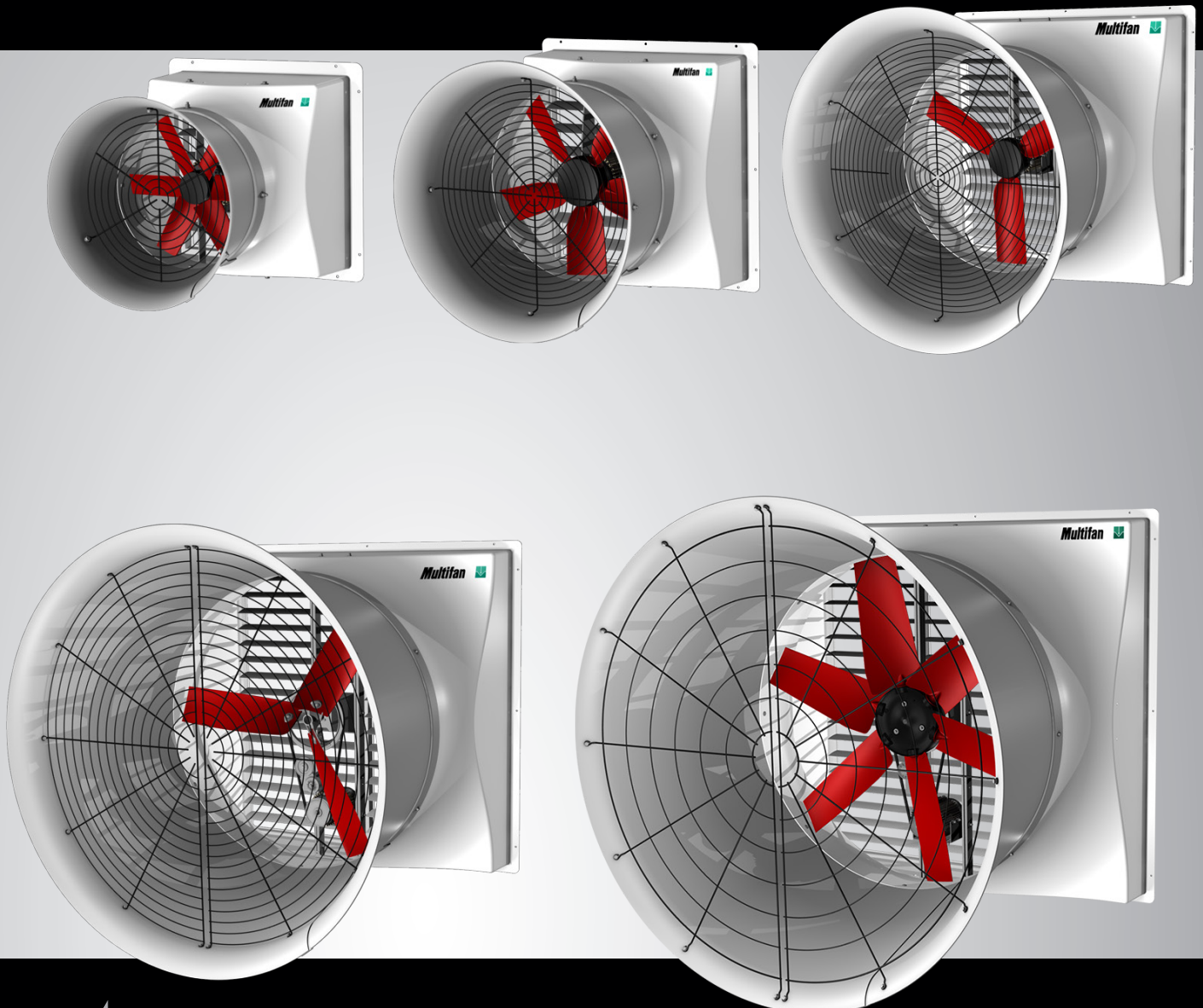




## Fiberglass Cone Fans



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

Project Number: 14146  
 Test Date: February 25, 2013

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan</i>	Make- <i>Multifan</i>	Material- <i>aluminum</i>
Model- <i>C4E45K0M10341</i>	Model- <i>M4E45K7</i>	# Doors- <i>6</i>
Blade dia.- <i>17.9"</i>	Hp- <i>0</i>	# Columns- <i>1</i>
Orifice dia.- <i>18.3"</i>	RPM- <i>0</i>	Door length <i>22.2"</i>
	Volts- <i>0</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>0</i>	
Number- <i>3</i>	Hz- <i>0</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>1</i>	Description- <i>wire</i>
Material- <i>plastic</i>	S. F.- <i>0</i>	Spacing- <i>0.9" concentric</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.2"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>21.3" x 21.3"</i>	Depth- <i>13.5"</i>
Drive dia.- <i>direct</i>	Discharge- <i>18.3" dia.</i>	Minor dia.- <i>18.3"</i>
Axle dia.- <i>drive</i>	Depth- <i>19.5"</i>	Major dia.- <i>24.5"</i>

Notes: 0

**Test Conditions:**

T(wb) F: 52      Barometric pressure, recorded      29.58  
 T(db) F: 75      Barometric Pressure, corrected      29.46 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	4450	1683	230.7	1.50	314	14.2	0	7600	24.1	41
0.05	4270	1678	229.8	1.54	322	13.3	12	7300	22.5	44
0.10	4070	1675	229.8	1.57	331	12.3	25	6900	20.9	48
0.15	3870	1672	230.2	1.59	340	11.4	37	6600	19.4	52
0.20	3630	1670	230.2	1.61	340	10.7	50	6200	18.1	55
0.25	3320	1671	230.7	1.60	340	9.8	62	5600	16.6	60
0.30	2990	1673	230.7	1.59	340	8.8	75	5100	14.9	67

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Project Number: 14147  
 Test Date: February 25, 2013

<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan</i>		Make- <i>Multifan</i>		Material- <i>Plastic</i>	
Model- <i>C4E45K0M10338</i>		Model- <i>M4E45K7</i>		# Doors- <i>6</i>	
Blade dia.- <i>17.9"</i>		Hp- <i>0</i>		# Columns- <i>1</i>	
Orifice dia.- <i>18.3"</i>		RPM- <i>0</i>		Door length <i>21.1"</i>	
		Volts- <i>0</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>0</i>			
Number- <i>3</i>		Hz- <i>0</i>		<b>Guards:</b>	
Shape- <i>propeller</i>		Phase- <i>1</i>		Description- <i>wire</i>	
Material- <i>plastic</i>		S. F.- <i>0</i>		Spacing- <i>0.9" concentric</i>	
Pitch- <i>-</i>				Location- <i>exhaust</i>	
Clearance- <i>0.2"</i>		<b>Housing:</b>			
		Material- <i>fiberglass</i>		<b>Discharge Cone:</b>	
<b>Drive Sheaves:</b>		Intake area- <i>20.6" x 20.6"</i>		Depth- <i>13.5"</i>	
Drive dia.- <i>direct</i>		Discharge- <i>18.3" dia.</i>		Minor dia.- <i>18.3"</i>	
Axle dia.- <i>drive</i>		Depth- <i>19.5"</i>		Major dia.- <i>24.5"</i>	

Notes: \*60Hz test

**Test Conditions:**  
 T(wb) F: 52.5 Barometric pressure, recorded 29.58  
 T(db) F: 75 Barometric Pressure, corrected 29.46 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	4250	1681	230.5	1.53	322	13.2	0	7200	22.4	45
0.05	4060	1677	230.2	1.56	331	12.3	12	6900	20.9	48
0.10	3860	1674	230.2	1.58	332	11.6	25	6600	19.8	51
0.15	3640	1671	230.2	1.59	340	10.7	37	6200	18.2	55
0.20	3310	1671	230.1	1.59	339	9.8	50	5600	16.6	60
0.25	2930	1675	229.8	1.57	331	8.9	62	5000	15	66
0.30	2020	1684	230.6	1.49	314	6.4	75	3400	10.9	91
<b>208V</b>										
0.00	4130	1648	208.7	1.61	313	13.2	0	7000	22.4	45
0.05	3940	1642	208.4	1.65	322	12.2	12	6700	20.8	48
0.10	3740	1638	208.3	1.67	322	11.6	25	6400	19.7	51
0.15	3510	1637	208.3	1.69	330	10.6	37	6000	18.1	55
0.20	3200	1636	208.1	1.69	325	9.9	50	5400	16.8	60
0.25	2720	1645	208.3	1.62	314	8.6	62	4600	14.7	68
0.30	1590	1638	208.5	1.67	323	4.9	75	2700	8.4	119

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Project Number: 14150  
 Test Date: February 25, 2013

<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan</i>		Make- <i>Multifan</i>		Material- <i>aluminum</i>	
Model- <i>C4D45K0M10341</i>		Model- <i>M4D50A7M10100</i>		# Doors- <i>6</i>	
Blade dia.- <i>17.9"</i>		Hp- <i>460 W</i>		# Columns- <i>1</i>	
Orifice dia.- <i>18.3"</i>		RPM- <i>1700</i>		Door length <i>22.2"</i>	
		Volts- <i>240 / 420</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>1.8 / 1.0</i>			
Number- <i>3</i>		Hz- <i>60</i>		<b>Guards:</b>	
Shape- <i>propeller</i>		Phase- <i>3</i>		Description- <i>wire</i>	
Material- <i>plastic</i>		S. F.- <i>-</i>		Spacing- <i>0.9" concentric</i>	
Pitch- <i>-</i>				Location- <i>exhaust</i>	
Clearance- <i>0.2"</i>		<b>Housing:</b>			
		Material- <i>fiberglass</i>		<b>Discharge Cone:</b>	
<b>Drive Sheaves:</b>		Intake area- <i>21.3" x 21.3"</i>		Depth- <i>13.5"</i>	
Drive dia.- <i>direct</i>		Discharge- <i>18.3" dia.</i>		Minor dia.- <i>18.3"</i>	
Axle dia.- <i>drive</i>		Depth- <i>19.5"</i>		Major dia.- <i>24.5"</i>	

Notes: \*60Hz test

**Test Conditions:**

T(wb) F: 52.5	Barometric pressure, recorded	29.55
T(db) F: 75	Barometric Pressure, corrected	29.43 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	4560	1720	230.0	1.51	331	13.8	0	7700	23.4	43
0.05	4370	1717	229.6	1.53	331	13.2	12	7400	22.4	45
0.10	4170	1715	230.0	1.53	348	12.0	25	7100	20.4	49
0.15	3980	1714	230.1	1.54	348	11.4	37	6800	19.4	52
0.20	3650	1712	229.6	1.54	348	10.5	50	6200	17.8	56
0.25	3480	1712	229.9	1.54	348	10.0	62	5900	17	59
0.30	3130	1713	230.0	1.53	348	9.0	75	5300	15.3	65

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Project Number: 14151  
 Test Date: February 25, 2013

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan</i>	Make- <i>Multifan</i>	Material- <i>Plastic</i>
Model- <i>C4D45K0M10338</i>	Model- <i>M4D50A7M10100</i>	# Doors- <i>6</i>
Blade dia.- <i>17.9"</i>	Hp- <i>460 W</i>	# Columns- <i>1</i>
Orifice dia.- <i>18.3"</i>	RPM- <i>1700</i>	Door length <i>21.1"</i>
	Volts- <i>240 / 420</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>1.8 / 1.0</i>	
Number- <i>3</i>	Hz- <i>60</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>3</i>	Description- <i>wire</i>
Material- <i>plastic</i>	S. F.- <i>-</i>	Spacing- <i>0.9" concentric</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.2"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>20.6" x 20.6"</i>	Depth- <i>13.5"</i>
Drive dia.- <i>direct</i>	Discharge- <i>18.3" dia.</i>	Minor dia.- <i>18.3"</i>
Axle dia.- <i>drive</i>	Depth- <i>19.5"</i>	Major dia.- <i>24.5"</i>

