



Systemair, Inc. certifies that the (Freshman) shown herein is (or are) licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program

Freshman Series

Single Room Air Handler

Test Unit: 1000A VP
Manufacturer: Systemair Inc.
Trade Name: Changeair

Inlet Area: 16.8" × 35.6" (4.1 sq. ft.)
Outlet Area: 12" × 24" (2.0 sq. ft.)
Lab name: Systemair Lab - Lenexa
Unit System: IP

Performance:

Catalogue Number						Airflow (cfm)	ESP (in.wc)	Nominal (RPM)	Max Power (W)
CA	H	1000A	CW	VP	DD	1250	0.00	696	250
	N		CC	VPS		1154	0.25	819	250
			NA						

*Test Method per ANSI / AMCA Standard 210-16, Figure 12 Setup. Performance Certified is for installation type B - Free Inlet, Ducted Outlet. Speed (rpm) shown is nominal. Performance is based on actual speed of test. Performance Ratings do not include the effect of appurtenances (accessories).

Sound Data: (Individual sound Power by Octave Band)

ESP	63	125	250	500	1000	2000	4000	8000	LwA
0	59	60	52	44	39	33	26	24	48
0.25	62	62	52	43	39	34	27	24	48

Test Method per ANSI / AMCA Standard 300-14, Figure 2 Setup. Values shown are for inlet LWiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

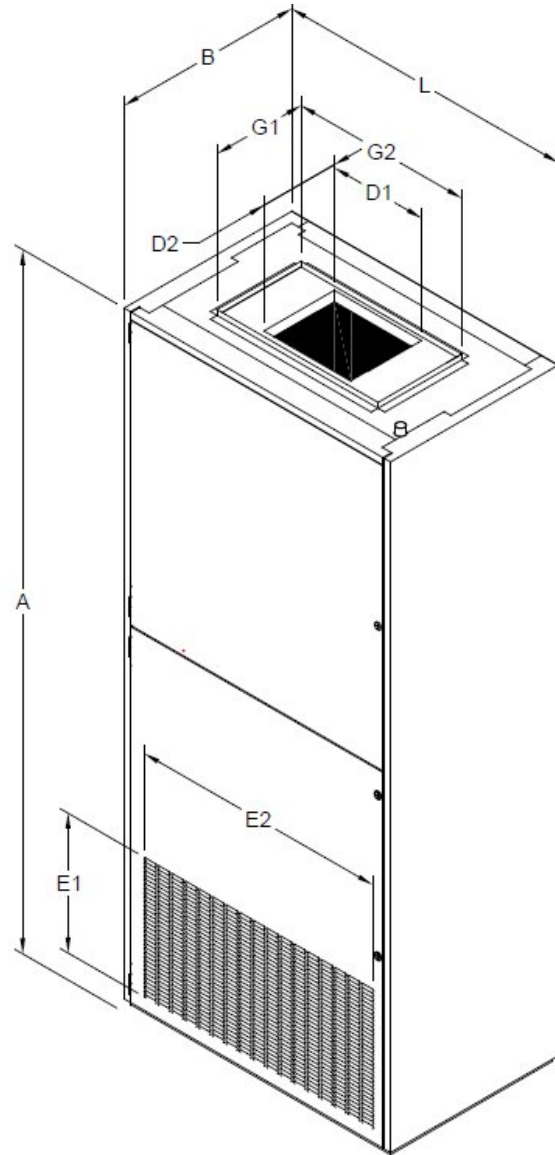
ESP (in.wc)	Speed (rpm)	Airflow (CFM)	Power (W)	63	125	250	500	1000	2000	4000	8000	LwA
0	513	871	91	54	52	43	37	29	23	20	24	40
0	696	1250	213	59	60	52	44	39	33	26	24	48
0	842	1555	383	63	63	57	48	45	39	33	26	52
0	958	1817	588	66	65	59	54	49	45	38	29	56
0.25	674	728	114	56	55	45	41	31	27	22	24	43
0.25	819	1154	250	62	62	52	43	39	34	27	24	48
0.25	939	1484	426	65	65	57	48	45	39	33	26	53
0.25	1043	1748	636	66	66	60	53	49	44	38	29	56

