

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

Project Number: 03115
 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 and plastic shutter

Notes:

Test Conditions:

T(wb):	67	Barometric pressure, recorded	29.49
T(db):	80	Barometric Pressure, corrected	29.35

# Nozzle	Size (inch)	Pressure Drop	Static Pressure	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt
10	8	2.86	0.00	23838	602	229.6	7.74	1640	14.5
10	8	2.49	0.05	22246	601	229.5	7.65	1618	13.7
10	8	2.11	0.10	20456	602	229.5	7.51	1591	12.9
10	8	1.68	0.15	18247	603	229.5	7.33	1550	11.8
10	8	1.20	0.20	15407	604	229.6	7.14	1507	10.2
6	8	1.01	0.25	8496	605	229.7	7.01	1491	5.7