Notes: \*60Hz test

**Test Conditions:**

T(wb) F: 52.5      Barometric pressure, recorded      29.55  
 T(db) F: 75.5      Barometric Pressure, corrected      29.42 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	4340	1717	230.4	1.51	331	13.1	0	7400	22.3	45
0.05	4160	1715	230.1	1.51	334	12.5	12	7100	21.2	47
0.10	3960	1713	230.3	1.53	348	11.4	25	6700	19.3	52
0.15	3750	1712	230.1	1.53	348	10.8	37	6400	18.3	55
0.20	3470	1712	230.0	1.53	348	10.0	50	5900	16.9	59
0.25	3050	1714	230.0	1.51	344	8.9	62	5200	15.1	66
0.30	2200	1719	230.5	1.48	317	6.9	75	3700	11.8	85

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Project Number: 14189  
 Test Date: April 10, 2014

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan</i>	Make- <i>Multifan</i>	Material- <i>aluminum</i>
Model- <i>4E45-6PP-35</i>	Model- <i>M4E45K7M10100</i>	# Doors- <i>6</i>
Blade dia.- <i>17.9"</i>	Hp- <i>0</i>	# Columns- <i>1</i>
Orifice dia.- <i>18.3"</i>	RPM- <i>0</i>	Door length <i>22.2"</i>
	Volts- <i>0</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>0</i>	
Number- <i>6</i>	Hz- <i>60</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>1</i>	Description- <i>wire</i>
Material- <i>plastic</i>	S. F.- <i>-</i>	Spacing- <i>0.9" concentric</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.2"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>21.3" x 21.3"</i>	Depth- <i>13.5"</i>
Drive dia.- <i>direct</i>	Discharge- <i>18.3" dia.</i>	Minor dia.- <i>18.3"</i>
Axle dia.- <i>drive</i>	Depth- <i>19.5"</i>	Major dia.- <i>24.5"</i>

Notes: \*60Hz test

**Test Conditions:**

T(wb) F: 58	Barometric pressure, recorded	29.20
T(db) F: 79	Barometric Pressure, corrected	29.07 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	4220	1700	230.3	1.37	288	14.6	0	7200	24.9	40
0.05	4090	1693	230.0	1.43	302	13.5	12	6900	23	43
0.10	3960	1687	230.2	1.48	313	12.6	25	6700	21.5	47
0.15	3810	1680	230.0	1.54	326	11.7	37	6500	19.9	50
0.20	3670	1672	229.9	1.60	338	10.9	50	6200	18.5	54
0.25	3490	1665	229.4	1.65	350	10.0	62	5900	16.9	59
0.30	3290	1660	229.5	1.69	359	9.2	75	5600	15.6	64
0.35	3010	1657	229.2	1.70	364	8.3	87	5100	14	71
0.40	2190	1672	231.0	1.61	343	6.4	100	3700	10.9	92

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Project Number: 14190  
 Test Date: April 10, 2014

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan</i>	Make- <i>Multifan</i>	Material- <i>Plastic</i>
Model- <i>4E45-6PP-35</i>	Model- <i>M4E45K7M10100</i>	# Doors- <i>6</i>
Blade dia.- <i>17.9"</i>	Hp- <i>0</i>	# Columns- <i>1</i>
Orifice dia.- <i>18.3"</i>	RPM- <i>0</i>	Door length <i>21.1"</i>
	Volts- <i>0</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>0</i>	
Number- <i>6</i>	Hz- <i>60</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>1</i>	Description- <i>wire</i>
Material- <i>plastic</i>	S. F.- <i>-</i>	Spacing- <i>0.9" concentric</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.2"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>21.3" x 21.3"</i>	Depth- <i>13.5"</i>
Drive dia.- <i>direct</i>	Discharge- <i>18.3" dia.</i>	Minor dia.- <i>18.3"</i>
Axle dia.- <i>drive</i>	Depth- <i>19.5"</i>	Major dia.- <i>24.5"</i>

Notes: \*60Hz test

**Test Conditions:**

T(wb) F: 58      Barometric pressure, recorded      29.18  
 T(db) F: 79      Barometric Pressure, corrected      29.05 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	4170	1697	230.1	1.38	291	14.3	0	7100	24.4	41
0.05	4040	1691	230.2	1.44	303	13.3	12	6900	22.7	44
0.10	3890	1684	229.9	1.50	315	12.3	25	6600	21	48
0.15	3750	1678	229.8	1.54	329	11.4	37	6400	19.4	52
0.20	3570	1671	229.9	1.60	337	10.6	50	6100	18	56
0.25	3400	1666	230.0	1.64	350	9.7	62	5800	16.5	61
0.30	3140	1660	229.7	1.68	358	8.8	75	5300	14.9	67
0.35	2780	1660	230.3	1.69	359	7.7	87	4700	13.1	76
0.40	2110	1666	230.4	1.63	348	6.1	100	3600	10.3	97
<b>208V</b>										
0.00	4110	1670	207.8	1.45	280	14.7	0	7000	24.9	40
0.05	3960	1660	206.9	1.52	293	13.5	12	6700	23	44
0.10	3810	1652	207.5	1.58	307	12.4	25	6500	21.1	47
0.15	3640	1642	207.5	1.64	319	11.4	37	6200	19.4	52
0.20	3470	1634	207.8	1.70	329	10.5	50	5900	17.9	56
0.25	3240	1625	207.6	1.76	342	9.5	62	5500	16.1	62
0.30	2950	1619	207.8	1.80	350	8.4	75	5000	14.3	70
0.35	2350	1631	207.8	1.72	332	7.1	87	4000	12	83
0.40	1760	1607	208.3	1.87	364	4.8	100	3000	8.2	122

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Project Number: 14201  
 Test Date: April 10, 2014

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan</i>	Make- <i>Multifan</i>	Material- <i>aluminum</i>
Model- <i>4D45-6PP-35</i>	Model- <i>M4D45K7M10100</i>	# Doors- <i>6</i>
Blade dia.- <i>17.9"</i>	Hp- <i>0</i>	# Columns- <i>1</i>
Orifice dia.- <i>18.3"</i>	RPM- <i>0</i>	Door length <i>22.2"</i>
	Volts- <i>0</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>0</i>	
Number- <i>6</i>	Hz- <i>60</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>3</i>	Description- <i>wire</i>
Material- <i>plastic</i>	S. F.- <i>-</i>	Spacing- <i>0.9" concentric</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.2"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>21.3" x 21.3"</i>	Depth- <i>13.5"</i>
Drive dia.- <i>direct</i>	Discharge- <i>18.3" dia.</i>	Minor dia.- <i>18.3"</i>
Axle dia.- <i>drive</i>	Depth- <i>19.5"</i>	Major dia.- <i>24.5"</i>

Notes: \*60Hz test

**Test Conditions:**

T(wb) F: 59	Barometric pressure, recorded	29.18
T(db) F: 79	Barometric Pressure, corrected	29.05 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	4310	1726	229.9	1.42	296	14.6	0	7300	24.8	40
0.05	4170	1721	230.0	1.44	313	13.3	12	7100	22.6	44
0.10	4040	1717	229.7	1.47	313	12.9	25	6900	21.9	46
0.15	3850	1711	230.0	1.50	345	11.2	37	6500	19	53
0.20	3640	1706	229.6	1.51	349	10.4	50	6200	17.7	56
0.25	3490	1703	229.7	1.53	366	9.5	62	5900	16.2	62
0.30	3430	1702	229.6	1.54	366	9.4	75	5800	15.9	63
0.35	3200	1700	229.5	1.54	366	8.7	87	5400	14.8	67
0.40	2760	1703	230.0	1.54	366	7.6	100	4700	12.8	78



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Project Number: 14200  
 Test Date: April 10, 2014

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan</i>	Make- <i>Multifan</i>	Material- <i>Plastic</i>
Model- <i>4D45-6PP-35</i>	Model- <i>M4D45K7M10100</i>	# Doors- <i>6</i>
Blade dia.- <i>17.9"</i>	Hp- <i>0</i>	# Columns- <i>1</i>
Orifice dia.- <i>18.3"</i>	RPM- <i>0</i>	Door length <i>21.1"</i>
	Volts- <i>0</i>	Location- <i>intake</i>
	Amps- <i>0</i>	
<b>Blade:</b>	Hz- <i>60</i>	<b>Guards:</b>
Number- <i>6</i>	Phase- <i>3</i>	Description- <i>wire</i>
Shape- <i>propeller</i>	S. F.- <i>-</i>	Spacing- <i>0.9" concentric</i>
Material- <i>plastic</i>		Location- <i>exhaust</i>
Pitch- <i>-</i>		
Clearance- <i>0.2"</i>	<b>Housing:</b>	<b>Discharge Cone:</b>
	Material- <i>fiberglass</i>	Depth- <i>13.5"</i>
<b>Drive Sheaves:</b>	Intake area- <i>21.3" x 21.3"</i>	Minor dia.- <i>18.3"</i>
Drive dia.- <i>direct</i>	Discharge- <i>18.3" dia.</i>	Major dia.- <i>24.5"</i>
Axle dia.- <i>drive</i>	Depth- <i>19.5"</i>	

Notes: \*60Hz test

**Test Conditions:**

T(wb) F: 59      Barometric pressure, recorded      29.18  
 T(db) F: 79      Barometric Pressure, corrected      29.05 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	4290	1724	230.0	1.44	295	14.5	0	7300	24.7	41
0.05	4150	1720	229.6	1.46	313	13.2	12	7100	22.5	44
0.10	4010	1716	229.6	1.47	330	12.2	25	6800	20.7	48
0.15	3870	1712	229.6	1.50	331	11.7	37	6600	19.9	50
0.20	3730	1709	229.6	1.51	348	10.7	50	6300	18.2	55
0.25	3540	1705	229.6	1.53	349	10.1	62	6000	17.2	58
0.30	3320	1702	229.5	1.54	366	9.1	75	5600	15.4	65
0.35	3020	1701	229.6	1.55	366	8.3	87	5100	14	71
0.40	2300	1707	230.0	1.51	348	6.6	100	3900	11.2	89

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<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan</i>		Make- <i>Multifan</i>		Material- <i>aluminum</i>	
Model- <i>C6E63KOM10341</i>		Model- <i>M6E63K3</i>		# Doors- <i>7</i>	
Blade dia.- <i>25.4"</i>		Hp- <i>0</i>		# Columns- <i>1</i>	
Orifice dia.- <i>25.9"</i>		RPM- <i>0</i>		Door length <i>29.7"</i>	
		Volts- <i>0</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>0</i>			
Number- <i>4</i>		Hz- <i>1</i>		<b>Guards:</b>	
Shape- <i>propeller</i>		Phase- <i>0</i>		Description- <i>wire</i>	
Material- <i>plastic</i>		S. F.- <i>0</i>		Spacing- <i>0.9"</i>	
Pitch- <i>-</i>				Location- <i>exhaust</i>	
Clearance- <i>0.3"</i>		<b>Housing:</b>			
		Material- <i>fiberglass</i>		<b>Discharge Cone:</b>	
<b>Drive Sheaves:</b>		Intake area- <i>28.8" x 28.8"</i>		Depth- <i>19"</i>	
Drive dia.- <i>direct</i>		Discharge- <i>25.9" dia.</i>		Minor dia.- <i>25.9"</i>	
Axle dia.- <i>drive</i>		Depth- <i>20"</i>		Major dia.- <i>35.3"</i>	

Notes: 0

Test Conditions:

T(wb) F: 53	Barometric pressure, recorded	29.65
T(db) F: 75	Barometric Pressure, corrected	29.53 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	8170	1125	230.3	2.40	544	15.0	0	13900	25.5	39
0.05	7820	1122	230.5	2.44	556	14.1	12	13300	23.9	42
0.10	7420	1118	230.4	2.49	566	13.1	25	12600	22.3	45
0.15	7010	1115	230.4	2.52	576	12.2	37	11900	20.7	48
0.20	6560	1113	230.2	2.56	583	11.3	50	11100	19.1	52
0.25	6040	1110	229.9	2.58	587	10.3	62	10300	17.5	57
0.30	5350	1112	230.1	2.56	585	9.1	75	9100	15.5	64