Test Method per ANSI / AMCA Standard 300-14, Figure 2 Setup. Values shown are for inlet LWiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Dimensions :
1000A VP

A	91.00
B	25.00
D1	13.00
D2	10.50
E1	16.75
E2	35.63
G1	12.00
G2	24.00
L	39.75

*Dimensions are in inches



Test Unit: 1000A VP IQ
Manufacturer: Systemair Inc.
Trade Name: Changeair

Inlet Area: 18.69" × 35.6" (4.75 sq. ft.)
Outlet Area: 12" × 24" (2.0 sq. ft.)
Lab name: Systemair Lab - Lenexa
Unit System: IP

Performance:

Catalogue Number							Airflow (cfm)	ESP (in.wc)	Nominal (RPM)	Max Power (W)
CA	H	1000A	CW	VP	DD	IQ	1398	0.00	774	309
	N		CC	VPS			1293	0.25	869	309
			NA							

*Test Method per ANSI / AMCA Standard 210-16, Figure 12 Setup. Performance Certified is for installation type B - Free Inlet, Ducted Outlet. Speed (rpm) shown is nominal. Performance is based on actual speed of test. Performance Ratings do not include the effect of appurtenances (accessories).

Sound Data: (Individual sound Power by Octave Band)

ESP	63	125	250	500	1000	2000	4000	8000	LwA
0	64	64	53	50	45	44	26	25	53
0.25	65	65	53	47	44	40	26	25	52

Test Method per ANSI / AMCA Standard 300-14, Figure 2 Setup. Values shown are for inlet LWiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

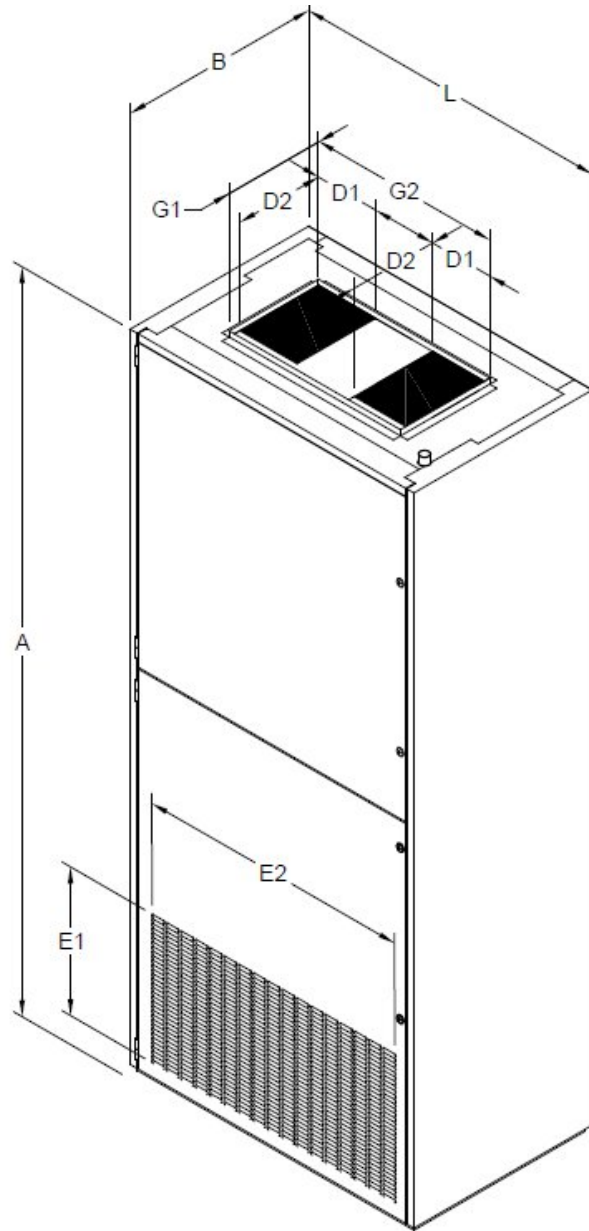
ESP (in.wc)	Speed (rpm)	Airflow (CFM)	Power (W)	63	125	250	500	1000	2000	4000	8000	LwA
0	596	940	107	56	56	45	40	34	22	20	24	43
0	774	1398	276	64	64	53	50	45	44	26	25	53
0	943	1770	519	68	67	56	58	49	52	37	27	58
0	1079	2076	820	71	70	61	61	52	55	45	31	62
0.25	681	688	125	60	61	44	38	32	26	22	24	45
0.25	869	1293	309	65	65	53	47	44	40	26	25	52
0.25	1020	1685	560	68	68	56	58	49	51	35	26	58
0.25	1144	1988	861	71	71	60	60	52	55	43	30	61

