

Laboratory Exhaust Systems

SKYPLUME G1-EL



- **231%-332% Induction Rates**
- **Fourteen sizes from 18 to 66**
- **Volumes up to 80,000 CFM per fan**
- **Static pressures up to 12" W.G.**
- **Class I • Class II • Class III**



Plasticair

SKYPLUME G1-EL

Centrifugal Configuration

AMCA 260 Tested

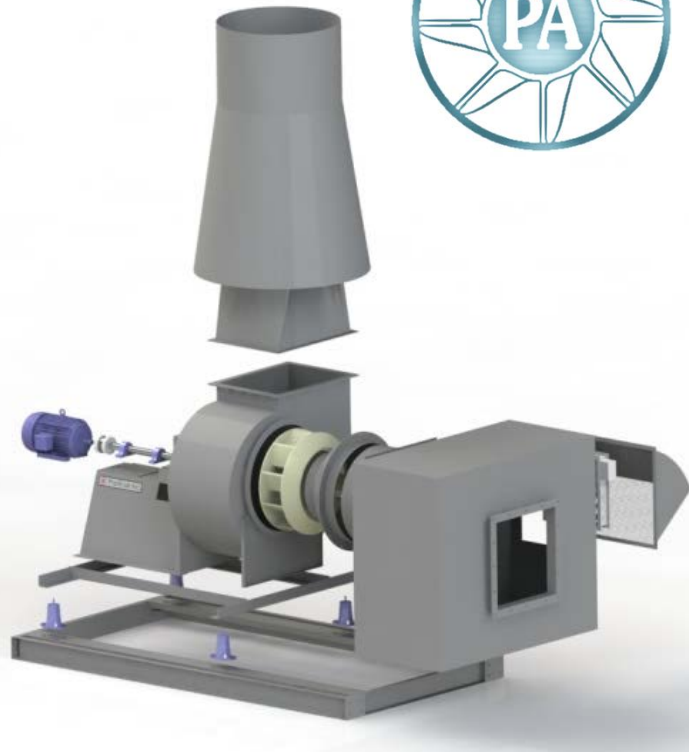
SKYPLUME G1-EL (Extended Lobe) Fans incorporate a single-width centrifugal unit, conclusive with Medium and High velocity nozzle design and integral windband to maximize dilution ratios. Plasticair has achieved certified induction ratios between 231%-332%. This patented and improved design maximizes plume height and dilution versus horsepower.

Standard versions of the SKYPLUME G1-EL fans are offered by Plasticair which are categorized as SKYPLUME G1-ELMV and SKYPLUME G1-ELHV, and meet ANSI Z9.5 requirements.

Both belt and direct drive are available in five (5) arrangements. Our construction is UV stable FRP, which provides maximum corrosion resistance and strength as every units standard design meets 125 MPH (201 kmh) wind load. 150 MPH (241 kmh) construction is available upon request.

Standard Features

- Impeller – B.I. – FRP construction – Lifetime Rust Proof
- Housing – UV stable FRP construction – Lifetime Rust Proof
- Induction Stack – UV stable FRP construction – Lifetime Rust Proof
- Fan Base – Steel FRP coated – 4 mm (0.16") thickness – Lifetime Rust Proof
- System designed to withstand wind load of 200km (125 MPH)
- System meet requirement of ANSI Z9.5
- Fasteners are stainless steel
- Shaft – 1045 carbon – shaft sleeve in airstream
- Shaft seal – Teflon
- Lifting lugs
- Arrangement 9 – V-belt drive sets – 1.5 S.F.
- Arrangement 8 – Drive coupling
- Arrangement 4 – Direct couple



Exploded view

Plasticair Inc. certifies that the Skyplume-G1-EL laboratory exhaust models shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to Induced Flow Fan Air and Sound Performance (AMCA Standard 260).



PATENT NUMBERS

Canada: 2365932 & 2456249

U.S.: 6676503 & 7241214

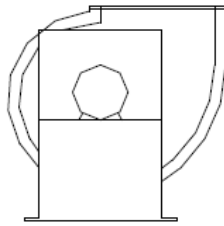
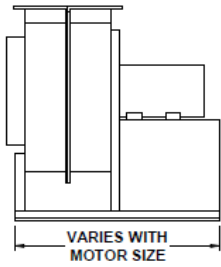


Wheel Construction

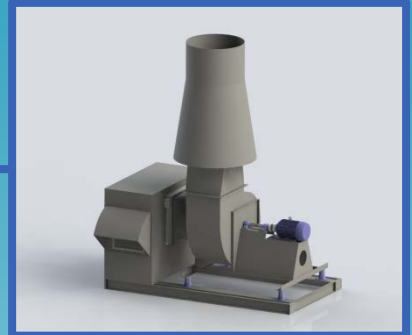
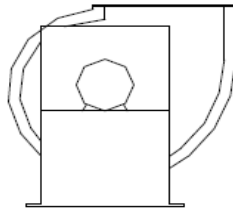
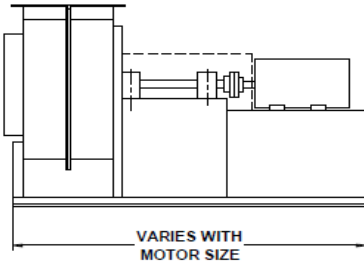
SKYPLUME G1-EL backward inclined wheels are in FRP corrosion resistant construction. The Wheel is 0-25 flame spread as per ASTM-E-84. An FRP shaft sleeve protects the shaft from the contaminated airflow. The impellers are statically and dynamically balanced to grade G2.5 and as per AMCA 204 for an effortless operation prior to being assembled in the fan, followed by a quality check and further final balance of the entire rotating assembly if required.

Alternate Drive Arrangements

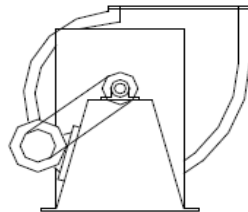
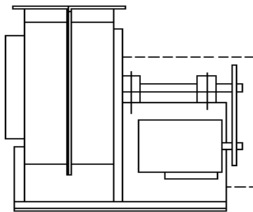
ARRANGEMENT 4



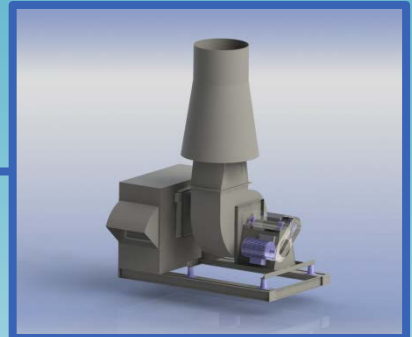
ARRANGEMENT 8



ARRANGEMENT 9



MOTOR MAY BE LEFT OR
RIGHT HAND MOUNTED



Optional Features:

Plenums are available in Rust-proof Construction – FRP, UV stable.

- Dampers: constructed in FRP, 316 ss, 304 ss, Aluminum Epoxy Coated, Galvanized
- Actuators
- Other materials of construction available: 316 ss, 304 ss, Galvanized, Mild Steel Epoxy Coated
- Single wall construction
- Double wall construction

Spark Resistant Construction.

- Outdoor NEMA 3R, 7, 9 disconnects.
- Class 1 Division 1 Motors
- Fans are graphite lined with grounding kit – spark proof.

Factory Assembled Systems

- Fans/plenums mounted on common base platform for single crane lift.
- Platforms are rust proof FRP coated

Silencer Packages

- Stainless steel silencers built into SKYPLUME G1-EL Stacks
- Stainless steel Silencers built onto bypass dampers on intake plenum.
- Self-supporting designs available up to 200 km (125 MPH) wind load.

Roof Curbs

- Heavy duty galvanized roof curbs – up to 7 gauge construction.

Vibration Isolation packages

- 2" spring – housed and restrained
- 1" spring – housed and restrained
- Rubber mount neoprene – restrained

AMCA Arrangement #10 is available upon request.

Stainless steel shafts

Available Motors: VFD Ready, Premium Efficiency, Mill and Chemical Duty, Explosion Proof.