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<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan</i>	Make- <i>Multifan</i>	Material- <i>Plastic</i>
Model- <i>C6E63KOM10338</i>	Model- <i>M6E63K3</i>	# Doors- <i>8 per column</i>
Blade dia.- <i>25.4"</i>	Hp- <i>0</i>	# Columns- <i>2</i>
Orifice dia.- <i>25.9"</i>	RPM- <i>0</i>	Door length <i>13.8"</i>
	Volts- <i>0</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>0</i>	
Number- <i>4</i>	Hz- <i>1</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>0</i>	Description- <i>wire</i>
Material- <i>plastic</i>	S. F.- <i>0</i>	Spacing- <i>0.9"</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.3"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>28.2" x 28.2"</i>	Depth- <i>19"</i>
Drive dia.- <i>direct</i>	Discharge- <i>25.9" dia.</i>	Minor dia.- <i>25.9"</i>
Axle dia.- <i>drive</i>	Depth- <i>20"</i>	Major dia.- <i>35.3"</i>

Notes: 0

**Test Conditions:**

T(wb) F: 52.5      Barometric pressure, recorded      29.64  
 T(db) F: 75      Barometric Pressure, corrected      29.52 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
<b>0.00</b>	<b>7510</b>	1121	230.4	2.44	556	<b>13.5</b>	0	12800	23	44
<b>0.05</b>	<b>7140</b>	1119	230.6	2.48	565	<b>12.6</b>	12	12100	21.5	47
<b>0.10</b>	<b>6770</b>	1116	229.8	2.51	570	<b>11.9</b>	25	11500	20.2	50
<b>0.15</b>	<b>6340</b>	1115	230.6	2.53	578	<b>11.0</b>	37	10800	18.6	54
<b>0.20</b>	<b>5800</b>	1114	230.4	2.55	581	<b>10.0</b>	50	9900	17	59
<b>0.25</b>	<b>5170</b>	1114	230.4	2.54	579	<b>8.9</b>	62	8800	15.2	66
<b>0.30</b>	<b>4040</b>	1118	230.2	2.49	566	<b>7.1</b>	75	6900	12.1	83
<b>208V</b>										
<b>0.00</b>	<b>7380</b>	1101	208.0	2.46	509	<b>14.5</b>	0	12500	24.6	41
<b>0.05</b>	<b>7040</b>	1098	208.1	2.50	517	<b>13.6</b>	12	12000	23.1	43
<b>0.10</b>	<b>6620</b>	1094	208.1	2.53	526	<b>12.6</b>	25	11200	21.4	47
<b>0.15</b>	<b>6130</b>	1091	208.0	2.56	531	<b>11.5</b>	37	10400	19.6	51
<b>0.20</b>	<b>5570</b>	1091	208.1	2.57	534	<b>10.4</b>	50	9500	17.7	56
<b>0.25</b>	<b>4910</b>	1092	208.2	2.56	531	<b>9.2</b>	62	8300	15.7	64
<b>0.30</b>	<b>2760</b>	1090	207.3	2.56	531	<b>5.2</b>	75	4700	8.8	113

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<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan</i>		Make- <i>Multifan</i>		Material- <i>aluminum</i>	
Model- <i>C6D63KOM10341</i>		Model- <i>M6D9200M60100</i>		# Doors- <i>7</i>	
Blade dia.- <i>25.4"</i>		Hp- <i>0.83 kW</i>		# Columns- <i>1</i>	
Orifice dia.- <i>25.9"</i>		RPM- <i>900</i>		Door length <i>29.7"</i>	
		Volts- <i>230 / 400</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>2.6 / 1.5</i>			
Number- <i>4</i>		Hz- <i>50</i>		<b>Guards:</b>	
Shape- <i>propeller</i>		Phase- <i>3</i>		Description- <i>wire</i>	
Material- <i>plastic</i>		S. F.- <i>-</i>		Spacing- <i>0.9"</i>	
Pitch- <i>-</i>				Location- <i>exhaust</i>	
Clearance- <i>0.3"</i>		<b>Housing:</b>			
		Material- <i>fiberglass</i>		<b>Discharge Cone:</b>	
<b>Drive Sheaves:</b>		Intake area- <i>28.8" x 28.8"</i>		Depth- <i>19"</i>	
Drive dia.- <i>direct</i>		Discharge- <i>25.9" dia.</i>		Minor dia.- <i>25.9"</i>	
Axle dia.- <i>drive</i>		Depth- <i>20"</i>		Major dia.- <i>35.3"</i>	

Notes: \*60 Hz test

Test Conditions:

T(wb) F: 54	Barometric pressure, recorded	29.59
T(db) F: 77	Barometric Pressure, corrected	29.46 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	8160	1122	230.5	1.98	471	17.3	0	13900	29.4	34
0.05	7780	1118	230.6	2.01	489	15.9	12	13200	27	37
0.10	7380	1115	230.3	2.05	506	14.6	25	12500	24.8	40
0.15	6950	1111	229.6	2.08	524	13.3	37	11800	22.5	44
0.20	6520	1108	229.6	2.11	542	12.0	50	11100	20.4	49
0.25	6030	1107	229.7	2.12	542	11.1	62	10200	18.9	53
0.30	5380	1108	229.6	2.11	542	9.9	75	9100	16.9	59

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Project Number: 14145  
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<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan</i>		Make- <i>Multifan</i>		Material- <i>Plastic</i>	
Model- <i>C6D63KOM10338</i>		Model- <i>M6D9200M60100</i>		# Doors- <i>8 per column</i>	
Blade dia.- <i>25.4"</i>		Hp- <i>0.83 kW</i>		# Columns- <i>2</i>	
Orifice dia.- <i>25.9"</i>		RPM- <i>900</i>		Door length <i>13.8"</i>	
		Volts- <i>230 / 400</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>2.6 / 1.5</i>			
Number- <i>4</i>		Hz- <i>50</i>		<b>Guards:</b>	
Shape- <i>propeller</i>		Phase- <i>3</i>		Description- <i>wire</i>	
Material- <i>plastic</i>		S. F.- <i>-</i>		Spacing- <i>0.9"</i>	
Pitch- <i>-</i>				Location- <i>exhaust</i>	
Clearance- <i>0.3"</i>		<b>Housing:</b>			
		Material- <i>fiberglass</i>		<b>Discharge Cone:</b>	
<b>Drive Sheaves:</b>		Intake area- <i>28.2" x 28.2"</i>		Depth- <i>19"</i>	
Drive dia.- <i>direct</i>		Discharge- <i>25.9" dia.</i>		Minor dia.- <i>25.9"</i>	
Axle dia.- <i>drive</i>		Depth- <i>20"</i>		Major dia.- <i>35.3"</i>	

Notes: \*60 Hz test

Test Conditions:

T(wb) F: 52.5	Barometric pressure, recorded	29.59
T(db) F: 75.5	Barometric Pressure, corrected	29.46 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	7490	1118	230.6	2.04	493	15.2	0	12700	25.8	39
0.05	7160	1116	230.5	2.07	506	14.2	12	12200	24	42
0.10	6770	1114	230.5	2.08	524	12.9	25	11500	21.9	46
0.15	6340	1112	230.5	2.10	524	12.1	37	10800	20.5	49
0.20	5780	1110	230.3	2.11	542	10.7	50	9800	18.1	55
0.25	5170	1111	230.3	2.11	527	9.8	62	8800	16.7	60
0.30	3020	1112	230.5	2.10	524	5.8	75	5100	9.8	102

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Project Number: 14130  
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<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan</i>		Make- <i>Multifan</i>		Material- <i>aluminum</i>	
Model- <i>C6E63K1M10341</i>		Model- <i>M6E63K3</i>		# Doors- <i>7</i>	
Blade dia.- <i>25.4"</i>		Hp- <i>0</i>		# Columns- <i>1</i>	
Orifice dia.- <i>25.9"</i>		RPM- <i>0</i>		Door length <i>29.7"</i>	
		Volts- <i>0</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>0</i>			
Number- <i>5</i>		Hz- <i>1</i>		<b>Guards:</b>	
Shape- <i>propeller</i>		Phase- <i>0</i>		Description- <i>wire</i>	
Material- <i>plastic</i>		S. F.- <i>0</i>		Spacing- <i>0.9"</i>	
Pitch- <i>-</i>				Location- <i>exhaust</i>	
Clearance- <i>0.3"</i>		<b>Housing:</b>			
		Material- <i>fiberglass</i>		<b>Discharge Cone:</b>	
<b>Drive Sheaves:</b>		Intake area- <i>28.8" x 28.8"</i>		Depth- <i>19"</i>	
Drive dia.- <i>direct</i>		Discharge- <i>25.9" dia.</i>		Minor dia.- <i>25.9"</i>	
Axle dia.- <i>drive</i>		Depth- <i>20"</i>		Major dia.- <i>35.3"</i>	

Notes: 0

**Test Conditions:**

T(wb) F: 52.5	Barometric pressure, recorded	29.65
T(db) F: 75	Barometric Pressure, corrected	29.53 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	7700	1085	229.9	2.86	658	11.7	0	13100	19.9	50
0.05	7530	1080	230.1	2.92	672	11.2	12	12800	19	53
0.10	7320	1075	230.4	2.97	685	10.7	25	12400	18.2	55
0.15	7040	1067	230.3	3.04	701	10.0	37	12000	17.1	59
0.20	6730	1060	230.3	3.11	715	9.4	50	11400	16	62
0.25	6370	1051	230.6	3.19	733	8.7	62	10800	14.8	68
0.30	5850	1042	230.6	3.26	749	7.8	75	9900	13.3	75
0.40	4800	1049	230.1	3.20	735	6.5	100	8200	11.1	90
0.50	2700	1035	230.1	3.30	756	3.6	125	4600	6.1	163

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Project Number: 14131  
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<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan</i>	Make- <i>Multifan</i>	Material- <i>Plastic</i>
Model- <i>C6E63K1M10338</i>	Model- <i>M6E63K3</i>	# Doors- <i>8 per column</i>
Blade dia.- <i>25.4"</i>	Hp- <i>0</i>	# Columns- <i>2</i>
Orifice dia.- <i>25.9"</i>	RPM- <i>0</i>	Door length <i>13.8"</i>
	Volts- <i>0</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>0</i>	
Number- <i>5</i>	Hz- <i>1</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>0</i>	Description- <i>wire</i>
Material- <i>plastic</i>	S. F.- <i>0</i>	Spacing- <i>0.9"</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.3"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>28.2" x 28.2"</i>	Depth- <i>19"</i>
Drive dia.- <i>direct</i>	Discharge- <i>25.9" dia.</i>	Minor dia.- <i>25.9"</i>
Axle dia.- <i>drive</i>	Depth- <i>20"</i>	Major dia.- <i>35.3"</i>

Notes: 0

**Test Conditions:**

T(wb) F: 52.5      Barometric pressure, recorded      29.65  
 T(db) F: 75      Barometric Pressure, corrected      29.53 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	7240	1079	230.8	2.94	678	10.7	0	12300	18.1	55
0.05	7020	1072	230.5	2.99	690	10.2	12	11900	17.3	58
0.10	6770	1067	230.4	3.05	702	9.6	25	11500	16.4	61
0.15	6470	1060	230.6	3.11	717	9.0	37	11000	15.3	65
0.20	6110	1052	229.8	3.17	728	8.4	50	10400	14.3	70
0.25	5680	1045	230.1	3.23	742	7.7	62	9600	13	77
0.30	5080	1042	230.2	3.26	746	6.8	75	8600	11.6	86
0.40	3500	1051	230.4	3.18	731	4.8	100	6000	8.2	123
0.50	2700	1033	230.4	3.35	765	3.6	125	4600	6	166
<b>208V</b>										
0.00	7000	1035	208.3	2.98	619	11.3	0	11900	19.2	52
0.05	6700	1024	208.5	3.06	633	10.6	12	11400	18	56
0.10	6400	1010	208.3	3.14	648	9.9	25	10900	16.8	60
0.15	6000	997	208.2	3.21	658	9.1	37	10200	15.5	65
0.20	5500	983	208.4	3.29	672	8.1	50	9300	13.8	72
0.25	4800	973	208.4	3.33	679	7.1	62	8200	12	83
0.30	3900	985	208.4	3.27	670	5.9	75	6700	10	100
0.40	2500	954	205.8	3.40	676	3.7	100	4200	6.2	161
0.50	1300	895	207.8	3.64	714	1.9	125	2300	3.2	312

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 Test Date: February 25, 2014