Test Method per ANSI / AMCA Standard 300-14, Figure 2 Setup. Values shown are for inlet LWiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

**Dimensions:
1000A VP IQ**

A	91.00
B	25.00
D1	8.00
D2	11.00
E1	18.63
E2	35.63
G1	12.00
G2	24.00
L	39.75

*Dimensions are in inches



Test Unit: 1000A FB
Manufacturer: Systemair Inc.
Trade Name: Changeair

Inlet Area: 16.8" × 35.6" (4.1 sq. ft.)
Outlet Area: 12" × 24" (2.0 sq. ft.)
Lab name: Systemair Lab - Lenexa
Unit System: IP

Performance:

Catalogue Number						Airflow (cfm)	ESP (in.wc)	Nominal (RPM)	Max Power (W)
CA	H	1000A	CW	FB	DD	1220	0.00	892	293
	N		CC	FBS		1123	0.25	986	293
			NA						

*Test Method per ANSI / AMCA Standard 210-16, Figure 12 Setup. Performance Certified is for installation type B - Free Inlet, Ducted Outlet. Speed (rpm) shown is nominal. Performance is based on actual speed of test. Performance Ratings do not include the effect of appurtenances (accessories).

Sound Data: (Individual sound Power by Octave Band)

ESP	63	125	250	500	1000	2000	4000	8000	LwA
0	66	65	53	47	41	36	28	25	51
0.25	67	67	53	46	40	35	28	25	52

Test Method per ANSI / AMCA Standard 300-14, Figure 2 Setup. Values shown are for inlet LWiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

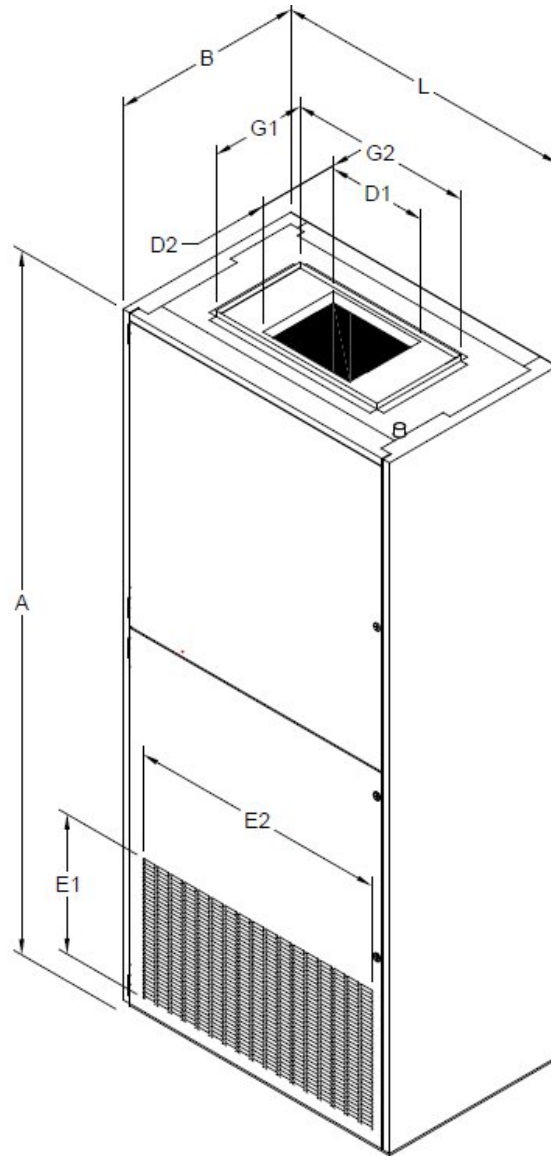
ESP (in.wc)	Speed (rpm)	Airflow (CFM)	Power (W)	63	125	250	500	1000	2000	4000	8000	LwA
0	639	825	13	59	58	45	39	30	25	20	24	43
0	892	1220	263	66	65	53	47	41	36	28	25	51
0	1081	1534	482	70	70	58	53	47	43	36	29	56
0	1228	1777	729	73	72	61	56	51	48	41	34	59
0.25	752	674	119	62	61	45	37	32	27	22	24	45
0.25	986	1123	293	67	67	53	46	40	35	28	25	52
0.25	1154	1449	511	70	70	58	52	47	44	41	35	56
0.25	1278	1671	728	73	72	61	55	50	47	40	33	59