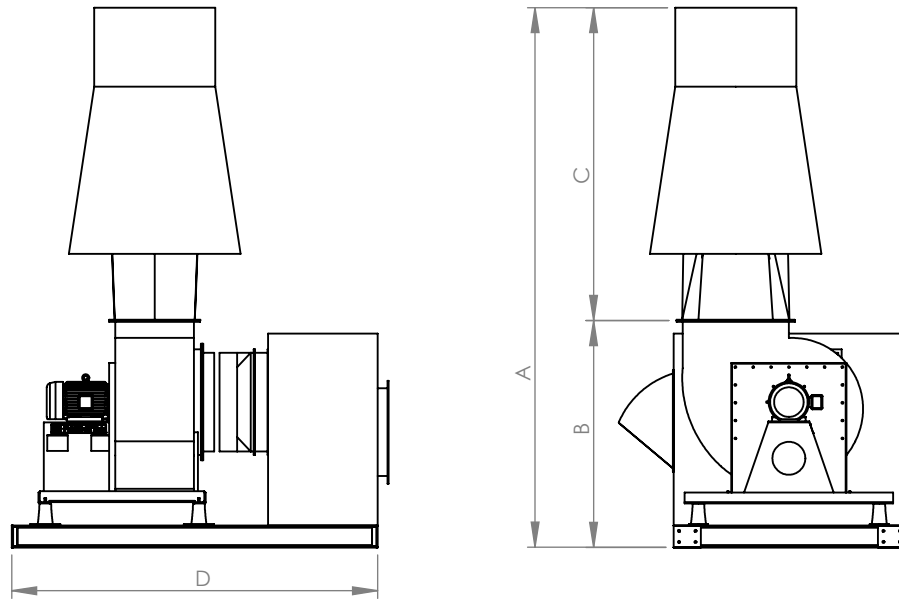
Flexible inlet connections

Nexus Lining for use with Hydrofluoric Acid

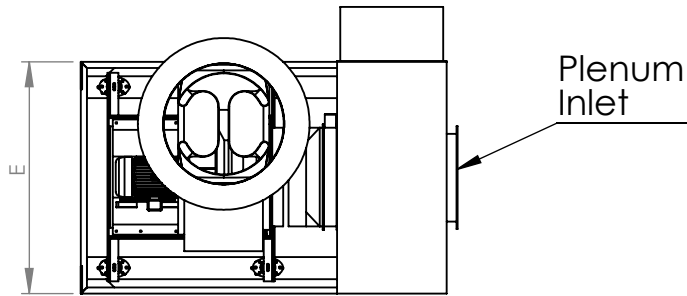
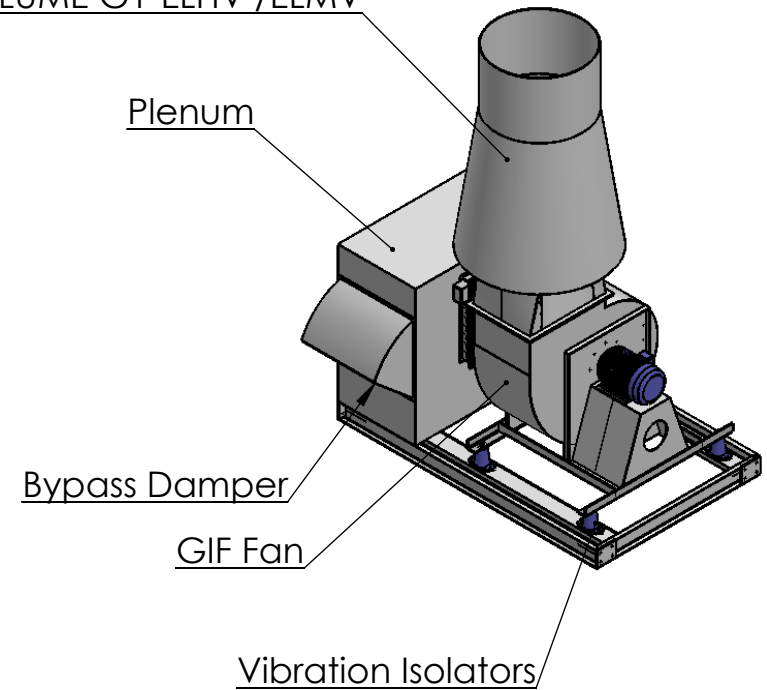
Gravity type back draft dampers

Weather cover – OSHA standards

SKYPLUME SYSTEM Arr#4



SKYPLUME G1-ELHV /ELMV



Plenum inlet location optional. Bottom inlet available upon request.

Note: Dimensions are not used for construction, certified drawings available upon request

PROPRIETARY AND CONFIDENTIAL

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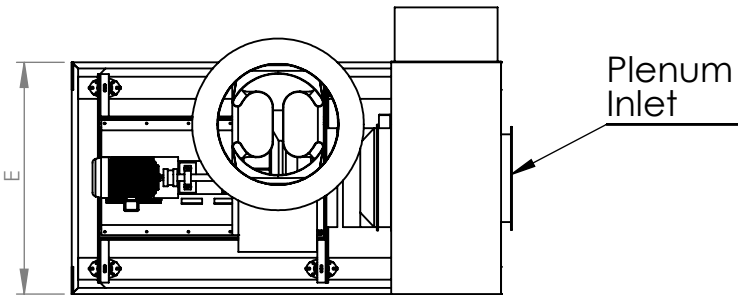
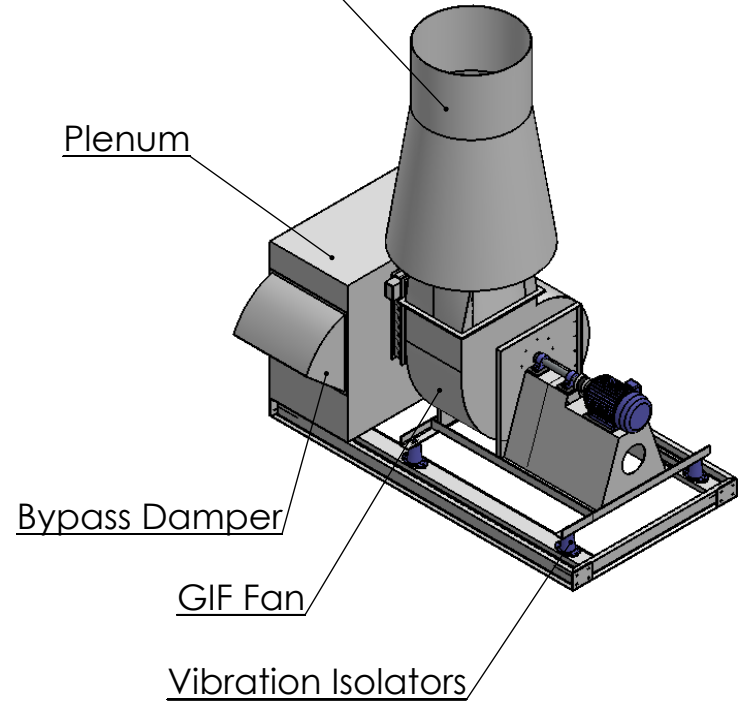
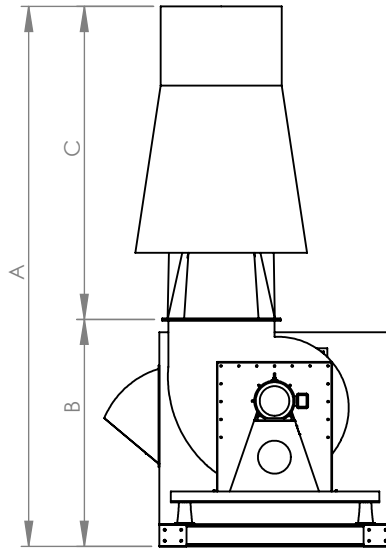
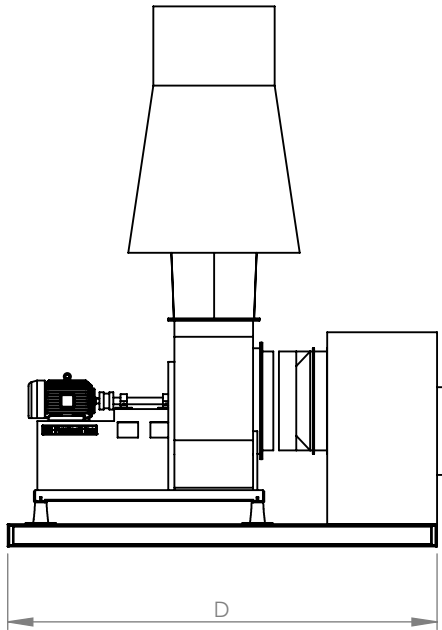


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Size	A	B	C	D	E
SKYPLUME G1-ELHV-18 /ELMV-18	106.625	49.125	57.50	88.88	56.75
SKYPLUME G1-ELHV-20 /ELMV-20	116.15	52.75	63.40	90.625	56.75
SKYPLUME G1-ELHV-22 /ELMV-22	126.75	56.375	70.375	92.375	56.75
SKYPLUME G1-ELHV-24 /ELMV-24	137.50	60.00	77.50	94.00	56.88
SKYPLUME G1-ELHV-27 /ELMV-27	149.69	64.44	85.25	103.50	66.50
SKYPLUME G1-ELHV-30 /ELMV-30	159.71	64.81	94.90	111.50	72.00
SKYPLUME G1-ELHV-33 /ELMV-33	173.75	69.75	104.00	121.26	77.56
SKYPLUME G1-ELHV-36 /ELMV-36	190.25	75.00	115.25	126.76	83.88
SKYPLUME G1-ELHV-40 /ELMV-40	208.75	81.50	127.25	142.00	90.62
SKYPLUME G1-ELHV-44 /ELMV-44	228.38	87.88	140.50	145.76	98.31
SKYPLUME G1-ELHV-49 /ELMV-49	251.625	95.50	156.125	153.26	107.07
SKYPLUME G1-ELHV-54 /ELMV-54	275.56	104.56	171.00	175.00	116.50
SKYPLUME G1-ELHV-60 /ELMV-60	303.69	114.19	189.50	183.5	127.00
SKYPLUME G1-ELHV-66 /ELMV-66	332.44	123.94	208.50	202.5	138.07

SKYPLUME SYSTEM Arr#8

SKYPLUME G1-ELHV / ELMV



Plenum inlet location optional. Bottom inlet available upon request.

Note: Dimensions are not used for construction, certified drawings available upon request

Size	A	B	C	D	E
SKYPLUME G1-ELHV-18 /ELMV-18	106.67	49.17	57.50	124.88	56.75
SKYPLUME G1-ELHV-20 /ELMV-20	116.18	52.78	63.40	130.47	56.75
SKYPLUME G1-ELHV-22 /ELMV-22	126.75	56.39	70.375	136.17	56.75
SKYPLUME G1-ELHV-24 /ELMV-24	137.50	60.00	77.50	142.00	56.88
SKYPLUME G1-ELHV-27 /ELMV-27	149.69	64.44	85.25	151.50	66.50
SKYPLUME G1-ELHV-30 /ELMV-30	159.71	64.81	94.90	171.50	72.00
SKYPLUME G1-ELHV-33 /ELMV-33	173.75	69.75	104.00	181.26	77.56
SKYPLUME G1-ELHV-36 /ELMV-36	190.25	75.00	115.25	186.76	83.88
SKYPLUME G1-ELHV-40 /ELMV-40	208.75	81.50	127.25	203.76	90.62
SKYPLUME G1-ELHV-44 /ELMV-44	228.38	87.88	140.50	213.76	98.31
SKYPLUME G1-ELHV-49 /ELMV-49	251.625	95.50	156.125	221.26	107.07
SKYPLUME G1-ELHV-54 /ELMV-54	275.56	104.56	171.00	251.00	116.50
SKYPLUME G1-ELHV-60 /ELMV-60	303.69	114.19	189.50	259.50	127.00
SKYPLUME G1-ELHV-66 /ELMV-66	332.44	123.94	208.50	278.50	138.07

