Blade**Number: 5Shape: propellerMaterial: plasticPitch: -Clearance: .2"Hub Diameter: -**Shutter**Material: plasticNumber Doors: 5Number Rows: 1Door Length: 25"Location: intake**Other Attachments**discharge cone 16.5" deep, 30" o.d., 24.1" i.d.**Motor**Make: LeesonModel #: A4P11NR3BSerial #: -H.P.: 1/3Amps: 3.6/1.8Volts: 115/230RPM: 1075S.F.: 1Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: -**Housing**Material: plasticIntake Area: 26.3"x26.2"Discharge Area: 24.1"Depth: 18"**Guards**Description: painted wireSpacing: 1.8" concentricLocation: exhaust

TEST RESULTS

BETTER AIR LPF2400

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 92260	0.00	1089	6220	14.7
Fan description:	0.05	1083	5900	13.7
24" direct drive, 1/3 hp Leeson A4P11NR3B	0.10	1077	5540	12.6
motor, plastic housing, plastic shutter,	0.15	1075	5190	11.6
guard and discharge cone	0.20	1074	4780	10.6
	0.25	1076	4010	9.1
