

University of Illinois Department of Agricultural Engineering
 Bioenvironmental and Structural Systems Lab
 Final Report

Project Number: 03117
 Test Date: August 12, 2003

Fan:		Motor:			
Make-	Better Air	Make-	FHP	hp-	1.5
Model-	LPF-4800S	Model-	M009594	Amps-	13.6/6.8
Size-	48"	RPM-	1725	Volts-	115/230
		Phase-	1	Hz-	60

Attachments: plastic housing, guard, plastic shutter and discharge cone

Notes:

Test Conditions:

T(wb):	66.5	Barometric pressure, recorded	29.49
T(db):	79	Barometric Pressure, corrected	29.36

# Nozzle	Size (inch)	Pressure Drop	Static Pressure	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt
10	8	2.92	0.00	24062	563	230.0	6.26	1318	18.3
10	8	2.51	0.05	22313	563	230.3	6.26	1319	16.9
10	8	2.03	0.10	20068	564	230.5	6.16	1295	15.5
10	8	1.51	0.15	17306	564	230.0	6.05	1262	13.7
10	8	0.85	0.20	12973	565	229.6	5.80	1219	10.6
6	8	0.64	0.25	6750	565	229.6	5.88	1232	5.5