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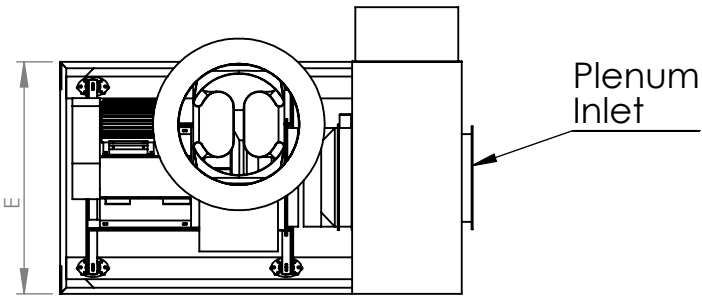
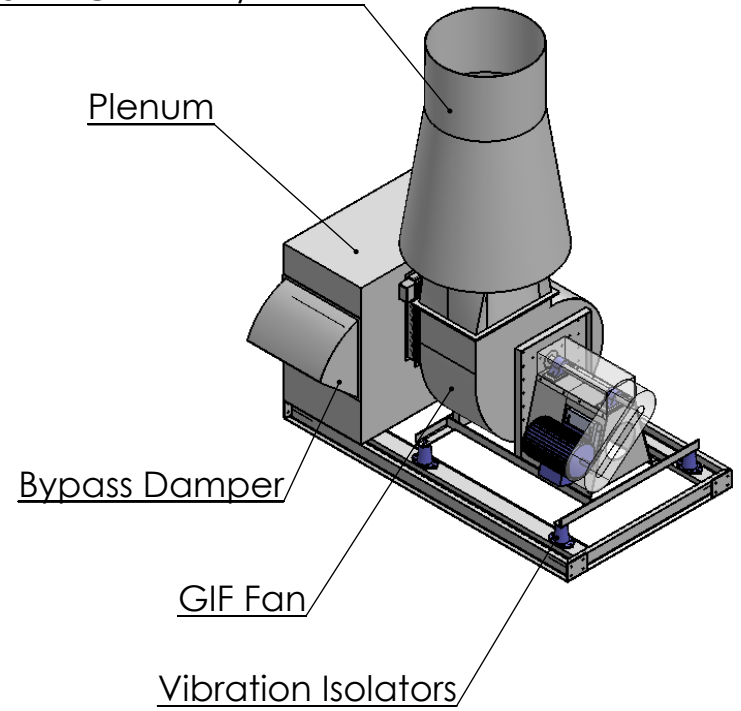
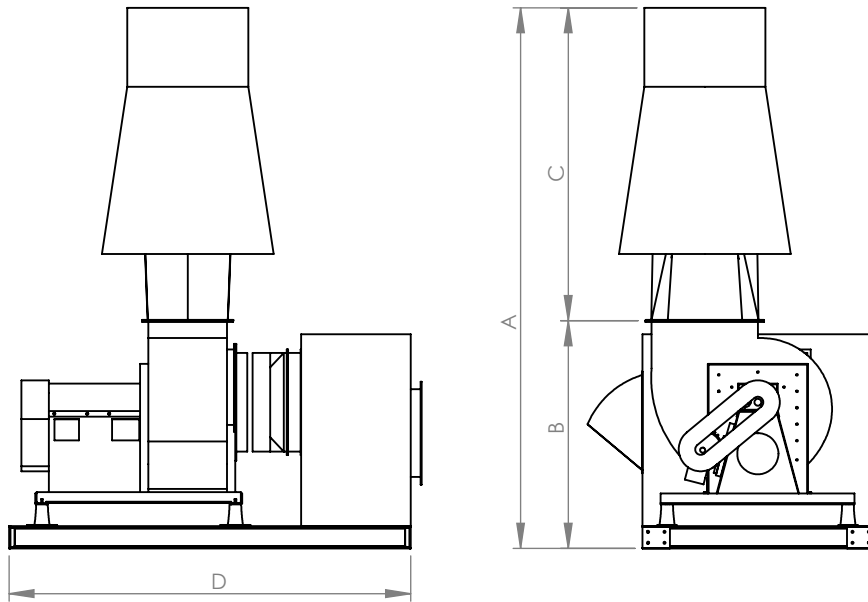
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SKYPLUME SYSTEM Arr# 9

SKYPLUME G1-ELHV / ELMV



Plenum inlet location optional. Bottom inlet available upon request.

Note: Dimensions are not used for construction, certified drawings available upon request

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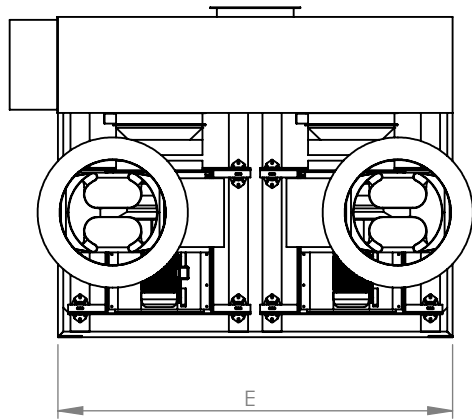
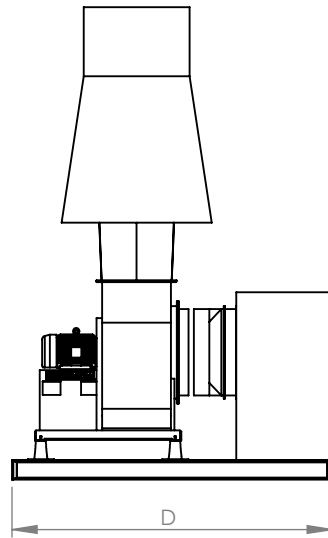
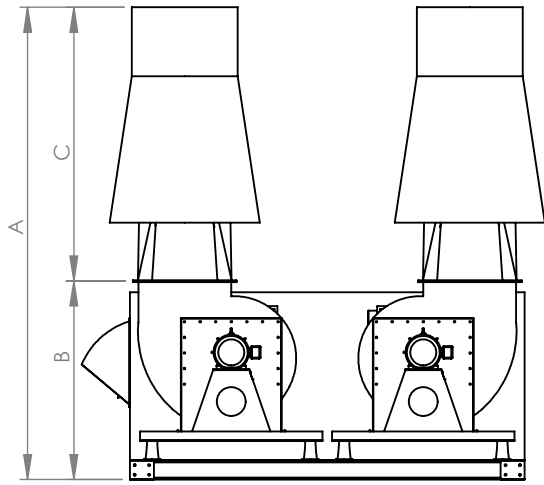
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Size	A	B	C	D	E
SKYPLUME G1-ELHV-18 /ELMV-18	106.67	49.17	57.50	88.88	56.75
SKYPLUME G1-ELHV-20 /ELMV-20	116.92	52.78	63.40	91.00	56.75
SKYPLUME G1-ELHV-22 /ELMV-22	126.765	56.39	70.375	93.12	56.75
SKYPLUME G1-ELHV-24 /ELMV-24	137.50	60.00	77.50	94.00	56.88
SKYPLUME G1-ELHV-27 /ELMV-27	149.69	64.44	85.25	103.5	66.50
SKYPLUME G1-ELHV-30 /ELMV-30	159.71	64.81	94.9	111.50	72.00
SKYPLUME G1-ELHV-33 /ELMV-33	173.75	69.75	104	121.26	77.56
SKYPLUME G1-ELHV-36 /ELMV-36	190.25	75.00	115.25	126.76	83.66
SKYPLUME G1-ELHV-40 /ELMV-40	208.75	81.50	127.25	135.76	90.62
SKYPLUME G1-ELHV-44 /ELMV-44	228.38	87.88	140.5	145.76	98.31
SKYPLUME G1-ELHV-49 /ELMV-49	251.625	95.50	156.125	153.50	107.07
SKYPLUME G1-ELHV-54 /ELMV-54	275.56	104.56	171	175.00	116.50
SKYPLUME G1-ELHV-60 /ELMV-60	303.69	114.19	189.5	183.50	127.00
SKYPLUME G1-ELHV-66 /ELMV-66	332.44	123.94	208.5	202.50	138.07

2 FANS INLINE SYSTEM Arr# 4



SKYPLUME G1-ELHV / ELMV

Plenum

Plenum Inlet

Bypass Damper

GIF Fan

Vibration Isolators

Plenum inlet location optional. Bottom inlet available upon request.

Note: Dimensions are not used for construction, certified drawings available upon request

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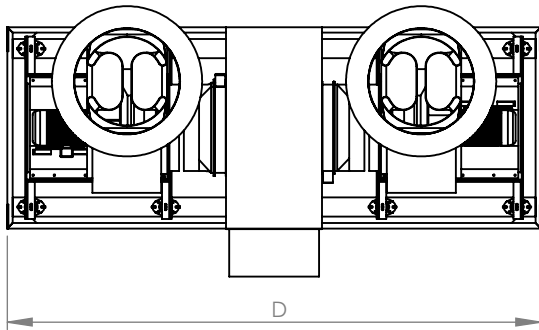
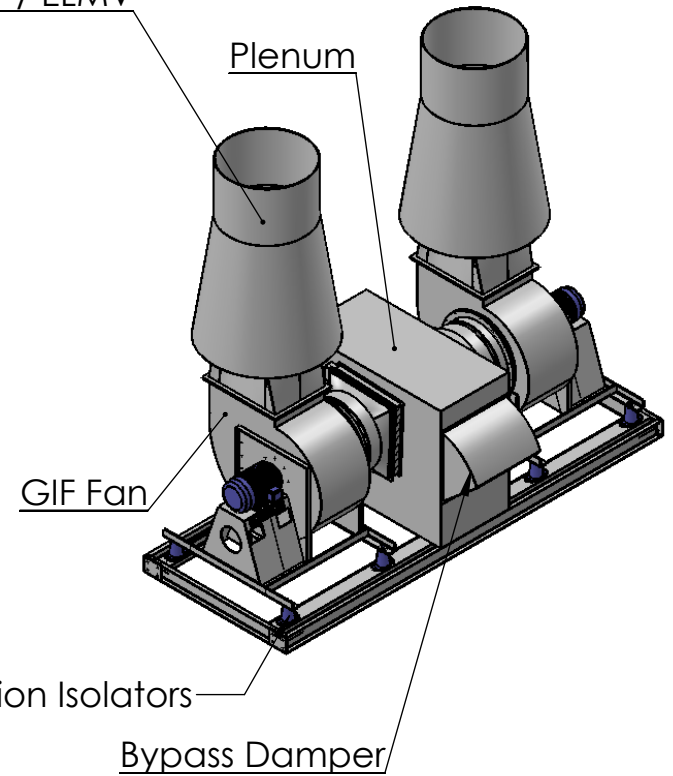
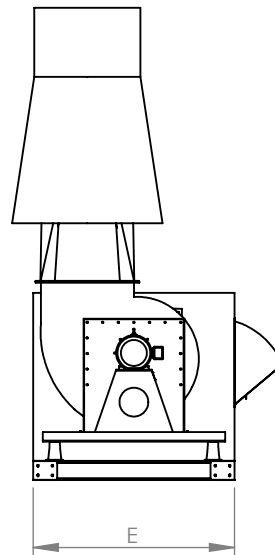
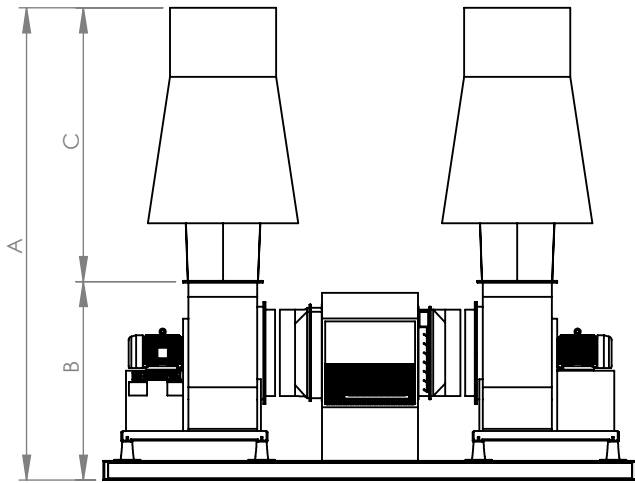