Test Method per ANSI / AMCA Standard 300-14, Figure 2 Setup. Values shown are for inlet LWiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

**Dimensions:
1000A FB**

A	91.00
B	25.00
D1	13.00
D2	10.50
E1	16.75
E2	35.63
G1	12.00
G2	24.00
L	39.75

*Dimensions are in inches



Test Unit: 1000A FB IQ
Manufacturer: Systemair Inc.
Trade Name: Changeair

Inlet Area: 18.69" × 35.6" (4.75 sq. ft.)
Outlet Area: 12" × 24" (2.0 sq. ft.)
Lab name: Systemair Lab - Lenexa
Unit System: IP

Performance:

Catalogue Number							Airflow (cfm)	ESP (in.wc)	Nominal (RPM)	Max Power (W)
CA	H	1000A	CW	FB	DD	IQ	1486	0.00	936	360
	N		CC	FBS			1378	0.25	1004	360
			NA							

*Test Method per ANSI / AMCA Standard 210-16, Figure 12 Setup. Performance Certified is for installation type B - Free Inlet, Ducted Outlet. Speed (rpm) shown is nominal. Performance is based on actual speed of test. Performance Ratings do not include the effect of appurtenances (accessories).

Sound Data: (Individual sound Power by Octave Band)

ESP	63	125	250	500	1000	2000	4000	8000	LwA
0	64	63	54	47	40	36	27	24	50
0.25	65	63	54	45	39	35	27	24	50

Test Method per ANSI / AMCA Standard 300-14, Figure 2 Setup. Values shown are for inlet LWiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

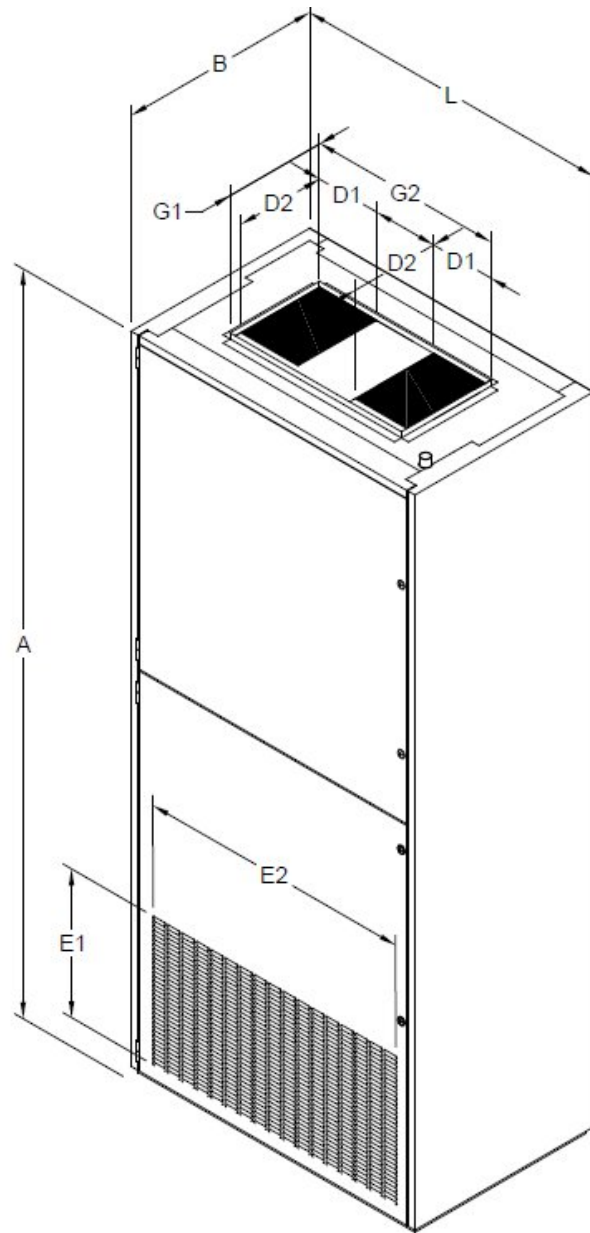
ESP (in.wc)	Speed (rpm)	Airflow (CFM)	Power (W)	63	125	250	500	1000	2000	4000	8000	LwA
0	660	1002	127	57	54	45	37	30	22	20	24	41
0	936	1486	336	64	63	54	47	40	36	27	24	50
0	1141	1862	628	69	68	59	53	45	43	34	27	56
0	1304	2143	947	71	71	63	56	49	47	39	31	59
0.25	759	818	144	58	55	45	37	32	26	22	24	42
0.25	1004	1378	360	65	63	54	45	39	35	27	24	50
0.25	1196	1772	653	69	69	59	53	45	42	34	26	56
0.25	1317	2002	899	71	71	62	55	48	46	38	29	58