<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan</i>		Make- <i>Multifan</i>		Material- <i>aluminum</i>	
Model- <i>C6D63K1M10341</i>		Model- <i>M6D9200M60100</i>		# Doors- <i>7</i>	
Blade dia.- <i>25.4"</i>		Hp- <i>0.83 kW</i>		# Columns- <i>1</i>	
Orifice dia.- <i>25.9"</i>		RPM- <i>900</i>		Door length <i>29.7"</i>	
		Volts- <i>230 / 400</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>2.6 / 1.5</i>			
Number- <i>5</i>		Hz- <i>50</i>		<b>Guards:</b>	
Shape- <i>propeller</i>		Phase- <i>3</i>		Description- <i>wire</i>	
Material- <i>plastic</i>		S. F.- <i>-</i>		Spacing- <i>0.9"</i>	
Pitch- <i>-</i>				Location- <i>exhaust</i>	
Clearance- <i>0.3"</i>		<b>Housing:</b>			
		Material- <i>fiberglass</i>		<b>Discharge Cone:</b>	
<b>Drive Sheaves:</b>		Intake area- <i>28.8" x 28.8"</i>		Depth- <i>19"</i>	
Drive dia.- <i>direct</i>		Discharge- <i>25.9" dia.</i>		Minor dia.- <i>25.9"</i>	
Axle dia.- <i>drive</i>		Depth- <i>20"</i>		Major dia.- <i>35.3"</i>	

Notes: \*60 Hz test

Test Conditions:

T(wb) F: 53.5	Barometric pressure, recorded	29.59
T(db) F: 76.5	Barometric Pressure, corrected	29.46 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	7680	1086	230.0	2.35	644	11.9	0	13000	20.3	49
0.05	7450	1080	229.5	2.40	664	11.2	12	12700	19.1	52
0.10	7320	1079	231.1	2.43	683	10.7	25	12400	18.2	55
0.15	7010	1072	229.6	2.48	697	10.1	37	11900	17.1	58
0.20	6810	1067	229.6	2.52	717	9.5	50	11600	16.1	62
0.25	6380	1061	230.4	2.58	739	8.6	62	10800	14.7	68
0.30	6030	1055	230.1	2.62	753	8.0	75	10200	13.6	74
0.40	4870	1056	230.0	2.60	747	6.5	100	8300	11.1	90
0.50	2920	1053	230.5	2.64	762	3.8	125	5000	6.5	154



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Project Number: 14143  
 Test Date: February 25, 2014

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan</i>	Make- <i>Multifan</i>	Material- <i>Plastic</i>
Model- <i>C6D63K1M10338</i>	Model- <i>M6D9200M60100</i>	# Doors- <i>8 per column</i>
Blade dia.- <i>25.4"</i>	Hp- <i>0.83 kW</i>	# Columns- <i>2</i>
Orifice dia.- <i>25.9"</i>	RPM- <i>900</i>	Door length <i>13.8"</i>
	Volts- <i>230 / 400</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>2.6 / 1.5</i>	
Number- <i>5</i>	Hz- <i>50</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>3</i>	Description- <i>wire</i>
Material- <i>plastic</i>	S. F.- <i>-</i>	Spacing- <i>0.9"</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.3"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>28.2" x 28.2"</i>	Depth- <i>19"</i>
Drive dia.- <i>direct</i>	Discharge- <i>25.9" dia.</i>	Minor dia.- <i>25.9"</i>
Axle dia.- <i>drive</i>	Depth- <i>20"</i>	Major dia.- <i>35.3"</i>

Notes: \*60 Hz test

**Test Conditions:**

T(wb) F: 53.5	Barometric pressure, recorded	29.59
T(db) F: 76.5	Barometric Pressure, corrected	29.46 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	7290	1079	230.5	2.39	662	11.0	0	12400	18.7	53
0.05	7010	1073	230.0	2.44	682	10.3	12	11900	17.5	57
0.10	6800	1069	230.1	2.47	700	9.7	25	11600	16.5	61
0.15	6480	1064	230.0	2.52	717	9.0	37	11000	15.4	65
0.20	6160	1059	230.1	2.56	735	8.4	50	10500	14.2	70
0.25	5730	1056	230.1	2.59	745	7.7	62	9700	13.1	76
0.30	5250	1053	229.6	2.62	753	7.0	75	8900	11.8	84
0.40	3630	1059	230.0	2.56	735	4.9	100	6200	8.4	119
0.50	2890	1047	229.8	2.67	770	3.7	125	4900	6.4	157

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Project Number: 13645  
 Test Date: December 11, 2013

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan</i>	Make- <i>Multifan</i>	Material- <i>aluminum</i>
Model- <i>C8E92K0M10241</i>	Model- <i>M8E92K3M10100</i>	# Doors- <i>11 per column</i>
Blade dia.- <i>36.2"</i>	Hp- <i>0.71 (0.53 kW)</i>	# Columns- <i>2</i>
Orifice dia.- <i>36.5"</i>	RPM- <i>795</i>	Door length <i>21.9"</i>
	Volts- <i>240</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>4.1</i>	
Number- <i>3</i>	Hz- <i>60</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>1</i>	Description- <i>wire</i>
Material- <i>poly w/ alum hub</i>	S. F.- <i>-</i>	Spacing- <i>0.9" concentric</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.2"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>43.1" x 43.1"</i>	Depth- <i>26"</i>
Drive dia.- <i>direct</i>	Discharge- <i>36.5" dia.</i>	Minor dia.- <i>36.5"</i>
Axle dia.- <i>drive</i>	Depth- <i>26"</i>	Major dia.- <i>50.6"</i>
	<i>0</i>	

Notes: 0

**Test Conditions:**  
 T(wb) F: 53 Barometric pressure, recorded 29.65  
 T(db) F: 75.5 Barometric Pressure, corrected 29.52 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	12570	816	230.3	3.53	733	17.1	0	21400	29.1	34
0.05	11880	810	230.8	3.64	754	15.8	12	20200	26.8	37
0.10	11230	802	229.3	3.71	771	14.6	25	19100	24.7	40
0.15	10330	794	230.4	3.81	796	13.0	37	17600	22.1	45
0.20	9180	790	230.6	3.90	813	11.3	50	15600	19.2	52
0.25	7630	794	230.6	3.84	796	9.6	62	13000	16.3	61
0.30	5940	798	230.6	3.77	788	7.5	75	10100	12.8	78

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Project Number: 13646  
 Test Date: December 11, 2013

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan</i>	Make- <i>Multifan</i>	Material- <i>Plastic</i>
Model- <i>C8E92K0M10238</i>	Model- <i>M8E92K3M10100</i>	# Doors- <i>13 per column</i>
Blade dia.- <i>36.2"</i>	Hp- <i>0.71 (0.53 kW)</i>	# Columns- <i>2</i>
Orifice dia.- <i>36.5"</i>	RPM- <i>795</i>	Door length <i>21"</i>
	Volts- <i>240</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>4.1</i>	
Number- <i>3</i>	Hz- <i>60</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>1</i>	Description- <i>wire</i>
Material- <i>poly w/ alum hub</i>	S. F.- <i>-</i>	Spacing- <i>0.9" concentric</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.2"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>42.5" x 42.5"</i>	Depth- <i>26"</i>
Drive dia.- <i>direct</i>	Discharge- <i>36.5" dia.</i>	Minor dia.- <i>36.5"</i>
Axle dia.- <i>drive</i>	Depth- <i>26"</i>	Major dia.- <i>50.6"</i>

Notes: 0

**Test Conditions:**

T(wb) F: 53      Barometric pressure, recorded      29.67  
 T(db) F: 76      Barometric Pressure, corrected      29.54 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	12030	808	229.8	3.59	744	16.2	0	20400	27.5	36
0.05	11240	800	229.5	3.70	769	14.6	12	19100	24.8	40
0.10	10450	794	229.7	3.78	788	13.3	25	17800	22.5	44
0.15	9330	788	230.2	3.86	805	11.6	37	15900	19.7	51
0.20	8160	789	230.4	3.84	804	10.2	50	13900	17.3	58
0.25	6530	793	230.2	3.78	788	8.3	62	11100	14.1	71
0.30	5090	796	230.6	3.74	780	6.5	75	8600	11.1	90

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Project Number: 13643  
 Test Date: December 11, 2013

<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan</i>		Make- <i>Multifan</i>		Material- <i>aluminum</i>	
Model- <i>C8D92KOM10241</i>		Model- <i>M8D92KOM60100</i>		# Doors- <i>11 per column</i>	
Blade dia.- <i>36.2"</i>		Hp- <i>0.760 kW</i>		# Columns- <i>2</i>	
Orifice dia.- <i>36.5"</i>		RPM- <i>820</i>		Door length <i>21.9"</i>	
		Volts- <i>230 / 400</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>3.7 / 2.2</i>			
Number- <i>3</i>		Hz- <i>60</i>		<b>Guards:</b>	
Shape- <i>propeller</i>		Phase- <i>3</i>		Description- <i>wire</i>	
Material- <i>poly w/ alum hub</i>		S. F.- <i>-</i>		Spacing- <i>0.9" concentric</i>	
Pitch- <i>-</i>				Location- <i>exhaust</i>	
Clearance- <i>0.2"</i>		<b>Housing:</b>			
		Material- <i>fiberglass</i>		<b>Discharge Cone:</b>	
<b>Drive Sheaves:</b>		Intake area- <i>43.1" x 43.1"</i>		Depth- <i>26"</i>	
Drive dia.- <i>direct</i>		Discharge- <i>36.5" dia.</i>		Minor dia.- <i>36.5"</i>	
Axle dia.- <i>drive</i>		Depth- <i>26"</i>		Major dia.- <i>50.6"</i>	
		<i>0</i>			

Notes: 0

**Test Conditions:**  
 T(wb) F: 52.5 Barometric pressure, recorded 29.62  
 T(db) F: 75.5 Barometric Pressure, corrected 29.49 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	12520	815	229.7	3.57	703	17.8	0	21300	30.3	33
0.05	11890	810	229.7	3.63	736	16.1	12	20200	27.4	36
0.10	11190	805	230.1	3.66	766	14.6	25	19000	24.8	40
0.15	10450	801	230.1	3.70	789	13.2	37	17800	22.5	44
0.20	9200	796	230.1	3.75	807	11.4	50	15600	19.4	52
0.25	7770	798	230.1	3.72	807	9.6	62	13200	16.4	61
0.30	6150	801	230.1	3.69	789	7.8	75	10400	13.2	76



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Project Number: 13652  
 Test Date: December 11, 2013

<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan</i>		Make- <i>Multifan</i>		Material- <i>aluminum</i>	
Model- <i>6D92-3PG-20/HP</i>		Proto <i>ST063012</i>		# Doors- <i>11 per column</i>	
Blade dia.- <i>36.2"</i>		Hp- <i>1.06</i>		# Columns- <i>2</i>	
Orifice dia.- <i>36.5"</i>		RPM- <i>1150</i>		Door length <i>21.9"</i>	
		Volts- <i>240 / 420</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>3.68 / 2.15</i>			
Number- <i>3</i>		Hz- <i>60</i>		<b>Guards:</b>	
Shape- <i>propeller</i>		Phase- <i>3</i>		Description- <i>wire</i>	
Material- <i>poly w/ alum hub</i>		S. F.- <i>-</i>		Spacing- <i>0.9" concentric</i>	
Pitch- <i>-</i>				Location- <i>exhaust</i>	
Clearance- <i>0.2"</i>		<b>Housing:</b>			
		Material- <i>fiberglass</i>		<b>Discharge Cone:</b>	
<b>Drive Sheaves:</b>		Intake area- <i>43.1" x 43.1"</i>		Depth- <i>26"</i>	
Drive dia.- <i>direct</i>		Discharge- <i>36.5" dia.</i>		Minor dia.- <i>36.5"</i>	
Axle dia.- <i>drive</i>		Depth- <i>26"</i>		Major dia.- <i>50.6"</i>	