Plasticair

Size	A	B	C	D	E
<i>SKYPLUME G1-ELHV-18 /ELMV-18</i>	106.625	49.17	57.50	88.88	113.50
<i>SKYPLUME G1-ELHV-20 /ELMV-20</i>	116.15	52.75	63.40	90.625	113.50
<i>SKYPLUME G1-ELHV-22 /ELMV-22</i>	126.75	56.375	70.375	92.375	113.50
<i>SKYPLUME G1-ELHV-24 /ELMV-24</i>	137.50	60.00	77.50	94.00	113.76
<i>SKYPLUME G1-ELHV-27 /ELMV-27</i>	149.69	64.44	85.25	103.50	133.00
<i>SKYPLUME G1-ELHV-30 /ELMV-30</i>	159.71	64.81	94.90	111.50	144.00
<i>SKYPLUME G1-ELHV-33 /ELMV-33</i>	173.75	69.75	104.00	121.26	155.12
<i>SKYPLUME G1-ELHV-36 /ELMV-36</i>	190.25	75.00	115.25	126.76	167.76
<i>SKYPLUME G1-ELHV-40 /ELMV-40</i>	208.75	81.50	127.25	135.76	181.24
<i>SKYPLUME G1-ELHV-44 /ELMV-44</i>	228.38	87.88	140.50	145.76	196.62
<i>SKYPLUME G1-ELHV-49 /ELMV-49</i>	251.625	95.50	156.125	153.26	214.14
<i>SKYPLUME G1-ELHV-54 /ELMV-54</i>	275.56	104.56	171.00	175.00	233.00
<i>SKYPLUME G1-ELHV-60 /ELMV-60</i>	303.69	114.19	189.5	183.50	254.00
<i>SKYPLUME G1-ELHV-66 /ELMV-66</i>	332.44	123.94	208.5	202.5	276.14

2 FANS OPPOSED SYSTEM Arr# 4

SKYPLUME G1-ELHV / ELMV



Plenum inlet location optional. Bottom inlet available upon request.

Note: Dimensions are not used for construction, certified drawings available upon request

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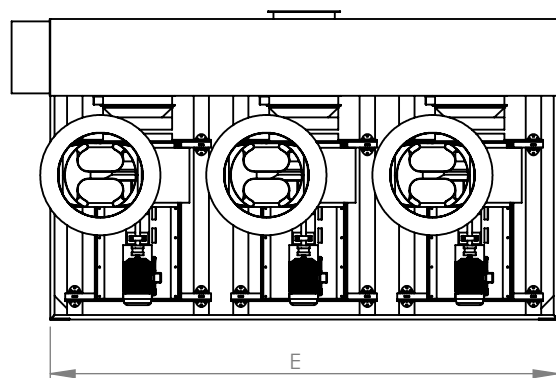
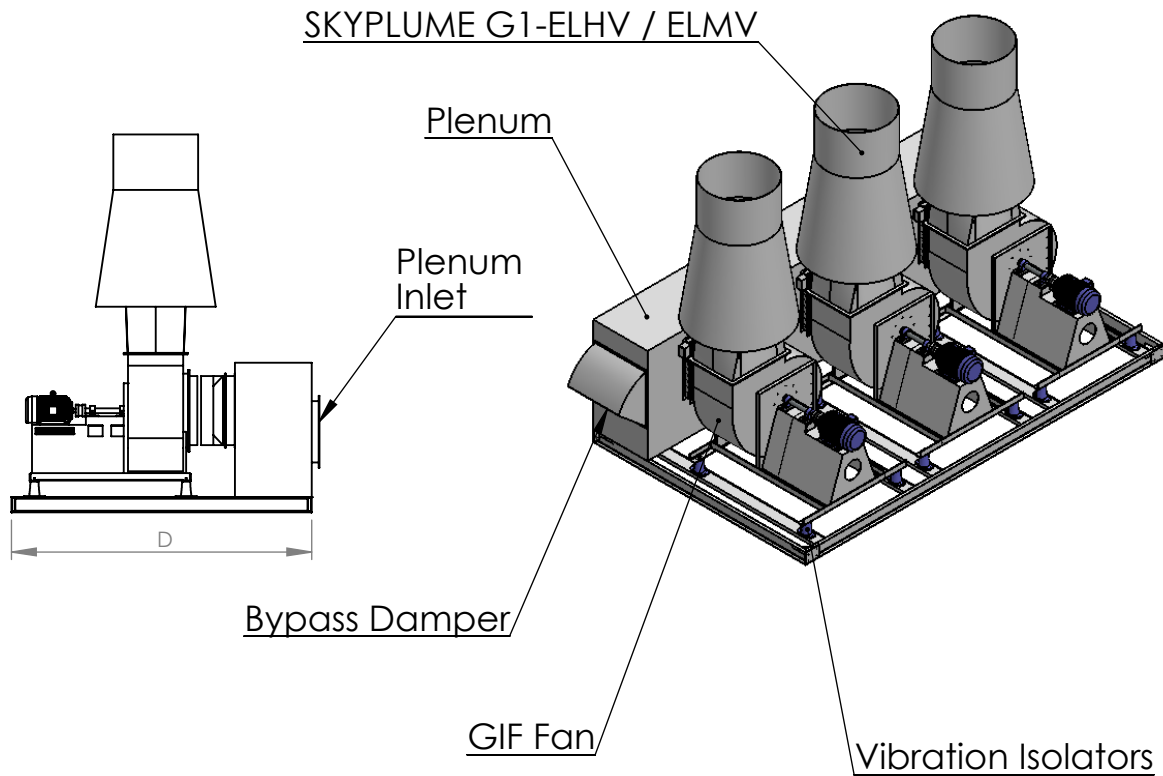
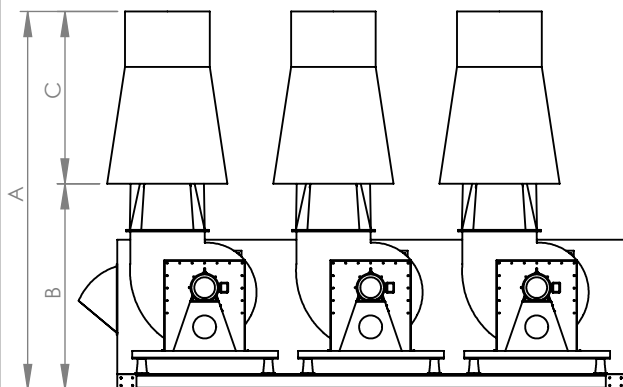
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Size	A	B	C	D	E
SKYPLUME G1-ELHV-18 /ELMV-18	106.625	49.17	57.50	133.31	43.00
SKYPLUME G1-ELHV-20 /ELMV-20	116.15	52.75	63.40	135.87	47.62
SKYPLUME G1-ELHV-22 /ELMV-22	126.75	56.375	70.375	138.43	52.25
SKYPLUME G1-ELHV-24 /ELMV-24	137.50	60.00	77.50	141.00	56.88
SKYPLUME G1-ELHV-27 /ELMV-27	149.69	64.44	85.25	155.25	66.50
SKYPLUME G1-ELHV-30 /ELMV-30	159.71	64.81	94.90	167.25	72.00
SKYPLUME G1-ELHV-33 /ELMV-33	173.75	69.75	104.00	181.89	77.56
SKYPLUME G1-ELHV-36 /ELMV-36	190.25	75.00	115.25	190.14	83.88
SKYPLUME G1-ELHV-40 /ELMV-40	208.75	81.50	127.25	203.64	90.62
SKYPLUME G1-ELHV-44 /ELMV-44	228.38	87.88	140.50	218.64	98.31
SKYPLUME G1-ELHV-49 /ELMV-49	251.625	95.50	156.125	229.89	107.07
SKYPLUME G1-ELHV-54 /ELMV-54	275.56	104.56	171.00	262.50	116.50
SKYPLUME G1-ELHV-60 /ELMV-60	303.69	114.19	189.5	275.25	127.00
SKYPLUME G1-ELHV-66 /ELMV-66	332.44	123.94	208.5	303.75	138.07

3 FANS INLINE SYSTEM Arr#8



Plenum inlet location optional. Bottom inlet available upon request.

Note: Dimensions are not used for construction, certified drawings available upon request

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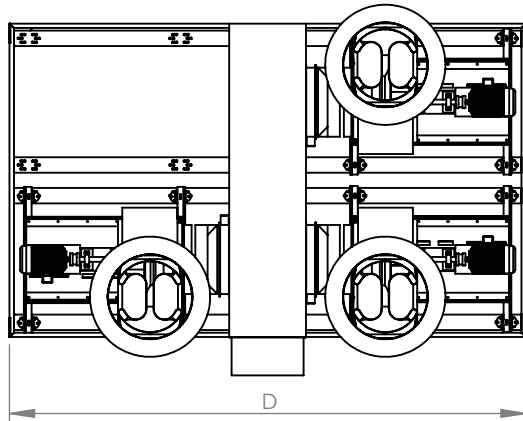
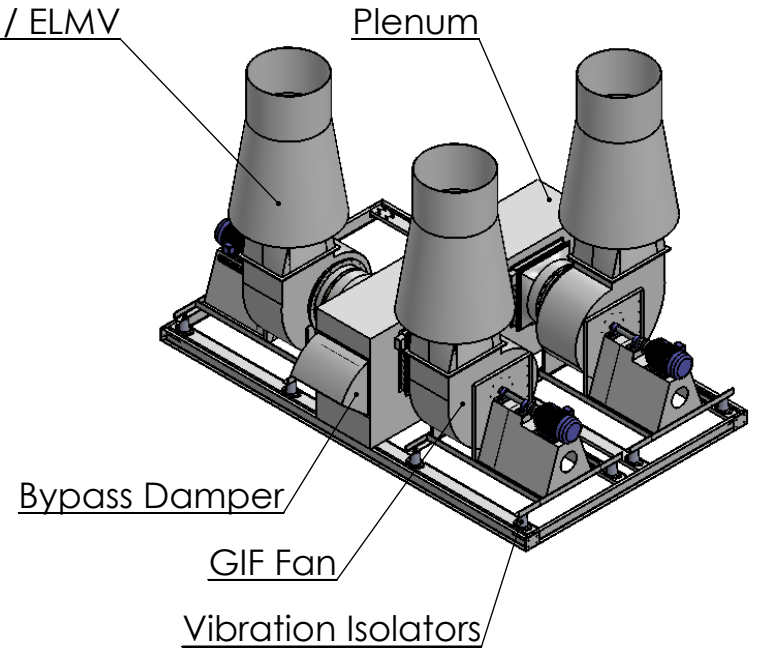
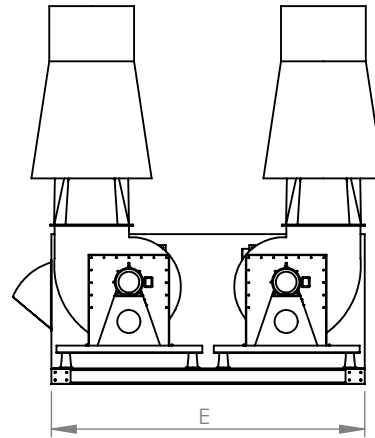
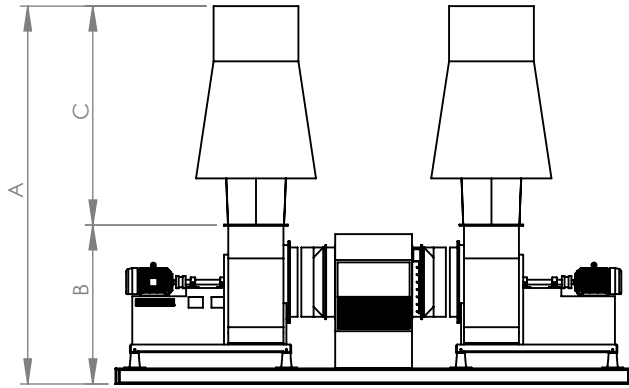