Test Method per ANSI / AMCA Standard 300-14, Figure 2 Setup. Values shown are for inlet LWiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

**Dimensions:
1000A FB IQ**

A	91.00
B	25.00
D1	8.00
D2	11.00
E1	18.63
E2	35.63
G1	12.00
G2	24.00
L	39.75

*Dimensions are in inches



Test Unit: 1600A VP
Manufacturer: Systemair Inc.
Trade Name: Changeair

Inlet Area: 21.1" x 42.6" (6.2sq. ft.)
Outlet Area: 12" x 24" (2.0 sq. ft.)
Lab name: Systemair Lab - Lenexa
Unit System: IP

Performance:

Catalogue Number						Airflow (cfm)	ESP (in.wc)	Nominal (RPM)	Max Power (W)
CA	H	1600A	CW	VP	DD	1540	0.00	789	400
	N		CC	VPS		1433	0.25	893	400
			NA						

*Test Method per ANSI / AMCA Standard 210-16, Figure 12 Setup. Performance Certified is for installation type B - Free Inlet, Ducted Outlet. Speed (rpm) shown is nominal. Performance is based on actual speed of test. Performance Ratings do not include the effect of appurtenances (accessories).

Sound Data: (Individual sound Power by Octave Band)

ESP	63	125	250	500	1000	2000	4000	8000	LwA
0	65	64	57	50	44	38	31	25	53
0.25	66	66	60	48	44	38	31	25	54

Test Method per ANSI / AMCA Standard 300-14, Figure 2 Setup. Values shown are for inlet LWiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