Notes: 0

**Test Conditions:**  
 T(wb) F: 53.5 Barometric pressure, recorded 29.78  
 T(db) F: 76.5 Barometric Pressure, corrected 29.65 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	12840	1143	230.1	3.53	947	13.6	0	21800	23	43
0.05	12510	1141	230.1	3.57	967	12.9	12	21300	22	45
0.10	12200	1140	230.1	3.61	988	12.3	25	20700	21	48
0.15	11870	1138	230.1	3.66	1016	11.7	37	20200	19.8	50
0.20	11520	1137	230.1	3.70	1035	11.1	50	19600	18.9	53
0.25	11150	1135	230.1	3.75	1053	10.6	62	18900	18	56
0.30	10640	1132	230.0	3.81	1081	9.8	75	18100	16.7	60
0.40	9500	1128	229.6	3.94	1133	8.4	100	16100	14.2	70
0.50	8100	1126	229.6	3.97	1142	7.1	125	13700	12	83

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Project Number: 14441  
 Test Date: September 23, 2014

<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan</i>		Make- <i>MF-flex</i>		Material- <i>Aluminum</i>	
Model- <i>C4E1301 / ALU</i>		Model- <i>FM0335</i>		# Doors- <i>14 per column</i>	
Blade dia.- <i>50"</i>		Hp- <i>1.69 (1.26 kW)</i>		# Columns- <i>2</i>	
Orifice dia.- <i>51"</i>		RPM- <i>1710</i>		Door length <i>27.5"</i>	
		Volts- <i>240</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>6.9</i>		<b>Guards:</b>	
Number- <i>3</i>		Hz- <i>60</i>		Description- <i>wire</i>	
Shape- <i>propeller</i>		Phase- <i>1</i>		Spacing- <i>1.8" concentric</i>	
Material- <i>plastic</i>		S. F.- <i>-</i>		Location- <i>exhaust</i>	
Pitch- <i>-</i>		<b>Housing:</b>		<b>Discharge Cone:</b>	
Clearance- <i>0.5"</i>		Material- <i>fiberglass</i>		Depth- <i>38"</i>	
<b>Drive Sheaves:</b>		Intake area- <i>54.4" x 54.4"</i>		Minor dia.- <i>51"</i>	
Drive dia.- <i>4.1" o.d.</i>		Discharge- <i>51" dia.</i>		Major dia.- <i>69"</i>	
Axle dia.- <i>11.9" o.d.</i>		Depth- <i>28"</i>			

Notes: 0

Test Conditions:

T(wb) F: 60	Barometric pressure, recorded	29.67
T(db) F: 76.5	Barometric Pressure, corrected	29.54 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	29900	595	229.5	7.02	1608	18.6	0	50900	31.6	32
0.05	28700	592	229.9	7.28	1670	17.2	12	48700	29.2	34
0.10	27300	590	229.9	7.52	1726	15.8	25	46400	26.9	37
0.15	25900	588	229.5	7.76	1778	14.6	37	44000	24.7	40
0.20	24000	587	230.3	7.95	1828	13.1	50	40800	22.3	45
0.25	21700	586	230.6	8.12	1869	11.6	62	36900	19.7	51
0.30	16400	586	230.5	8.11	1866	8.8	75	27900	15	67

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Project Number: 14442  
 Test Date: September 23, 2014

<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan</i>		Make- <i>MF-flex</i>		Material- <i>PVC</i>	
Model- <i>C4E1301 / PVC</i>		Model- <i>FM0335</i>		# Doors- <i>19 per column</i>	
Blade dia.- <i>50"</i>		Hp- <i>1.69 (1.26 kW)</i>		# Columns- <i>2</i>	
Orifice dia.- <i>51"</i>		RPM- <i>1710</i>		Door length <i>17.3"</i>	
		Volts- <i>240</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>6.9</i>		<b>Guards:</b>	
Number- <i>3</i>		Hz- <i>60</i>		Description- <i>wire</i>	
Shape- <i>propeller</i>		Phase- <i>1</i>		Spacing- <i>1.8" concentric</i>	
Material- <i>plastic</i>		S. F.- <i>-</i>		Location- <i>exhaust</i>	
Pitch- <i>-</i>		<b>Housing:</b>		<b>Discharge Cone:</b>	
Clearance- <i>0.5"</i>		Material- <i>fiberglass</i>		Depth- <i>38"</i>	
<b>Drive Sheaves:</b>		Intake area- <i>54.4" x 54.4"</i>		Minor dia.- <i>51"</i>	
Drive dia.- <i>4.1" o.d.</i>		Discharge- <i>51" dia.</i>		Major dia.- <i>69"</i>	
Axle dia.- <i>11.9" o.d.</i>		Depth- <i>28"</i>			

Notes: 0

Test Conditions:

T(wb) F: 60	Barometric pressure, recorded	29.67
T(db) F: 76.5	Barometric Pressure, corrected	29.54 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	29500	596	229.9	7.19	1649	17.9	0	50100	30.4	33
0.05	28200	594	230.0	7.49	1720	16.4	12	47900	27.8	36
0.10	26600	592	229.9	7.77	1782	14.9	25	45100	25.3	39
0.15	24500	590	229.8	7.96	1824	13.5	37	41700	22.9	44
0.20	22300	588	229.7	8.08	1853	12.0	50	37900	20.4	49
0.25	17700	588	229.9	8.11	1861	9.5	62	30100	16.2	62
0.30	10600	591	230.9	7.66	1766	6.0	75	18000	10.2	98



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Project Number: 14406  
 Test Date: July 30, 2014

<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan</i>		Make- <i>MF-flex</i>		Material- <i>Aluminum</i>	
Model- <i>C4D1307 / ALU</i>		Model- <i>FM0336</i>		# Doors- <i>14 per column</i>	
Blade dia.- <i>50"</i>		Hp- <i>1.61 (1.20 kW)</i>		# Columns- <i>2</i>	
Orifice dia.- <i>51"</i>		RPM- <i>1760</i>		Door length <i>27.5"</i>	
		Volts- <i>240 / 420</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>4.6 / 2.7</i>			
Number- <i>3</i>		Hz- <i>60</i>		<b>Guards:</b>	
Shape- <i>propeller</i>		Phase- <i>3</i>		Description- <i>wire</i>	
Material- <i>plastic</i>		S. F.- <i>-</i>		Spacing- <i>1.8" concentric</i>	
Pitch- <i>-</i>				Location- <i>exhaust</i>	
Clearance- <i>0.5"</i>		<b>Housing:</b>			
		Material- <i>fiberglass</i>		<b>Discharge Cone:</b>	
<b>Drive Sheaves:</b>		Intake area- <i>54.4" x 54.4"</i>		Depth- <i>38"</i>	
Drive dia.- <i>4.2" o.d.</i>		Discharge- <i>51" dia.</i>		Minor dia.- <i>51"</i>	
Axle dia.- <i>11.9" o.d.</i>		Depth- <i>28"</i>		Major dia.- <i>69"</i>	

Notes: 0

**Test Conditions:**

T(wb) F: 64	Barometric pressure, recorded	29.42
T(db) F: 78	Barometric Pressure, corrected	29.29 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	30000	613	230.7	4.75	1532	19.6	0	51100	33.3	30
0.05	28900	611	229.6	4.91	1595	18.1	12	49100	30.8	32
0.10	27600	610	230.0	5.04	1657	16.7	25	46900	28.3	35
0.15	26000	609	229.3	5.19	1712	15.2	37	44200	25.8	39
0.20	24400	608	229.5	5.28	1751	13.9	50	41500	23.7	42
0.25	22100	608	229.5	5.33	1776	12.5	62	37600	21.2	47
0.30	18300	608	229.6	5.33	1773	10.3	75	31200	17.6	57

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Project Number: 14411  
 Test Date: July 31, 2014

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan</i>	Make- <i>MF-flex</i>	Material- <i>PVC</i>
Model- <i>C4D1307 / PVC</i>	Model- <i>FM0336</i>	# Doors- <i>19 per column</i>
Blade dia.- <i>50"</i>	Hp- <i>1.61 (1.20 kW)</i>	# Columns- <i>3</i>
Orifice dia.- <i>51"</i>	RPM- <i>1760</i>	Door length <i>17.3"</i>
	Volts- <i>240 / 420</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>4.6 / 2.7</i>	
Number- <i>3</i>	Hz- <i>60</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>3</i>	Description- <i>wire</i>
Material- <i>plastic</i>	S. F.- <i>-</i>	Spacing- <i>1.8" concentric</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.5"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>53.7" x 53.7"</i>	Depth- <i>38"</i>
Drive dia.- <i>4.2" o.d.</i>	Discharge- <i>51" dia.</i>	Minor dia.- <i>51"</i>
Axle dia.- <i>11.9" o.d.</i>	Depth- <i>28"</i>	Major dia.- <i>69"</i>

Notes: 0

**Test Conditions:**

T(wb) F: 64	Barometric pressure, recorded	29.46
T(db) F: 78.5	Barometric Pressure, corrected	29.33 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	30000	612	230.2	4.77	1539	19.5	0	51000	33.1	30
0.05	28700	610	230.0	4.92	1603	17.9	12	48800	30.5	33
0.10	27300	609	230.0	5.08	1669	16.3	25	46300	27.8	36
0.15	25300	608	229.6	5.22	1729	14.6	37	43000	24.9	40
0.20	23100	607	229.1	5.31	1764	13.1	50	39200	22.2	45
0.25	19300	607	230.0	5.31	1771	10.9	62	32800	18.5	54
0.30	12000	609	230.9	5.09	1682	7.2	75	20500	12.2	82

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Project Number: 15171  
 Test Date: April 7, 2015

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan Vostermans</i>	Make- <i>Regal Beloit</i>	Material- <i>Aluminum</i>
Model- <i>C4E1302 / ALU</i>	Model- <i>sample x-0008762</i>	# Doors- <i>14 per column</i>
Blade dia.- <i>50"</i>	Hp- <i>3.0</i>	# Columns- <i>2</i>
Orifice dia.- <i>51"</i>	RPM- <i>1725</i>	Door length <i>27.5"</i>
	Volts- <i>208 - 230</i>	Location- <i>intake</i>
	Amps- <i>13.5</i>	
<b>Blade:</b>	Hz- <i>60</i>	<b>Guards:</b>
Number- <i>3</i>	Phase- <i>1</i>	Description- <i>wire</i>
Shape- <i>propeller</i>	S. F.- <i>-</i>	Spacing- <i>1.8" concentric</i>
Material- <i>plastic</i>		Location- <i>exhaust</i>
Pitch- <i>-</i>		
Clearance- <i>0.5"</i>	<b>Housing:</b>	<b>Discharge Cone:</b>
	Material- <i>fiberglass</i>	Depth- <i>38"</i>
<b>Drive Sheaves:</b>	Intake area- <i>53.6" x 53.7"</i>	Minor dia.- <i>51"</i>
Drive dia.- <i>4.5" o.d.</i>	Discharge- <i>51" dia.</i>	Major dia.- <i>69"</i>
Axle dia.- <i>11.9" o.d.</i>	Depth- <i>28"</i>	

Notes: 0

**Test Conditions:**

T(wb) F: 65	Barometric pressure, recorded	29.38
T(db) F: 79	Barometric Pressure, corrected	29.25 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	32500	655	230.6	9.93	2037	16.0	0	55200	27.1	37
0.05	31500	654	230.0	10.18	2099	15.0	12	53600	25.5	39
0.10	30400	653	229.9	10.46	2167	14.0	25	51600	23.8	42
0.15	29100	652	229.6	10.69	2223	13.1	37	49400	22.2	45
0.20	27600	651	229.5	10.89	2272	12.2	50	47000	20.7	48
0.25	26100	651	229.7	11.07	2316	11.2	62	44300	19.1	52
0.30	23800	651	230.2	11.23	2358	10.1	75	40500	17.2	58

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Project Number: 15172  
 Test Date: April 7, 2015

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan Vostermans</i>	Make- <i>Regal Beloit</i>	Material- <i>Plastic</i>
Model- <i>C4E1302 / PVC</i>	Model- <i>sample x-0008762</i>	# Doors- <i>19 per column</i>
Blade dia.- <i>50"</i>	Hp- <i>3.0</i>	# Columns- <i>3</i>
Orifice dia.- <i>51"</i>	RPM- <i>1725</i>	Door length <i>17.3"</i>
	Volts- <i>208 - 230</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>13.5</i>	
Number- <i>3</i>	Hz- <i>60</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>1</i>	Description- <i>wire</i>
Material- <i>plastic</i>	S. F.- <i>-</i>	Spacing- <i>1.8" concentric</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.5"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>53.6" x 53.7"</i>	Depth- <i>38"</i>
Drive dia.- <i>4.5" o.d.</i>	Discharge- <i>51" dia.</i>	Minor dia.- <i>51"</i>
Axle dia.- <i>11.9" o.d.</i>	Depth- <i>28"</i>	Major dia.- <i>69"</i>