Plasticair

Size	A	B	C	D	E
SKYPLUME G1-ELHV-18 /ELMV-18	106.67	49.17	57.50	124.88	170.25
SKYPLUME G1-ELHV-20 /ELMV-20	116.18	52.78	63.40	130.47	170.25
SKYPLUME G1-ELHV-22 /ELMV-22	126.75	56.39	70.375	136.17	170.25
SKYPLUME G1-ELHV-24 /ELMV-24	137.50	60.00	77.50	142.00	170.64
SKYPLUME G1-ELHV-27 /ELMV-27	149.69	64.44	85.25	151.50	199.50
SKYPLUME G1-ELHV-30 /ELMV-30	159.71	64.81	94.90	171.50	216.00
SKYPLUME G1-ELHV-33 /ELMV-33	173.75	69.75	104.00	181.26	232.68
SKYPLUME G1-ELHV-36 /ELMV-36	190.25	75.00	115.25	186.76	251.64
SKYPLUME G1-ELHV-40 /ELMV-40	208.75	81.50	127.25	203.76	271.86
SKYPLUME G1-ELHV-44 /ELMV-44	228.38	87.88	140.50	213.76	294.93
SKYPLUME G1-ELHV-49 /ELMV-49	251.625	95.50	156.125	221.26	321.21
SKYPLUME G1-ELHV-54 /ELMV-54	275.56	104.56	171.00	251.00	349.50
SKYPLUME G1-ELHV-60 /ELMV-60	303.69	114.19	189.50	259.50	381.00
SKYPLUME G1-ELHV-66 /ELMV-66	332.44	123.94	208.50	278.50	414.21

3 FANS OPPOSED SYSTEM Arr#8

SKYPLUME G1-ELHV / ELMV



Plenum inlet location optional. Bottom inlet available upon request.

Note: Dimensions are not used for construction, certified drawings available upon request

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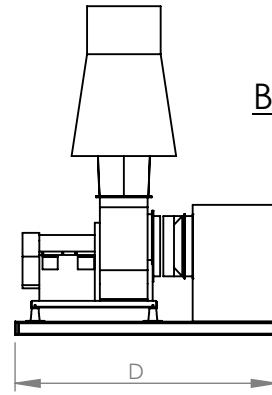
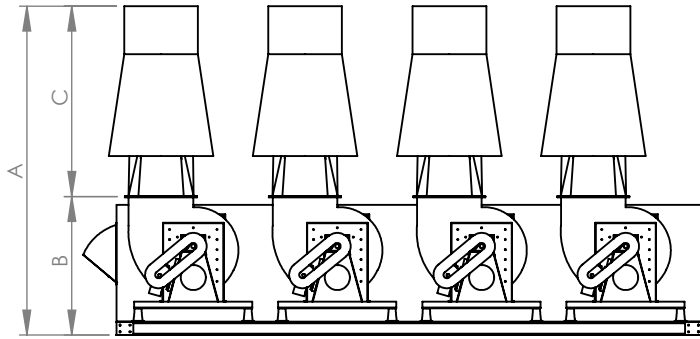


Plasticair

Size	A	B	C	D	E
SKYPLUME G1-ELHV-18 /ELMV-18	106.67	49.17	57.50	187.31	113.50
SKYPLUME G1-ELHV-20 /ELMV-20	116.18	52.78	63.40	195.81	113.50
SKYPLUME G1-ELHV-22 /ELMV-22	126.75	56.39	70.375	204.31	113.50
SKYPLUME G1-ELHV-24 /ELMV-24	137.50	60.00	77.50	213.00	113.76
SKYPLUME G1-ELHV-27 /ELMV-27	149.69	64.44	85.25	227.25	133.00
SKYPLUME G1-ELHV-30 /ELMV-30	159.71	64.81	94.90	257.25	144.00
SKYPLUME G1-ELHV-33 /ELMV-33	173.75	69.75	104.00	271.89	155.12
SKYPLUME G1-ELHV-36 /ELMV-36	190.25	75.00	115.25	280.14	167.76
SKYPLUME G1-ELHV-40 /ELMV-40	208.75	81.50	127.25	305.64	181.24
SKYPLUME G1-ELHV-44 /ELMV-44	228.38	87.88	140.50	320.64	196.62
SKYPLUME G1-ELHV-49 /ELMV-49	251.625	95.50	156.125	331.89	214.14
SKYPLUME G1-ELHV-54 /ELMV-54	275.56	104.56	171.00	376.50	233.00
SKYPLUME G1-ELHV-60 /ELMV-60	303.69	114.19	189.50	389.25	254.00
SKYPLUME G1-ELHV-66 /ELMV-66	332.44	123.94	208.50	417.75	276.14

4 FANS INLINE SYSTEM Arr# 9

SKYPLUME G1-ELHV / ELMV

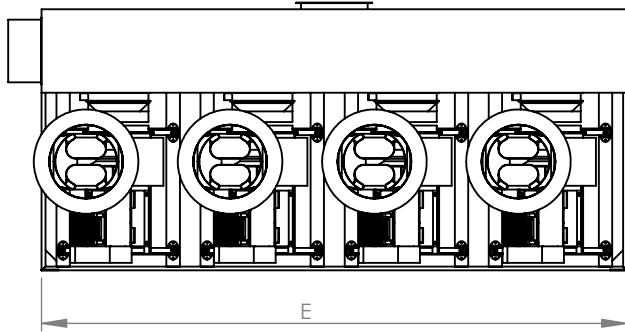
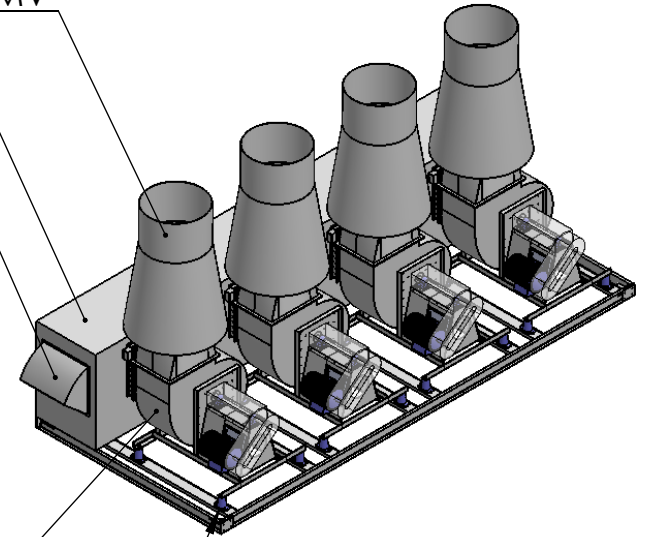


Plenum
Bypass Damper

Plenum Inlet

GIF Fan

Vibration Isolators



Plenum inlet location optional. Bottom inlet available upon request.

Note: Dimensions are not used for construction, certified drawings available upon request