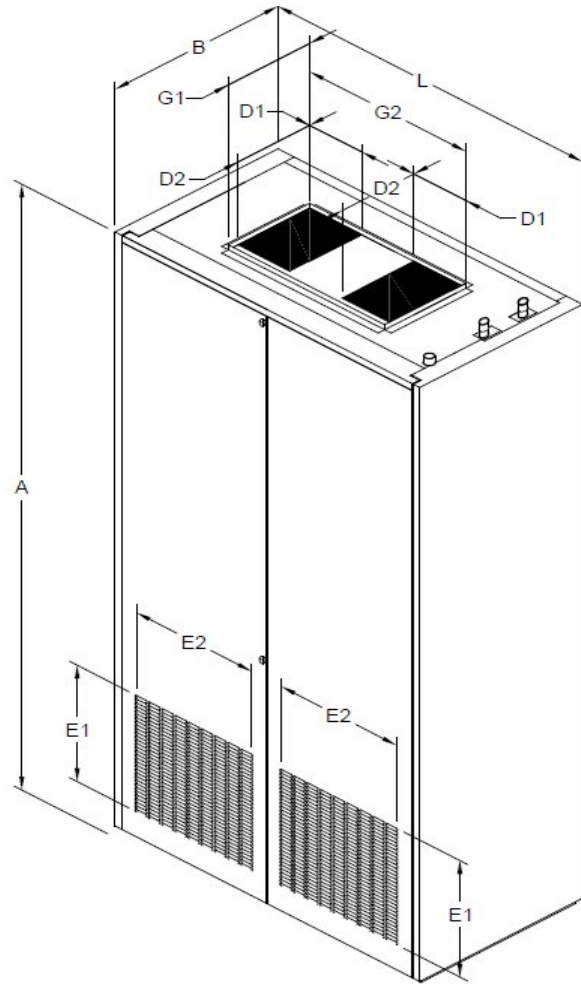
ESP (in.wc)	Speed (rpm)	Airflow (CFM)	Power (W)	63	125	250	500	1000	2000	4000	8000	LwA
0	475	846	82	54	54	44	36	28	22	19	23	40
0	651	1228	197	60	60	52	44	38	32	25	23	48
0	789	1540	355	65	64	57	50	44	38	31	25	53
0	907	1800	552	68	68	61	55	49	45	36	29	57
0.25	666	644	107	58	57	47	36	30	26	21	23	43
0.25	789	1095	235	63	63	54	43	38	33	25	24	49
0.25	893	1433	400	66	66	60	48	44	38	31	25	54
0.25	996	1708	605	68	68	61	53	48	43	35	27	57

Test Method per ANSI / AMCA Standard 300-14, Figure 2 Setup. Values shown are for inlet LWiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

**Dimensions:
1600A VP**

A	91.00
B	25.00
D1	11.50
D2	8.75
E1	18.00
E2	20.25
G1	12.00
G2	24.00
L	46.75

*Dimensions are in inches



Test Unit: 1600A VP IQ
Manufacturer: Systemair Inc.
Trade Name: Changeair

Inlet Area: 21.1" x 42.6" (6.2sq. ft.)
Outlet Area: 12" x 24" (2.0 sq. ft.)
Lab name: Systemair Lab - Lenexa
Unit System: IP

Performance:

Catalogue Number							Airflow (cfm)	ESP (in.wc)	Nominal (RPM)	Max Power (W)
CA	H	1600A	CW	VP	DD	IQ	1544	0.00	650	273
	N		CC	VPS			1411	0.25	756	273
			NA							

*Test Method per ANSI / AMCA Standard 210-16, Figure 12 Setup. Performance Certified is for installation type B - Free Inlet, Ducted Outlet. Speed (rpm) shown is nominal. Performance is based on actual speed of test. Performance Ratings do not include the effect of appurtenances (accessories).

Sound Data: (Individual sound Power by Octave Band)

ESP	63	125	250	500	1000	2000	4000	8000	LwA
0	60	60	50	45	41	32	24	24	48
0.25	61	62	50	45	40	32	25	24	48

Test Method per ANSI / AMCA Standard 300-14, Figure 2 Setup. Values shown are for inlet LWiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