Notes: 0

**Test Conditions:**

T(wb) F: 65	Barometric pressure, recorded	29.38
T(db) F: 79	Barometric Pressure, corrected	29.25 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	32000	654	230.9	10.13	2087	15.3	0	54400	26.1	38
0.05	30800	653	228.1	10.28	2127	14.5	12	52400	24.6	41
0.10	29700	652	230.3	10.60	2204	13.5	25	50400	22.9	44
0.15	28200	652	230.0	10.84	2263	12.5	37	47900	21.2	47
0.20	26400	651	230.1	11.03	2307	11.5	50	44900	19.5	51
0.25	24200	651	229.9	11.16	2341	10.3	62	41200	17.6	57
0.30	21200	651	229.7	11.18	2345	9.0	75	36100	15.4	65

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Project Number: 14424  
 Test Date: August 1, 2014

<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan</i>		Make- <i>MF-flex</i>		Material- <i>Aluminum</i>	
Model- <i>C4D1304 / ALU</i>		Model- <i>FM0338</i>		# Doors- <i>14 per column</i>	
Blade dia.- <i>50"</i>		Hp- <i>2.42 (1.80 kW)</i>		# Columns- <i>2</i>	
Orifice dia.- <i>51"</i>		RPM- <i>1745</i>		Door length <i>27.5"</i>	
		Volts- <i>240 / 420</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>6.8 / 4.0</i>			
Number- <i>3</i>		Hz- <i>60</i>		<b>Guards:</b>	
Shape- <i>propeller</i>		Phase- <i>3</i>		Description- <i>wire</i>	
Material- <i>plastic</i>		S. F.- <i>-</i>		Spacing- <i>1.8" concentric</i>	
Pitch- <i>-</i>				Location- <i>exhaust</i>	
Clearance- <i>0.5"</i>		<b>Housing:</b>			
		Material- <i>fiberglass</i>		<b>Discharge Cone:</b>	
<b>Drive Sheaves:</b>		Intake area- <i>54.4" x 54.4"</i>		Depth- <i>38"</i>	
Drive dia.- <i>4.5" o.d.</i>		Discharge- <i>51" dia.</i>		Minor dia.- <i>51"</i>	
Axle dia.- <i>11.9" o.d.</i>		Depth- <i>28"</i>		Major dia.- <i>69"</i>	

Notes: 0

**Test Conditions:**

T(wb) F: 64.5	Barometric pressure, recorded	29.45
T(db) F: 78	Barometric Pressure, corrected	29.32 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	32300	649	230.5	6.02	1813	17.8	0	55000	30.3	33
0.05	31200	648	230.1	6.20	1888	16.6	12	53100	28.1	36
0.10	30000	647	229.6	6.35	1959	15.3	25	51100	26.1	38
0.15	28800	646	229.9	6.50	2028	14.2	37	48900	24.1	42
0.20	27300	645	229.6	6.61	2075	13.2	50	46500	22.4	45
0.25	25500	645	230.1	6.72	2123	12.0	62	43400	20.4	49
0.30	23400	644	230.0	6.79	2152	10.9	75	39800	18.5	54
0.35	19700	644	230.0	6.81	2159	9.1	87	33500	15.5	64
0.40	5100	645	230.0	6.61	2086	2.4	100	8600	4.1	243

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Project Number: 14425  
 Test Date: August 1, 2014

<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan</i>		Make- <i>MF-flex</i>		Material- <i>PVC</i>	
Model- <i>C4D1304 / PVC</i>		Model- <i>FM0338</i>		# Doors- <i>19 per column</i>	
Blade dia.- <i>50"</i>		Hp- <i>2.42 (1.80 kW)</i>		# Columns- <i>3</i>	
Orifice dia.- <i>51"</i>		RPM- <i>1745</i>		Door length <i>17.3"</i>	
		Volts- <i>240 / 420</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>6.8 / 4.0</i>			
Number- <i>3</i>		Hz- <i>60</i>		<b>Guards:</b>	
Shape- <i>propeller</i>		Phase- <i>3</i>		Description- <i>wire</i>	
Material- <i>plastic</i>		S. F.- <i>-</i>		Spacing- <i>1.8" concentric</i>	
Pitch- <i>-</i>				Location- <i>exhaust</i>	
Clearance- <i>0.5"</i>		<b>Housing:</b>			
		Material- <i>fiberglass</i>		<b>Discharge Cone:</b>	
<b>Drive Sheaves:</b>		Intake area- <i>54.4" x 54.4"</i>		Depth- <i>38"</i>	
Drive dia.- <i>4.5" o.d.</i>		Discharge- <i>51" dia.</i>		Minor dia.- <i>51"</i>	
Axle dia.- <i>11.9" o.d.</i>		Depth- <i>28"</i>		Major dia.- <i>69"</i>	

Notes: 0

**Test Conditions:**

T(wb) F: 64	Barometric pressure, recorded	29.45
T(db) F: 77	Barometric Pressure, corrected	29.32 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	32000	648	229.9	6.12	1862	17.2	0	54300	29.2	34
0.05	30700	647	229.2	6.28	1936	15.9	12	52200	27	37
0.10	29500	646	231.3	6.42	2006	14.7	25	50100	25	40
0.15	28100	645	230.0	6.53	2063	13.6	37	47700	23.1	43
0.20	26000	644	230.1	6.64	2110	12.3	50	44100	20.9	48
0.25	23800	644	230.3	6.70	2141	11.1	62	40400	18.9	53
0.30	20100	644	230.2	6.69	2137	9.4	75	34100	16	63
0.35	11100	646	231.2	6.41	2018	5.5	87	18800	9.3	107
0.40	6300	645	229.6	6.55	2055	3.1	100	10700	5.2	192

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Project Number: 13653  
 Test Date: December 11, 2013

<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan</i>		Make- <i>Multifan</i>		Material- <i>Plastic</i>	
Model- <i>6D92-3PG-20/HP</i>		Proto <i>ST063012</i>		# Doors- <i>13 per column</i>	
Blade dia.- <i>36.2"</i>		Hp- <i>1.06</i>		# Columns- <i>2</i>	
Orifice dia.- <i>36.5"</i>		RPM- <i>1150</i>		Door length <i>21"</i>	
		Volts- <i>240 / 420</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>3.68 / 2.15</i>		<b>Guards:</b>	
Number- <i>3</i>		Hz- <i>60</i>		Description- <i>wire</i>	
Shape- <i>propeller</i>		Phase- <i>3</i>		Spacing- <i>0.9" concentric</i>	
Material- <i>poly w/ alum hub</i>		S. F.- <i>-</i>		Location- <i>exhaust</i>	
Pitch- <i>-</i>		<b>Housing:</b>		<b>Discharge Cone:</b>	
Clearance- <i>0.2"</i>		Material- <i>fiberglass</i>		Depth- <i>26"</i>	
<b>Drive Sheaves:</b>		Intake area- <i>42.5" x 42.5"</i>		Minor dia.- <i>36.5"</i>	
Drive dia.- <i>direct</i>		Discharge- <i>36.5" dia.</i>		Major dia.- <i>50.6"</i>	
Axle dia.- <i>drive</i>		Depth- <i>26"</i>			

Notes: 0

**Test Conditions:**

T(wb) F: 53.5      Barometric pressure, recorded      29.78  
 T(db) F: 77      Barometric Pressure, corrected      29.65 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	12710	1140	229.4	3.55	964	13.2	0	21600	22.4	45
0.05	12320	1139	230.5	3.60	981	12.6	12	20900	21.3	47
0.10	11950	1137	231.0	3.63	999	12.0	25	20300	20.3	49
0.15	11600	1136	230.6	3.67	1018	11.4	37	19700	19.4	52
0.20	11220	1133	229.9	3.72	1035	10.8	50	19100	18.4	54
0.25	10760	1131	229.4	3.77	1069	10.1	62	18300	17.1	58
0.30	10250	1129	229.6	3.84	1091	9.4	75	17400	16	63
0.40	8900	1126	229.6	3.94	1136	7.8	100	15100	13.3	75
0.50	7500	1126	229.6	3.92	1124	6.7	125	12700	11.3	88

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Project Number: 15302  
 Test Date: June 26, 2015

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan Vostermans</i>	Make- <i>MF-flex</i>	Material- <i>Aluminum</i>
Model- <i>C4E1401 / AL</i>	Model- <i>FM0335</i>	# Doors- <i>15 per column</i>
Blade dia.- <i>54.4"</i>	Hp- <i>1.69 (1.26 kW)</i>	# Columns- <i>2</i>
Orifice dia.- <i>54.8"</i>	RPM- <i>1710</i>	Door length <i>31"</i>
	Volts- <i>240</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>6.9</i>	
Number- <i>3</i>	Hz- <i>60</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>1</i>	Description- <i>wire</i>
Material- <i>plastic</i>	S. F.- <i>-</i>	Spacing- <i>4.8" concentric</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.2"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>61.3" x 61.3"</i>	Depth- <i>40.3"</i>
Drive dia.- <i>3.7" o.d. (SPA 87)</i>	Discharge- <i>54.8" dia.</i>	Minor dia.- <i>54.7"</i>
Axle dia.- <i>11.9" o.d.</i>	Depth- <i>29"</i>	Major dia.- <i>73.3"</i>

Notes: 0

**Test Conditions:**

T(wb) F: 65.5	Barometric pressure, recorded	29.33
T(db) F: 78	Barometric Pressure, corrected	29.20 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	31100	520	230.6	5.52	1266	24.5	0	52800	41.7	24
0.05	29300	518	229.3	5.82	1329	22.1	12	49800	37.5	27
0.10	27800	517	230.5	6.05	1389	20.0	25	47200	34	29
0.15	25500	515	230.5	6.30	1446	17.7	37	43400	30	33
0.20	22300	513	229.4	6.54	1497	14.9	50	37800	25.3	40
0.25	6200	516	230.2	6.10	1400	4.4	62	10500	7.5	133
0.30	1000	516	229.7	6.11	1398	0.7	75	1700	1.2	819



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Project Number: 15303  
 Test Date: June 26, 2015

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan Vostermans</i>	Make- <i>MF-flex</i>	Material- <i>plastic</i>
Model- <i>C4E1401 / PVC</i>	Model- <i>FM0335</i>	# Doors- <i>16 per column</i>
Blade dia.- <i>54.4"</i>	Hp- <i>1.69 (1.26 kW)</i>	# Columns- <i>2</i>
Orifice dia.- <i>54.8"</i>	RPM- <i>1710</i>	Door length <i>30"</i>
	Volts- <i>240</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>6.9</i>	
Number- <i>3</i>	Hz- <i>60</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>1</i>	Description- <i>wire</i>
Material- <i>plastic</i>	S. F.- <i>-</i>	Spacing- <i>4.8" concentric</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.2"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>61.3" x 61.3"</i>	Depth- <i>40.3"</i>
Drive dia.- <i>3.7" o.d. (SPA 87)</i>	Discharge- <i>54.8" dia.</i>	Minor dia.- <i>54.7"</i>
Axle dia.- <i>11.9" o.d.</i>	Depth- <i>29"</i>	Major dia.- <i>73.3"</i>

Notes: 0

**Test Conditions:**

T(wb) F: 66.5	Barometric pressure, recorded	29.31
T(db) F: 79	Barometric Pressure, corrected	29.18 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	31100	521	229.7	5.45	1245	25.0	0	52800	42.4	24
0.05	29200	519	229.7	5.78	1323	22.1	12	49600	37.5	27
0.10	27000	517	230.2	6.08	1393	19.4	25	45900	32.9	30
0.15	24500	515	230.1	6.28	1441	17.0	37	41700	28.9	35
0.20	16100	515	230.2	6.31	1449	11.1	50	27400	18.9	53
0.25	6600	516	230.6	6.09	1397	4.7	62	11100	8	125