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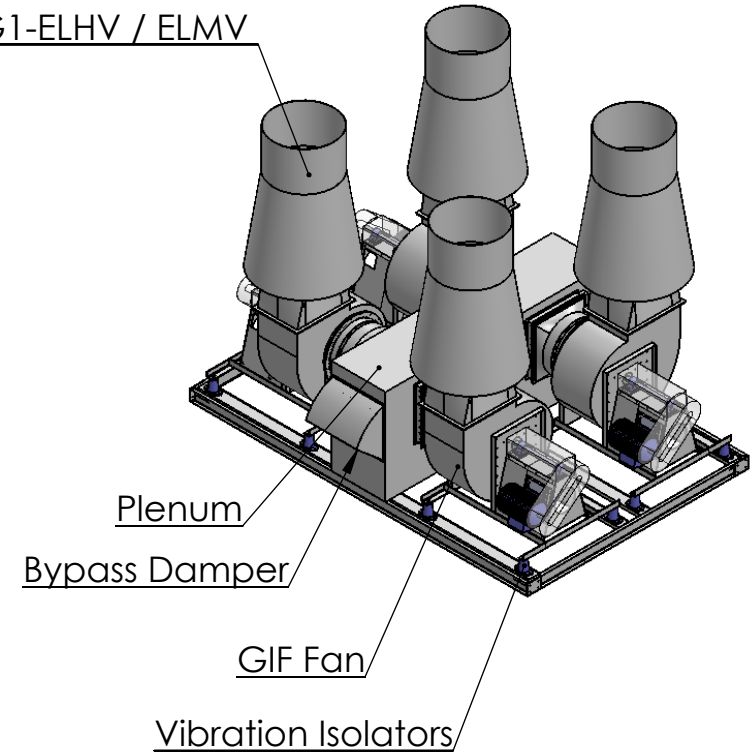
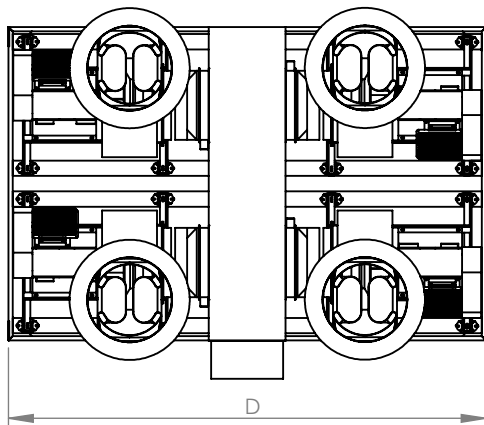
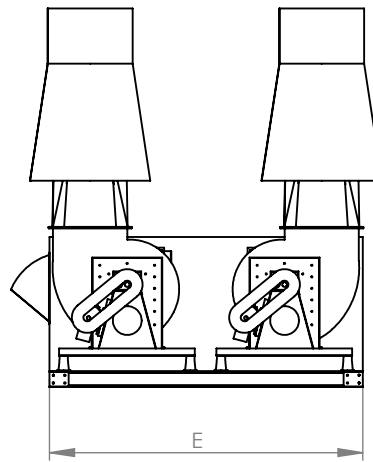
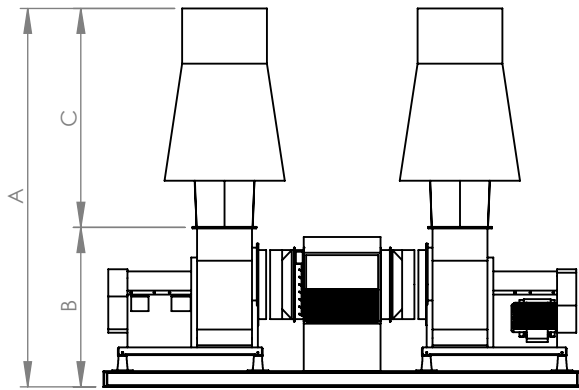


Plasticair

Size	A	B	C	D	E
SKYPLUME G1-ELHV-18 /ELMV-18	106.67	49.17	57.50	88.88	227.00
SKYPLUME G1-ELHV-20 /ELMV-20	116.92	52.78	63.40	91.00	227.00
SKYPLUME G1-ELHV-22 /ELMV-22	126.765	56.39	70.375	93.12	227.00
SKYPLUME G1-ELHV-24 /ELMV-24	137.50	60.00	77.50	94.00	227.52
SKYPLUME G1-ELHV-27 /ELMV-27	149.69	64.44	85.25	103.5	266.00
SKYPLUME G1-ELHV-30 /ELMV-30	159.71	64.81	94.90	111.50	288.00
SKYPLUME G1-ELHV-33 /ELMV-33	173.75	69.75	104.00	121.26	310.24
SKYPLUME G1-ELHV-36 /ELMV-36	190.25	75.00	115.25	126.76	335.52
SKYPLUME G1-ELHV-40 /ELMV-40	208.75	81.50	127.25	135.76	362.48
SKYPLUME G1-ELHV-44 /ELMV-44	228.38	87.88	140.50	145.76	393.24
SKYPLUME G1-ELHV-49 /ELMV-49	251.625	95.50	156.125	153.50	428.28
SKYPLUME G1-ELHV-54 /ELMV-54	275.56	104.56	171.00	175.00	466.00
SKYPLUME G1-ELHV-60 /ELMV-60	303.69	114.19	189.50	183.50	508.00
SKYPLUME G1-ELHV-66 /ELMV-66	332.44	123.94	208.50	202.50	552.28

4 FANS OPPOSED SYSTEM Arr# 9

SKYPLUME G1-ELHV / ELMV



Plenum inlet location optional. Bottom inlet available upon request.

Note: Dimensions are not used for construction, certified drawings available upon request

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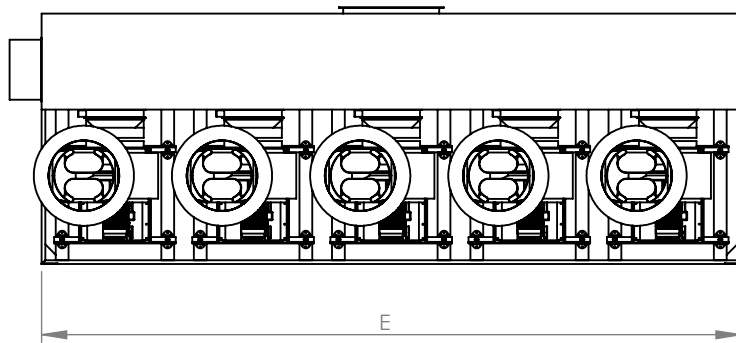
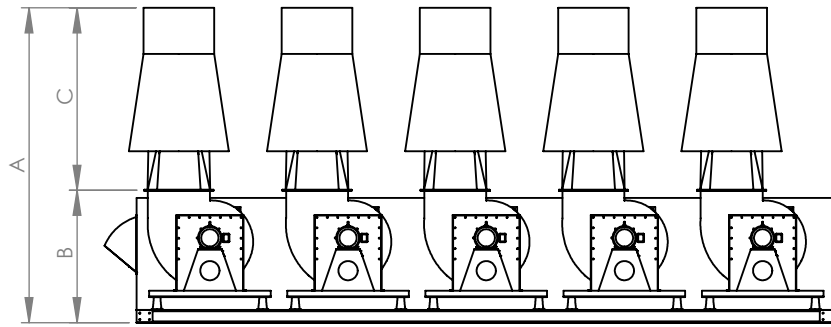
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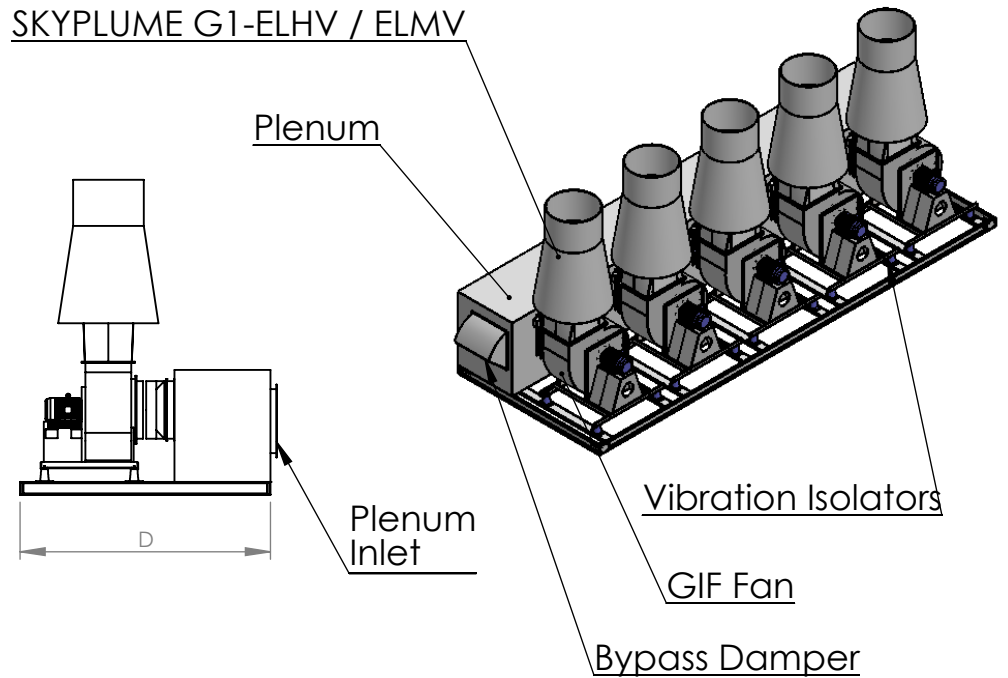
Plasticair

Size	A	B	C	D	E
SKYPLUME G1-ELHV-18 /ELMV-18	106.67	49.17	57.50	133.31	113.50
SKYPLUME G1-ELHV-20 /ELMV-20	116.92	52.78	63.40	135.81	113.50
SKYPLUME G1-ELHV-22 /ELMV-22	126.765	56.39	70.375	138.31	113.50
SKYPLUME G1-ELHV-24 /ELMV-24	137.50	60.00	77.50	141.00	113.76
SKYPLUME G1-ELHV-27 /ELMV-27	149.69	64.44	85.25	155.25	133.00
SKYPLUME G1-ELHV-30 /ELMV-30	159.71	64.81	94.90	167.25	144.00
SKYPLUME G1-ELHV-33 /ELMV-33	173.75	69.75	104.00	181.89	155.12
SKYPLUME G1-ELHV-36 /ELMV-36	190.25	75.00	115.25	190.14	167.76
SKYPLUME G1-ELHV-40 /ELMV-40	208.75	81.50	127.25	203.64	181.24
SKYPLUME G1-ELHV-44 /ELMV-44	228.38	87.88	140.50	218.64	196.62
SKYPLUME G1-ELHV-49 /ELMV-49	251.625	95.50	156.125	229.89	214.14
SKYPLUME G1-ELHV-54 /ELMV-54	275.56	104.56	171.00	262.50	233.00
SKYPLUME G1-ELHV-60 /ELMV-60	303.69	114.19	189.50	275.25	254.00
SKYPLUME G1-ELHV-66 /ELMV-66	332.44	123.94	208.50	303.75	276.14

5 FANS INLINE SYSTEM Arr# 4



SKYPLUME G1-ELHV / ELMV



Plenum inlet location optional. Bottom inlet available upon request.