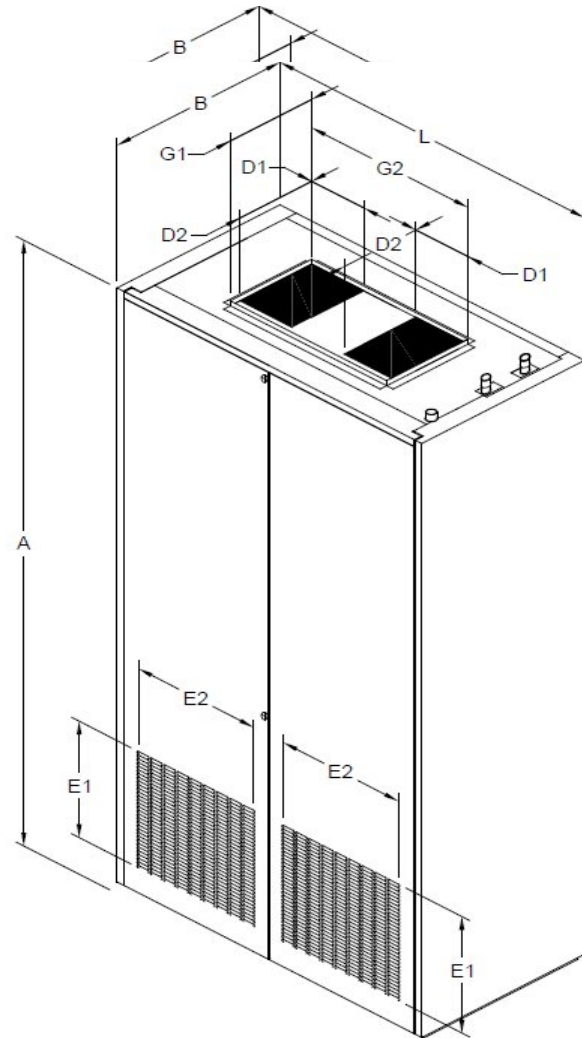
ESP (in.wc)	Speed (rpm)	Airflow (CFM)	Power (W)	63	125	250	500	1000	2000	4000	8000	LwA
0	476	1054	95	53	54	43	37	29	20	20	24	40
0	650	1544	237	60	60	50	45	41	32	24	24	48
0	786	1939	440	65	64	55	51	47	44	31	25	54
0	903	2255	698	68	67	59	56	51	51	37	28	58
0.25	638	783	120	60	60	44	39	33	26	22	24	44
0.25	756	1411	273	61	62	50	45	40	32	25	24	48
0.25	873	1837	486	65	65	55	50	46	41	31	25	53
0.25	980	2169	755	68	67	59	55	50	50	36	27	58

Test Method per ANSI / AMCA Standard 300-14, Figure 2 Setup. Values shown are for inlet LWiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

**Dimensions:
1600A VP IQ**

A	91.00
B	25.00
D1	11.50
D2	8.75
E1	21.13
E2	20.25
G1	12.00
G2	24.00
L	46.75

*Dimensions are in inches



Test Unit: 1600A FB
Manufacturer: Systemair Inc.
Trade Name: Changeair

Inlet Area: 21.1" x 42.6" (6.2sq. ft.)
Outlet Area: 12" x 24" (2.0 sq. ft.)
Lab name: Systemair Lab - Lenexa
Unit System: IP

Performance:

Catalogue Number						Airflow (cfm)	ESP (in.wc)	Nominal (RPM)	Max Power (W)
CA	H	1600A	CW	FB	DD	1608	0.00	982	474
	N		CC	FBS		1521	0.25	1061	474
			NA						

*Test Method per ANSI / AMCA Standard 210-16, Figure 12 Setup. Performance Certified is for installation type B - Free Inlet, Ducted Outlet. Speed (rpm) shown is nominal. Performance is based on actual speed of test. Performance Ratings do not include the effect of appurtenances (accessories).

Sound Data: (Individual sound Power by Octave Band)

ESP	63	125	250	500	1000	2000	4000	8000	LwA
0	69	66	59	51	48	47	38	30	56
0.25	68	66	59	50	47	46	37	28	55

Test Method per ANSI / AMCA Standard 300-14, Figure 2 Setup. Values shown are for inlet LWiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