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Project Number: 15452  
 Test Date: August 18, 2015

<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan Vostermans</i>		Make- <i>Multifan</i>		Material- <i>Aluminum</i>	
Model- <i>C4D14K1</i>		Model- <i>FM0302</i>		# Doors- <i>15 per column</i>	
Blade dia.- <i>54.4"</i>		Hp- <i>1.65 / 1.10 kW</i>		# Columns- <i>2</i>	
Orifice dia.- <i>54.8"</i>		RPM- <i>1700</i>		Door length <i>31"</i>	
		Volts- <i>240 / 420</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>4.8 / 2.8</i>			
Number- <i>3</i>		Hz- <i>60</i>		<b>Guards:</b>	
Shape- <i>propeller</i>		Phase- <i>3</i>		Description- <i>wire</i>	
Material- <i>plastic</i>		S. F.- <i>1.1</i>		Spacing- <i>4.8" concentric</i>	
Pitch- <i>-</i>				Location- <i>exhaust</i>	
Clearance- <i>0.2"</i>		<b>Housing:</b>			
		Material- <i>fiberglass</i>		<b>Discharge Cone:</b>	
<b>Drive Sheaves:</b>		Intake area- <i>61.3" x 61.3"</i>		Depth- <i>40.3"</i>	
Drive dia.- <i>3.95" o.d.</i>		Discharge- <i>54.8" dia.</i>		Minor dia.- <i>54.7"</i>	
Axle dia.- <i>11.9" o.d.</i>		Depth- <i>29"</i>		Major dia.- <i>73.3"</i>	

Notes: 0

**Test Conditions:**

T(wb) F: 65	Barometric pressure, recorded	29.26
T(db) F: 78	Barometric Pressure, corrected	29.13 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	29200	557	231.8	3.53	1065	27.4	0	49700	46.6	21
0.05	27900	555	231.3	3.69	1143	24.4	12	47500	41.5	24
0.10	26500	553	231.3	3.85	1215	21.8	25	44900	37	27
0.15	24900	551	231.3	4.03	1295	19.2	37	42300	32.7	31
0.20	23000	549	231.3	4.21	1372	16.8	50	39100	28.5	35
0.25	21000	548	231.3	4.33	1421	14.8	62	35700	25.1	40
0.30	16500	548	231.2	4.37	1434	11.5	75	28000	19.5	51
0.35	9100	549	231.1	4.23	1374	6.6	87	15500	11.2	89

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Project Number: 15509  
 Test Date: September 16, 2015

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan Vostermans</i>	Make- <i>Multifan</i>	Material- <i>plastic</i>
Model- <i>C4D14K2</i>	Model- <i>FM0370</i>	# Doors- <i>16 per column</i>
Blade dia.- <i>54.4"</i>	Hp- <i>2.0 (1.5kW)</i>	# Columns- <i>2</i>
Orifice dia.- <i>54.8"</i>	RPM- <i>1740</i>	Door length <i>30.5"</i>
	Volts- <i>230 / 400</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>5.5 / 3.2</i>	
Number- <i>3</i>	Hz- <i>60</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>3</i>	Description- <i>wire</i>
Material- <i>plastic</i>	S. F.- <i>-</i>	Spacing- <i>4.8" concentric</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.2"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>61.3" x 61.3"</i>	Depth- <i>40.3"</i>
Drive dia.- <i>3.95" o.d.</i>	Discharge- <i>54.8" dia.</i>	Minor dia.- <i>54.7"</i>
Axle dia.- <i>11.9" o.d.</i>	Depth- <i>29"</i>	Major dia.- <i>73.3"</i>

Notes: 0

**Test Conditions:**

T(wb) F: 65	Barometric pressure, recorded	29.60
T(db) F: 78	Barometric Pressure, corrected	29.47 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	28800	575	230.5	3.89	1135	25.4	0	49000	43.2	23
0.05	27500	574	229.7	4.06	1211	22.7	12	46600	38.5	26
0.10	26600	573	230.8	4.21	1286	20.7	25	45100	35.1	29
0.15	24900	572	229.1	4.37	1351	18.4	37	42300	31.3	32
0.20	23000	570	229.1	4.51	1415	16.3	50	39100	27.6	36
0.25	18900	569	229.2	4.68	1485	12.7	62	32100	21.6	46
0.30	14900	569	229.5	4.62	1468	10.2	75	25400	17.3	58

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Project Number: 15465  
 Test Date: August 19, 2015

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan Vostermans</i>	Make- <i>Regal Beloit</i>	Material- <i>Aluminum</i>
Model- <i>C4E14K3</i>	Model- <i>C218</i>	# Doors- <i>15 per column</i>
Blade dia.- <i>54.4"</i>	Hp- <i>3.0</i>	# Columns- <i>2</i>
Orifice dia.- <i>54.8"</i>	RPM- <i>1725</i>	Door length <i>31"</i>
	Volts- <i>208-230</i>	Location- <i>intake</i>
	Amps- <i>13.5</i>	
<b>Blade:</b>	Hz- <i>60</i>	<b>Guards:</b>
Number- <i>3</i>	Phase- <i>1</i>	Description- <i>wire</i>
Shape- <i>propeller</i>	S. F.- <i>1.0</i>	Spacing- <i>4.8" concentric</i>
Material- <i>plastic</i>		Location- <i>exhaust</i>
Pitch- <i>-</i>		
Clearance- <i>0.2"</i>	<b>Housing:</b>	<b>Discharge Cone:</b>
	Material- <i>fiberglass</i>	Depth- <i>40.3"</i>
<b>Drive Sheaves:</b>	Intake area- <i>61.3" x 61.3"</i>	Minor dia.- <i>54.7"</i>
Drive dia.- <i>3.8" o.d.</i>	Discharge- <i>54.8" dia.</i>	Major dia.- <i>73.3"</i>
Axle dia.- <i>11.9" o.d.</i>	Depth- <i>29"</i>	

Notes: 0

**Test Conditions:**

T(wb) F: 66	Barometric pressure, recorded	29.16
T(db) F: 79	Barometric Pressure, corrected	29.03 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	34400	548	230.1	8.28	1604	21.4	0	58400	36.4	27
0.05	32900	547	229.8	8.58	1690	19.5	12	55900	33.1	30
0.10	31600	546	230.5	8.86	1760	18.0	25	53700	30.5	33
0.15	30100	546	230.3	9.13	1831	16.4	37	51100	27.9	36
0.20	28300	545	230.2	9.40	1904	14.9	50	48100	25.2	40
0.25	26100	544	230.2	9.64	1966	13.3	62	44400	22.6	44
0.30	21800	543	229.9	9.94	2040	10.7	75	37000	18.2	55
0.35	9200	544	230.3	9.82	2006	4.6	87	15600	7.8	128

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Project Number: 15464  
 Test Date: August 19, 2015

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan Vostermans</i>	Make- <i>Regal Beloit</i>	Material- <i>plastic</i>
Model- <i>C4E14K3</i>	Model- <i>C218</i>	# Doors- <i>21</i>
Blade dia.- <i>54.4"</i>	Hp- <i>3.0</i>	# Columns- <i>3</i>
Orifice dia.- <i>54.8"</i>	RPM- <i>1725</i>	Door length <i>19.6</i>
	Volts- <i>208-230</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>13.5</i>	
Number- <i>3</i>	Hz- <i>60</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>1</i>	Description- <i>wire</i>
Material- <i>plastic</i>	S. F.- <i>1.0</i>	Spacing- <i>4.8" concentric</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.2"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>61.3" x 61.3"</i>	Depth- <i>40.3"</i>
Drive dia.- <i>3.95" o.d.</i>	Discharge- <i>54.8" dia.</i>	Minor dia.- <i>54.7"</i>
Axle dia.- <i>11.9" o.d.</i>	Depth- <i>29"</i>	Major dia.- <i>73.3"</i>

Notes: 0

**Test Conditions:**

T(wb) F: 66	Barometric pressure, recorded	29.16
T(db) F: 79	Barometric Pressure, corrected	29.03 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	35800	577	230.9	9.19	1843	19.4	0	60900	33	30
0.05	34300	576	230.4	9.50	1925	17.8	12	58300	30.3	33
0.10	32800	575	230.2	9.86	2017	16.2	25	55700	27.6	36
0.15	31200	574	229.7	10.14	2089	14.9	37	53000	25.4	39
0.20	29500	573	229.7	10.43	2159	13.7	50	50100	23.2	43
0.25	27400	572	229.7	10.65	2215	12.4	62	46600	21	48
0.30	21800	571	229.7	10.89	2274	9.6	75	37000	16.3	61
0.35	18200	572	229.7	10.61	2202	8.2	87	30800	14	71
0.40	10300	571	230.2	10.79	2249	4.6	100	17500	7.8	129

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Project Number: 15501  
 Test Date: September 15, 2015

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan Vostermans</i>	Make- <i>Multifan</i>	Material- <i>Aluminum</i>
Model- <i>C4D14K3</i>	Model- <i>FM0370</i>	# Doors- <i>15</i>
Blade dia.- <i>54.4"</i>	Hp- <i>2.0 (1.5kW)</i>	# Columns- <i>2</i>
Orifice dia.- <i>54.8"</i>	RPM- <i>1740</i>	Door length <i>31"</i>
	Volts- <i>230 / 400</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>5.5 / 3.2</i>	
Number- <i>3</i>	Hz- <i>60</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>3</i>	Description- <i>wire</i>
Material- <i>plastic</i>	S. F.- <i>-</i>	Spacing- <i>4.8" concentric</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.2"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>61.3" x 61.3"</i>	Depth- <i>40.3"</i>
Drive dia.- <i>3.95 o.d.</i>	Discharge- <i>54.8" dia.</i>	Minor dia.- <i>54.7"</i>
Axle dia.- <i>11.9" o.d.</i>	Depth- <i>29"</i>	Major dia.- <i>73.3"</i>

Notes: 0

**Test Conditions:**

T(wb) F: 63	Barometric pressure, recorded	29.59
T(db) F: 79	Barometric Pressure, corrected	29.46 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	34800	556	229.8	4.70	1504	23.1	0	59100	39.3	25
0.05	33300	555	229.8	4.92	1599	20.8	12	56500	35.3	28
0.10	31900	553	229.9	5.10	1677	19.0	25	54300	32.3	31
0.15	30500	552	229.7	5.27	1745	17.5	37	51800	29.7	34
0.20	28800	550	229.4	5.46	1820	15.8	50	49000	26.9	37
0.25	26700	548	229.4	5.63	1884	14.2	62	45400	24.1	42
0.30	23700	546	229.3	5.81	1961	12.1	75	40300	20.6	49

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Project Number: 15445  
 Test Date: August 18, 2015

<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan Vostermans</i>		Make- <i>Multifan</i>		Material- <i>plastic</i>	
Model- <i>C4D14K3</i>		Model- <i>FM0370</i>		# Doors- <i>21</i>	
Blade dia.- <i>54.4"</i>		Hp- <i>2.0 (1.5kW)</i>		# Columns- <i>3</i>	
Orifice dia.- <i>54.8"</i>		RPM- <i>1740</i>		Door length <i>19.6</i>	
		Volts- <i>230 / 400</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>5.5 / 3.2</i>		<b>Guards:</b>	
Number- <i>3</i>		Hz- <i>60</i>		Description- <i>wire</i>	
Shape- <i>propeller</i>		Phase- <i>3</i>		Spacing- <i>4.8" concentric</i>	
Material- <i>plastic</i>		S. F.- <i>-</i>		Location- <i>exhaust</i>	
Pitch- <i>-</i>		<b>Housing:</b>		<b>Discharge Cone:</b>	
Clearance- <i>0.2"</i>		Material- <i>fiberglass</i>		Depth- <i>40.3"</i>	
<b>Drive Sheaves:</b>		Intake area- <i>61.3" x 61.3"</i>		Minor dia.- <i>54.7"</i>	
Drive dia.- <i>3.95" o.d.</i>		Discharge- <i>54.8" dia.</i>		Major dia.- <i>73.3"</i>	
Axle dia.- <i>11.9" o.d.</i>		Depth- <i>29"</i>			