Note: Dimensions are not used for construction, certified drawings available upon request

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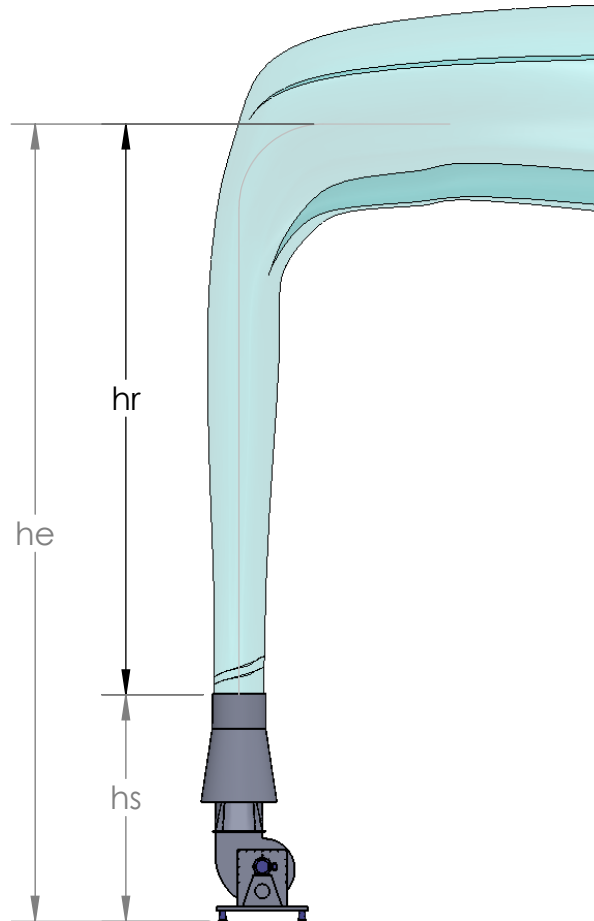
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Plasticair

Size	A	B	C	D	E
<i>SKYPLUME G1-ELHV-18 /ELMV-18</i>	106.625	49.17	57.50	88.88	283.75
<i>SKYPLUME G1-ELHV-20 /ELMV-20</i>	116.15	52.75	63.40	90.50	284.00
<i>SKYPLUME G1-ELHV-22 /ELMV-22</i>	126.75	56.375	70.375	92.25	284.00
<i>SKYPLUME G1-ELHV-24 /ELMV-24</i>	137.50	60.00	77.50	94.00	284.40
<i>SKYPLUME G1-ELHV-27 /ELMV-27</i>	149.69	64.44	85.25	103.50	332.50
<i>SKYPLUME G1-ELHV-30 /ELMV-30</i>	159.71	64.81	94.90	111.50	360.00
<i>SKYPLUME G1-ELHV-33 /ELMV-33</i>	173.75	69.75	104.00	121.26	387.80
<i>SKYPLUME G1-ELHV-36 /ELMV-36</i>	190.25	75.00	115.25	126.76	419.40
<i>SKYPLUME G1-ELHV-40 /ELMV-40</i>	208.75	81.50	127.25	135.76	453.10
<i>SKYPLUME G1-ELHV-44 /ELMV-44</i>	228.38	87.88	140.50	145.76	491.55
<i>SKYPLUME G1-ELHV-49 /ELMV-49</i>	251.625	95.50	156.125	153.26	535.35
<i>SKYPLUME G1-ELHV-54 /ELMV-54</i>	275.56	104.56	171.00	175.00	582.50
<i>SKYPLUME G1-ELHV-60 /ELMV-60</i>	303.69	114.19	189.5	183.50	635.00
<i>SKYPLUME G1-ELHV-66 /ELMV-66</i>	332.44	123.94	208.5	202.50	690.35

Plume Height Calculation



$$h_e = h_r + h_s$$

$$h_e = \frac{3 \times V \times D}{U} + h_s$$

h_e = Effective plume height (ft)

h_r = Plume rise (ft)

h_s = Stack height (ft)

V = Windband exit velocity (ft/min)

D = Windband outlet diameter (ft)

U = Crosswind speed (ft/min)

Plume height calculations are typically calculated with a 10 mph (880 ft/min) crosswind



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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		NAME	DATE	Plume Height Calculation
				DRAWN	Y.I. Aug 22	
				CHECKED		
				ENG APPR.		
				MFG APPR.		
				Q.A.		
				COMMENTS:		
NEXT ASSY	USED ON	FINISH				
APPLICATION		DO NOT SCALE DRAWING				
				SIZE	DWG. NO.	
				A		
				SCALE:1:192	WEIGHT:	SHEET 1 OF 1

SKYPLUME G1-ELHV-18			Nozzle Outlet Area = 0.719 ft ²												MAX Speed = 3558 RPM										
		0.5" S.P.			1" S.P.			2" S.P.			3" S.P.			4" S.P.			5" S.P.			6" S.P.			7" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
2000	2779.6	970	0.44	296.9	1150	0.69	301.7	1449	1.27	307.7	1695	1.92	300.9	-	-	-	-	-	-	-	-	-	-	-	-
3000	4169.5	1303	1.09	296.9	1427	1.41	296.9	1664	2.14	301.7	1891	2.98	301.7	2085	3.86	307.7	2257	4.74	307.7	2421	5.69	300.9	-	-	-
4000	5559.3	1664	2.28	293.9	1759	2.68	296.9	1940	3.55	296.9	2125	4.53	298.9	2299	5.57	301.7	2469	6.70	301.7	2623	7.84	307.7	2765	9.02	307.7
5000	6949.1	2035	4.19	293.9	2114	4.68	293.9	2267	5.72	296.9	2409	6.81	296.9	2558	8.01	298.9	2700	9.23	298.9	2839	10.54	301.7	2979	11.95	301.7
6000	8338.9	2413	7.00	293.9	2480	7.58	293.9	2606	8.74	296.9	2735	10.05	296.9	2854	11.35	296.9	2975	12.72	298.9	3099	14.19	298.9	3216	15.66	298.9
7000	9728.7	2793	10.87	293.9	2852	11.55	293.9	2964	12.90	293.9	3072	14.31	296.9	3182	15.83	296.9	3286	17.35	296.9	3384	18.87	296.9	3492	20.50	298.9
8000	11118.6	3176	15.99	293.9	3228	16.76	293.9	3329	18.31	293.9	3423	19.86	293.9	3519	21.50	296.9	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELMV-18			Nozzle Outlet Area = 0.990 ft ²												MAX Speed = 3558 RPM										
		0.5" S.P.			1" S.P.			2" S.P.			3" S.P.			4" S.P.			5" S.P.			6" S.P.			7" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
3000	3031.2	1191	0.83	234.7	1317	1.13	235.0	1557	1.80	233.4	1788	2.58	239.73	-	-	-	-	-	-	-	-	-	-	-	-
4000	4041.5	1504	1.66	231.5	1610	2.05	234.7	1798	2.87	235.0	1970	3.72	234.96	2156	4.70	233.4	2326	5.72	239.7	2495	6.88	239.7	-	-	-
5000	5051.9	1828	2.97	231.5	1920	3.46	234.7	2080	4.44	234.7	2229	5.46	234.96	2372	6.53	235.0	2512	7.64	233.4	2660	8.87	233.4	2798	10.10	233.4
6000	6062.3	2157	4.88	231.5	2237	5.46	231.5	2381.7	6.64	234.7	2511	7.82	234.74	2635	9.03	235.0	2758	10.31	235.0	2874	11.58	235.0	2988.5	12.91	233.4
7000	7072.7	2490	7.51	231.5	2561	8.18	231.5	2692	9.54	234.7	2810	10.92	234.74	2920	12.30	234.7	3024	13.69	235.0	3134	15.17	235.0	3238	16.66	235.0
8000	8083.1	2826	10.97	231.5	2890	11.74	231.5	3009	13.29	231.5	3118	14.85	234.75	3220	16.43	234.7	3316.5	18.00	234.7	3408	19.58	234.7	3508	21.23	235.0
9000	9093.5	3165	15.38	231.5	3222	16.25	231.5	3330	18.00	231.5	3432	19.74	231.5	3527	21.51	234.7	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELHV-20			Nozzle Outlet Area = 0.864 ft ²												MAX Speed = 3246 RPM										
		1.5" S.P.			3" S.P.			4.5" S.P.			6" S.P.			7.5" S.P.			9" S.P.			10.5" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
2700	3057.6	1245	1.37	301.8	1581	2.56	307.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4000	4529.7	1498	2.58	298.9	1791	4.12	301.8	2047	5.84	307.8	2265	7.60	307.75	2467	9.50	300.9	-	-	-	-	-	-	-	-	-
5300	6002.0	1817	4.66	296.9	2043	6.47	298.9	2260	8.44	301.8	2474	10.69	301.79	2665	12.96	307.8	2838	15.29	307.8	2998	17.63	307.8	3147	19.97	307.8
6600	7474.1	2157	7.84	294.0	2345	9.97	296.9	2525.2	12.24	298.9	2703	14.66	298.93	2878	17.28	301.8	3048	20.08	301.8	3207	22.87	301.8	-	-	-
7900	8946.2	2514	12.45	294.0	2673	14.87	296.9	2826	17.44	296.9	2975	20.13	298.93	3130	23.02	298.9	-	-	-	-	-	-	-	-	-
9200	10418.4	2876	18.72	294.0	3014	21.39	294.0	3152	24.34	296.9	3283	27.34	296.94	-	-	-	-	-	-	-	-	-	-	-	-
10490	11889.4	3246	26.90	294.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELMV-20			Nozzle Outlet Area = 1.189 ft ²												MAX Speed = 3246 RPM										
		1.5" S.P.			3" S.P.			4.5" S.P.			6" S.P.			7.5" S.P.			9" S.P.			10.5" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
3250	2733.6	1250	1.48	233.4	1595	2.80	239.7	1879	4.31	240.8	2122	5.88	240.75	-	-	-	-	-	-	-	-	-	-	-	-
4500	3785.0	1490	2.59	235.0	1753	4.07	233.4	2007	5.79	239.7	2245	7.75	239.73	2457	9.79	240.8	2649	11.98	240.8	2826	14.16	240.8	2992	16.34	240.8
5750	4836.4	1769	4.31	234.7	1983	6.07	235.0	2182	7.94	233.4	2390	10.06	233.41	2585	12.34	239.7	2775	14.84	239.7	2949	17.34	239.7	3113	19.97	240.8
7000	5887.9	2061	6.77	234.7	2245	8.84	234.7	2420	11.02	235.0	2582	13.25	234.96	2755	15.75	233.4	2922	18.33	233.4	3080	21.02	239.7	3242	24.06	239.7
8250	6939.3	2361	10.15	231.50	2528	12.57	234.7	2678	15.01	234.7	2828	17.61	234.96	2969	20.24	235.0	3104	22.91	233.4	-	-	-	-	-	-
9500	7990.7	2666	14.59	231.5	2820	17.37	234.7	2958	20.17	234.7	3086	22.98	234.74	3218	25.97	235.0	-	-	-	-	-	-	-	-	-
10750	9042.1	2975	20.27	231.5	3118	23.39	231.5	3246	26.56	234.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELHV-22			Nozzle Outlet Area = 1.084 ft ²												MAX Speed = 2973 RPM										
		1.5" S.P.			3" S.P.			4.5" S.P.			6" S.P.			7.5" S.P.			9" S.P.			10.5" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
2800	2583.6	1056	1.36	307.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4545	4193.8	1284	2.73	298.9	1562	4.55	301.8	1793	6.54	307.8	1992	8.59	300.93	-	-	-	-	-	-	-	-	-	-	-	-
6288	5802.1	1583	5.25	296.9	1795	7.42	298.9	1999	9.85	301.8	2192	12.52	301.79	2364	15.25	307.8	2519	18.02	307.8	2663	20.79	307.8	2807	23.88	300.9
8031	7410.4	1911	9.30	294.0	2083	11.90	296.9	2249	14.69	298.9	2409	17.63	298.93	2570	20.89	301.8	2724	24.29	301.8	2867	27.69	301.8	-	-	-
9774	9018.7	2259	15.39	294.0	2402	18.38	296.9	2540	21.47	296.9	2674	24.89	298.93	2813	28.48	298.9	2942	32.06	298.9	-	-	-	-	-	-
11517	10627.0	2613	23.89	294.0	2735	27.24	294.0	2857	30.92	296.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13260	12235.3	2973	35.22	294.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

1. Performance certified is for installation Type C: Ducted inlet, free outlet.
2. Power rating (BHP) does not include transmission losses.
3. Performance ratings do not include the effects of aperturances (accessories).
4. Performance ratings do not include the effects of crosswinds.