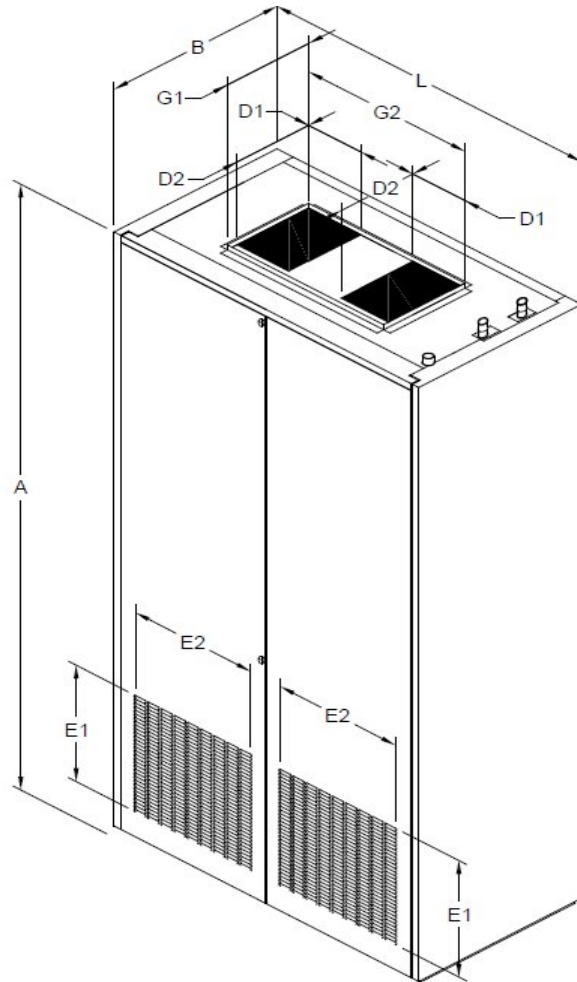
ESP (in.wc)	Speed (rpm)	Airflow (CFM)	Power (W)	63	125	250	500	1000	2000	4000	8000	LwA
0	574	881	96	57	54	45	37	30	28	20	24	42
0	801	1284	240	64	62	53	47	43	39	30	24	51
0	982	1608	440	69	66	59	51	48	47	38	30	56
0	1126	1886	675	72	69	62	57	51	49	42	36	59
0.25	723	706	117	61	56	44	37	32	26	21	24	42
0.25	904	1178	269	65	62	53	46	40	36	28	24	50
0.25	1061	1521	474	68	66	59	50	47	46	37	28	55
0.25	1192	1787	709	72	68	62	56	50	48	41	34	59

Test Method per ANSI / AMCA Standard 300-14, Figure 2 Setup. Values shown are for inlet LWiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

**Dimensions:
1600A FB**

A	91.00
B	25.00
D1	11.50
D2	8.75
E1	18.00
E2	20.25
G1	12.00
G2	24.00
L	46.75

*Dimensions are in inches



Test Unit: 1600A FB IQ
Manufacturer: Systemair Inc.
Trade Name: Changeair

Inlet Area: 21.1" x 42.6" (6.2sq. ft.)
Outlet Area: 12" x 24" (2.0 sq. ft.)
Lab name: AMCA Lab, Illinois
Unit System: IP

Performance:

Catalogue Number							Airflow (cfm)	ESP (in.wc)	Nominal (RPM)	Max Power (W)
CA	H	1600A	CW	FB	DD	IQ	1535	0.00	1196	445
	N		CC	FBS			1404	0.25	1196	445
			NA							

*Test Method per ANSI / AMCA Standard 210-16, Figure 12 Setup. Performance Certified is for installation type B - Free Inlet, Ducted Outlet. Speed (rpm) shown is nominal. Performance is based on actual speed of test. Performance Ratings do not include the effect of appurtenances (accessories).

Sound Data: (Individual sound Power by Octave Band)

ESP	63	125	250	500	1000	2000	4000	8000	LwA
0	72	62	54	46	40	33	28	33	52
0.25	74	63	54	45	40	34	28	33	52

Test Method per ANSI / AMCA Standard 300-14, Figure 2 Setup. Values shown are for inlet LWiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

ESP (in.wc)	Speed (rpm)	Airflow (CFM)	Power (W)	125	250	500	1000	2000	4000	8000	LwA
0	592	1040	111	53	44	38	30	24	25	33	43
0	842	1535	295	62	54	46	40	33	28	33	52
0	1033	1949	558	67	63	53	47	42	34	34	58
0	1193	2272	865	70	64	58	50	48	38	35	61
0.25	650	920	118	63	54	45	40	34	28	33	52
0.25	914	1404	314	68	61	51	46	41	33	33	57
0.25	1103	1820	587	71	63	58	50	47	38	34	61
0.25	1255	2149	904	72	65	59	51	49	40	35	63

Test Method per ANSI / AMCA Standard 300-14, Figure 2 Setup. Values shown are for inlet LWiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

**Dimensions:
1600A FB IQ**

A	91.00
B	25.00
D1	11.50
D2	8.75
E1	21.13
E2	20.25
G1	12.00
G2	24.00
L	46.75d

*Dimensions are in inches