Notes: 0

**Test Conditions:**

T(wb) F: 66.5	Barometric pressure, recorded	29.30
T(db) F: 79	Barometric Pressure, corrected	29.17 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	34800	556	230.9	4.81	1554	22.4	0	59200	38.1	26
0.05	33200	555	230.9	5.04	1648	20.2	12	56500	34.3	29
0.10	31500	553	230.5	5.28	1744	18.0	25	53500	30.7	33
0.15	29800	552	230.0	5.47	1824	16.3	37	50600	27.8	36
0.20	27900	551	230.5	5.63	1889	14.8	50	47400	25.1	40
0.25	22700	549	230.6	5.81	1966	11.6	62	38600	19.6	51
0.30	18700	550	230.8	5.73	1938	9.6	75	31800	16.4	61

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Project Number: 15466  
 Test Date: August 19, 2015

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan Vostermans</i>	Make- <i>Regal Beloit</i>	Material- <i>Aluminum</i>
Model- <i>C4E14K4</i>	Model- <i>C218</i>	# Doors- <i>15 per column</i>
Blade dia.- <i>54.4"</i>	Hp- <i>3.0</i>	# Columns- <i>2</i>
Orifice dia.- <i>54.8"</i>	RPM- <i>1725</i>	Door length <i>31"</i>
	Volts- <i>208-230</i>	Location- <i>intake</i>
<b>Blade:</b>	Amps- <i>13.5</i>	
Number- <i>6</i>	Hz- <i>60</i>	<b>Guards:</b>
Shape- <i>propeller</i>	Phase- <i>1</i>	Description- <i>wire</i>
Material- <i>plastic</i>	S. F.- <i>1.0</i>	Spacing- <i>4.8" concentric</i>
Pitch- <i>-</i>		Location- <i>exhaust</i>
Clearance- <i>0.2"</i>	<b>Housing:</b>	
	Material- <i>fiberglass</i>	<b>Discharge Cone:</b>
<b>Drive Sheaves:</b>	Intake area- <i>61.3" x 61.3"</i>	Depth- <i>40.3"</i>
Drive dia.- <i>3.95" o.d.</i>	Discharge- <i>54.8" dia.</i>	Minor dia.- <i>54.7"</i>
Axle dia.- <i>11.9" o.d.</i>	Depth- <i>29"</i>	Major dia.- <i>73.3"</i>

Notes: 0

**Test Conditions:**

T(wb) F: 66.5      Barometric pressure, recorded      29.16  
 T(db) F: 79.5      Barometric Pressure, corrected      29.03 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	31400	578	229.8	8.75	1725	18.2	0	53300	30.9	32
0.05	30600	576	229.7	9.18	1839	16.6	12	52000	28.3	35
0.10	29800	575	229.1	9.52	1929	15.4	25	50600	26.2	38
0.15	29000	574	229.7	9.89	2020	14.4	37	49300	24.4	41
0.20	28200	573	229.3	10.22	2105	13.4	50	47900	22.8	44
0.25	27300	572	229.2	10.59	2194	12.4	62	46300	21.1	47
0.30	26200	570	230.7	11.01	2297	11.4	75	44600	19.4	52
0.35	25300	569	230.6	11.37	2385	10.6	87	42900	18	56
0.40	23900	567	230.5	11.79	2486	9.6	100	40600	16.3	61
0.45	22100	565	230.1	12.13	2565	8.6	112	37500	14.6	68
0.50	19000	564	230.3	12.25	2594	7.3	125	32300	12.5	80
0.55	13300	565	230.1	12.05	2548	5.2	137	22700	8.9	112



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Project Number: 15467  
 Test Date: August 19, 2015

<b>Fan:</b>	<b>Motor:</b>	<b>Shutter:</b>
Make- <i>Multifan Vostermans</i>	Make- <i>Regal Beloit</i>	Material- <i>plastic</i>
Model- <i>C4E14K4</i>	Model- <i>C218</i>	# Doors- <i>21</i>
Blade dia.- <i>54.4"</i>	Hp- <i>3.0</i>	# Columns- <i>3</i>
Orifice dia.- <i>54.8"</i>	RPM- <i>1725</i>	Door length <i>19.6</i>
	Volts- <i>208-230</i>	Location- <i>intake</i>
	Amps- <i>13.5</i>	
<b>Blade:</b>	Hz- <i>60</i>	<b>Guards:</b>
Number- <i>6</i>	Phase- <i>1</i>	Description- <i>wire</i>
Shape- <i>propeller</i>	S. F.- <i>1.0</i>	Spacing- <i>4.8" concentric</i>
Material- <i>plastic</i>		Location- <i>exhaust</i>
Pitch- <i>-</i>		
Clearance- <i>0.2"</i>	<b>Housing:</b>	<b>Discharge Cone:</b>
	Material- <i>fiberglass</i>	Depth- <i>40.3"</i>
<b>Drive Sheaves:</b>	Intake area- <i>61.3" x 61.3"</i>	Minor dia.- <i>54.7"</i>
Drive dia.- <i>3.95" o.d.</i>	Discharge- <i>54.8" dia.</i>	Major dia.- <i>73.3"</i>
Axle dia.- <i>11.9" o.d.</i>	Depth- <i>29"</i>	

Notes: 0

**Test Conditions:**

T(wb) F: 64.5      Barometric pressure, recorded      29.16  
 T(db) F: 78      Barometric Pressure, corrected      29.03 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	31000	576	232.1	9.06	1802	17.2	0	52700	29.2	34
0.05	30100	574	230.1	9.36	1896	15.9	12	51200	27	37
0.10	29200	573	230.1	9.71	1985	14.7	25	49700	25	40
0.15	28500	572	229.7	10.02	2061	13.8	37	48400	23.5	43
0.20	27500	571	231.0	10.42	2161	12.7	50	46700	21.6	46
0.25	26000	569	231.0	10.90	2277	11.4	62	44300	19.4	51
0.30	24700	567	230.8	11.25	2364	10.5	75	42000	17.8	56
0.35	23100	565	230.6	11.63	2448	9.4	87	39200	16	62
0.40	21000	564	230.0	11.89	2511	8.4	100	35800	14.2	70
0.45	18600	563	230.1	11.88	2519	7.4	112	31500	12.5	80
0.50	14400	563	230.0	11.87	2511	5.7	125	24400	9.7	103
0.55	13200	562	230.1	12.10	2570	5.1	137	22400	8.7	115
0.60	11600	560	230.2	12.33	2625	4.4	149	19800	7.5	133

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<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan Vostermans</i>		Make- <i>Multifan</i>		Material- <i>Aluminum</i>	
Model- <i>C4D14K4</i>		Model- <i>FM0338</i>		# Doors- <i>15 per column</i>	
Blade dia.- <i>54.4"</i>		Hp- <i>2.42 (1.8 kW)</i>		# Columns- <i>2</i>	
Orifice dia.- <i>54.8"</i>		RPM- <i>1745</i>		Door length <i>31"</i>	
		Volts- <i>240 / 420</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>6.8 / 4</i>		<b>Guards:</b>	
Number- <i>6</i>		Hz- <i>60</i>		Description- <i>wire</i>	
Shape- <i>propeller</i>		Phase- <i>3</i>		Spacing- <i>4.8" concentric</i>	
Material- <i>plastic</i>		S. F.- <i>-</i>		Location- <i>exhaust</i>	
Pitch- <i>-</i>		<b>Housing:</b>		<b>Discharge Cone:</b>	
Clearance- <i>0.2"</i>		Material- <i>fiberglass</i>		Depth- <i>40.3"</i>	
<b>Drive Sheaves:</b>		Intake area- <i>61.3" x 61.3"</i>		Minor dia.- <i>54.7"</i>	
Drive dia.- <i>4.05" o.d.</i>		Discharge- <i>54.8" dia.</i>		Major dia.- <i>73.3"</i>	
Axle dia.- <i>11.9" o.d.</i>		Depth- <i>29"</i>			

Notes: 0

Test Conditions:

T(wb) F: 64.5	Barometric pressure, recorded	29.16
T(db) F: 78	Barometric Pressure, corrected	29.03 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	31600	582	230.8	5.71	1670	18.9	0	53600	32.1	31
0.05	30700	580	229.6	5.94	1779	17.3	12	52200	29.4	34
0.10	29900	579	229.5	6.18	1889	15.8	25	50800	26.9	37
0.15	29100	577	229.6	6.39	1983	14.7	37	49500	25	40
0.20	28300	576	229.5	6.62	2080	13.6	50	48000	23.1	43
0.25	27400	574	229.6	6.83	2171	12.6	62	46500	21.4	47
0.30	26500	573	229.9	7.01	2258	11.8	75	45100	20	50
0.35	25400	571	229.7	7.27	2363	10.8	87	43200	18.3	55
0.40	23900	569	229.6	7.56	2482	9.6	100	40700	16.4	61
0.45	22300	568	229.7	7.76	2563	8.7	112	37800	14.8	68
0.50	19200	568	230.0	7.83	2601	7.4	125	32600	12.5	80
0.55	13700	568	230.4	7.73	2555	5.4	137	23200	9.1	110
0.60	12100	567	230.0	7.87	2617	4.6	149	20500	7.8	128

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<b>Fan:</b>		<b>Motor:</b>		<b>Shutter:</b>	
Make- <i>Multifan Vostermans</i>		Make- <i>Multifan</i>		Material- <i>plastic</i>	
Model- <i>C4D14K4</i>		Model- <i>FM0338</i>		# Doors- <i>21</i>	
Blade dia.- <i>54.4"</i>		Hp- <i>2.42 (1.8 kW)</i>		# Columns- <i>3</i>	
Orifice dia.- <i>54.8"</i>		RPM- <i>1745</i>		Door length <i>19.6</i>	
		Volts- <i>240 / 420</i>		Location- <i>intake</i>	
<b>Blade:</b>		Amps- <i>6.8 / 4</i>		<b>Guards:</b>	
Number- <i>6</i>		Hz- <i>60</i>		Description- <i>wire</i>	
Shape- <i>propeller</i>		Phase- <i>3</i>		Spacing- <i>4.8" concentric</i>	
Material- <i>plastic</i>		S. F.- <i>-</i>		Location- <i>exhaust</i>	
Pitch- <i>-</i>		<b>Housing:</b>		<b>Discharge Cone:</b>	
Clearance- <i>0.2"</i>		Material- <i>fiberglass</i>		Depth- <i>40.3"</i>	
<b>Drive Sheaves:</b>		Intake area- <i>61.3" x 61.3"</i>		Minor dia.- <i>54.7"</i>	
Drive dia.- <i>4.05" o.d.</i>		Discharge- <i>54.8" dia.</i>		Major dia.- <i>73.3"</i>	
Axle dia.- <i>11.9" o.d.</i>		Depth- <i>29"</i>			

Notes: 0

Test Conditions:

T(wb) F: 66.5	Barometric pressure, recorded	29.16
T(db) F: 79	Barometric Pressure, corrected	29.03 (In. Hg)

Static Pressure (in.H2O)	Airflow (cfm)	rpm	Volts	Amps	Watts	cfm/Watt	SI Units			
							Static Pressure (Pa)	Airflow (m <sup>3</sup> /hr.)	(m <sup>3</sup> /hr)/W	W/1000m <sup>3</sup> /hr
0.00	31100	582	230.1	5.90	1738	17.9	0	52800	30.4	33
0.05	30400	581	230.0	6.08	1833	16.6	12	51700	28.2	35
0.10	29500	580	229.7	6.32	1934	15.2	25	50100	25.9	39
0.15	28700	578	229.7	6.51	2028	14.1	37	48700	24	42
0.20	27700	578	229.5	6.52	2033	13.6	50	47100	23.2	43
0.25	26700	577	229.6	6.73	2121	12.6	62	45300	21.4	47
0.30	24800	576	229.6	6.96	2219	11.2	75	42100	19	53
0.35	23100	572	229.1	7.56	2476	9.3	87	39300	15.9	63
0.40	21400	571	229.6	7.72	2532	8.4	100	36400	14.4	70
0.45	19100	571	229.8	7.77	2558	7.5	112	32500	12.7	79
0.50	15300	570	230.0	7.77	2553	6.0	125	26100	10.2	98
0.55	12500	568	229.6	8.00	2649	4.7	137	21300	8	125