

**Bioenvironmental and Structural Systems Lab
Fan Description Form**

Project Number: 92257 Series/Test: / Test Date: October 26, 1992 File Name: **Fan**

Make: Better Air

Model #: LPF3600

Serial #: -

Manufacturer: Better Air

Blade Size: 36"

Orifice Dia.: 36.5"

Blade

Number: 3

Shape: propeller

Material: fiberglass reinforced
plastic

Pitch: -

Clearance: .3"

Hub Diameter: 8.6"

Shutter

Material: plastic

Number Doors: 9 per row

Number Rows: 2

Door Length: 18.8"

Location: intake

Other Attachmentsdischarge cone 18" deep, 43" o.d., 36.5" i.d.**Motor**

Make: Leeson

Model #: M6K17FB34A

Serial #: -

H.P.: 1/2

Amps: 5/2.5

Volts: 115/208-230

RPM: 1725

S.F.: 1.15

Drive Pulley Dia.: 3" O.D.

Axle Pulley Dia.: 8.9" O.D.

Center Spacing: 8.8"

Housing

Material: plastic

Intake Area: 39" x 39"

Discharge Area: 36.5" dia.

Depth: 25.5"

Guards

Description: painted wire

Spacing: 1.5" concentric

Location: exhaust

TEST RESULTS

BETTER AIR LPF3600 1/2

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 92257	0.00	497	11060	19.4
Fan description:	0.05	495	10040	16.8
36" belt drive, 1/2 hp Leeson M6K17FB34A	0.10	493	8460	13.9
motor, plastic housing, plastic shutter,	0.15	496	4590	7.9
guard and discharge cone	0.20	491	3780	5.9
	0.25	491	2390	3.5