SKYPLUME G1-ELMV-22			Nozzle Outlet Area = 1.491 ft ²															MAX Speed = 2973 RPM							
		1.5" S.P.			3" S.P.			4.5" S.P.			6" S.P.			7.5" S.P.			9" S.P.			10.5" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
3750	2515.5	1094	1.67	233.4	1413	3.23	239.7	1670	5.03	240.8	1890	6.88	252.22	-	-	-	-	-	-	-	-	-	-	-	-
5250	3521.7	1292	2.87	235.0	1542	4.66	233.4	1780	6.77	239.7	1994	9.05	239.73	2185	11.57	240.8	2358	14.12	240.8	2518	16.67	240.8	2671	19.39	252.2
6750	4527.9	1529	4.75	234.7	1730	6.84	235.0	1922	9.13	233.4	2111	11.62	233.41	2296	14.50	239.7	2466	17.44	239.7	2624	20.45	240.8	2772	23.72	240.8
8250	5534.1	1781	7.46	234.7	1951	9.90	234.7	2116	12.52	235.0	2268	15.21	233.41	2433	18.25	233.4	2583	21.30	233.4	2737	24.80	239.7	2481	28.39	258.7
9750	6540.3	2041	11.18	231.5	2196	14.06	234.7	2335	16.97	234.7	2475	20.07	234.96	2604	23.18	235.0	2740	26.59	233.4	2877	30.19	233.4	-	-	-
11250	7546.5	2305	16.10	231.5	2448	19.39	234.7	2575	22.71	234.7	2696	26.08	234.96	2818	29.67	235.0	2933	33.25	235.0	-	-	-	-	-	-
12750	8552.7	2574	22.38	231.5	2706	26.09	234.7	2824	29.85	234.7	2935	33.62	234.74	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELHV-24			Nozzle Outlet Area = 1.328 ft ²															MAX Speed = 2750 RPM							
		1.5" S.P.			3" S.P.			4.5" S.P.			6" S.P.			7.5" S.P.			9" S.P.			10.5" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
6000	4518.8	1237	4.02	293.2	1455.1	6.26	294.9	1662.96	8.83	297.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8000	6025.1	1515	7.46	293.2	1688.37	10.16	292.1	1850.16	13.10	292.1	2014.37	16.35	294.85	2168.09	19.74	294.9	-	-	-	-	-	-	-	-	-
10000	7531.3	1810	12.76	292.7	1957.03	16.02	293.2	2092.94	19.39	292.1	2227.2	23.03	292.05	2350.02	26.66	292.1	2485.34	30.87	294.9	2612.56	35.11	294.9	-	-	-
11000	8284.5	1964	16.29	292.7	2097.81	19.79	293.2	2224.86	23.44	293.2	2348.95	27.29	292.05	2468.44	31.29	292.1	2579.65	35.28	292.1	-	-	-	-	-	-
12000	9037.6	2119	20.46	292.7	2241.04	24.17	293.2	2362.44	28.16	293.2	2474.03	32.14	293.17	2589.57	36.48	292.1	2698.06	40.84	292.1	-	-	-	-	-	-
13000	9790.7	2276	25.33	292.7	2386.71	29.25	292.2	2502.42	33.55	293.2	2609.8	37.87	293.17	-	-	-	-	-	-	-	-	-	-	-	-
14000	10543.9	2433	30.97	292.7	2538.42	35.18	292.2	2644.51	36.68	293.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELMV-24			Nozzle Outlet Area = 1.826 ft ²															MAX Speed = 2750 RPM							
		1.5" S.P.			3" S.P.			4.5" S.P.			6" S.P.			7.5" S.P.			9" S.P.			10.5" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
6000	3285.2	1201	3.71	252.9	1497	6.74	253.2	1634	8.42	253.2	1762	10.26	258.7	1880	12.15	258.7	2096	16.01	250.7	-	-	-	-	-	-
8000	4350.2	1421	6.18	258.1	1654	9.63	252.9	1765	11.52	252.9	1871	13.49	253.2	1985	15.72	253.2	2190	20.20	253.2	2380	25.17	258.7	2554	30.21	258.7
10000	5475.3	1602	8.82	262.5	1764	11.80	258.1	1908	14.91	258.1	2045	18.22	252.9	2180	21.76	252.9	2303	25.29	252.9	2442	29.49	253.2	2572	33.68	253.2
12000	6570.3	1856	13.69	262.5	2001	17.22	262.5	2132	20.84	258.1	2253	24.57	258.1	2364	28.30	258.1	2482	32.50	252.9	2594	36.74	252.9	2700	40.99	252.9
14000	7655.4	2111	20.18	256.1	2248	24.37	262.5	2367	28.50	262.5	2478	32.73	258.1	2583.6	37.09	258.1	2682	41.44	258.1	-	-	-	-	-	-
16000	8632.9	2370	28.60	256.1	2500	33.49	262.5	2610	38.21	262.5	2713	42.92	262.5	-	-	-	-	-	-	-	-	-	-	-	-
18000	9855.5	2632	39.23	256.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELHV-27			Nozzle Outlet Area = 1.630 ft ²															MAX Speed = 2500 RPM							
		2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.			14" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
8000	4909.2	1330	7.84	292.1	1507.49	10.96	294.9	1675.59	14.39	297.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9500	5829.7	1472	10.80	293.2	1626.43	14.22	292.1	1775.86	17.97	294.9	1921.02	22.01	294.85	-	-	-	-	-	-	-	-	-	-	-	-
11000	6750.1	1628	14.69	293.2	1764.28	18.45	292.1	1894.58	22.45	292.1	2022.89	26.74	294.85	2152.55	31.41	294.9	2272.46	36.08	294.9	2428.3	42.95	297.0	-	-	-
12500	7670.6	1788	19.54	293.2	1911.87	23.69	293.2	2031.66	28.90	292.1	2145.5	32.63	292.05	2255.34	37.33	294.9	2373.37	42.64	294.9	-	-	-	-	-	-
14000	8591.1	1952	25.48	293.2	2068.41	30.13	293.2	2174.42	34.78	293.2	2282.57	39.80	292.05	2384.59	44.89	292.1	2480.33	49.97	292.1	-	-	-	-	-	-
15500	9511.6	2123	32.79	292.2	2228.43	37.80	293.2	2329.23	42.94	293.2	2423.3	48.10	292.05	-	-	-	-	-	-	-	-	-	-	-	-
17000	10432.1	2298	41.54	292.2	2391.39	46.80	293.2	2487.26	52.45	293.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELMV-27			Nozzle Outlet Area = 2.242 ft ²															MAX Speed = 2500 RPM							
		2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.			14" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
8000	3569.0	1218	6.15	252.9	1398	8.99	253.2	1579.7	12.35	253.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9500	4238.2	1139	8.22	258.1	1498	11.37	252.9	1646.3	14.73	252.9	1802.4	18.67	253.2	-	-	-	-	-	-	-	-	-	-	-	-
11000	4907.4	1468	10.82	258.1	1609	14.24	258.1	1747.3	18.00	252.9	1876	21.89	252.9	2009.1	26.26	253.2	2139.2	30.88	253.20	2298.9	37.03	253.2	2450.9	43.93	258.7
12500	5576.6	1601	14.05	262.5	1735	17.88	258.1	1854.3	21.77	258.1	1977.4	26.11	252.9	2092.5	30.53	252.9	2203.8	35.12	253.2	2362.6	42.12	253.2	-	-	-
14000	6245.7	1739	17.98	262.5	1864	22.17	258.1	1978.6	25.52	258.1	2083.7	30.87	258.1	2194.5	35.76	252.9	2299.4	40.71	252.9	2429.6	47.31	252.9	-	-	-
15500	6914.9	1880	22.69	262.5	1997	27.26	262.5	2106	32.00	258.1	2207.5	36.82	258.1	2302	41.64	258.1	2402	46.99	252.9	-	-	-	-	-	-
17000	7584.1	2022	28.24	262.5	2134	33.25	262.5	2236.4	38.28	258.1	2334.2	43.57	258.1	2425.8	48.86	258.1	-	-	-	-	-	-	-	-	-

- NOTES:**
1. Performance certified is for installation Type C: Ducted inlet, free outlet.
 2. Power rating (BHP) does not include transmission losses.
 3. Performance ratings do not include the effects of appurtenances (accessories).
 4. Performance ratings do not include the effects of crosswinds.

SKYPLUME G1-ELHV-30			Nozzle Outlet Area = 1.991 ft ²										MAX Speed = 2200 RPM													
		1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.			
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	
8000	4018.1	882	3.94	293.2	1082.2	6.91	294.9	1268	10.43	297.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10500	5273.8	1077	7.23	293.2	1239.25	10.81	292.1	1388.07	14.71	294.9	1537.58	19.17	294.85	-	-	-	-	-	-	-	-	-	-	-	-	-
13000	6529.4	1284	12.29	292.7	1420.84	16.51	293.2	1548.5	21.03	292.1	1667.29	25.76	292.05	1791.54	31.11	294.9	1908.87	36.63	294.9	-	-	-	-	-	-	-
15500	7785.1	1499	19.52	292.7	1614.87	24.37	293.2	1725.78	29.51	293.2	1833.09	34.96	292.05	1935.41	40.58	292.1	2033.25	46.37	294.9	2139.41	52.95	294.9	-	-	-	-
18000	9040.8	1717	29.32	292.7	1815.81	34.74	292.7	1916.92	40.67	293.2	2010.49	46.64	293.17	2102.92	52.93	292.1	2193.59	59.46	292.1	-	-	-	-	-	-	-
20500	10296.5	1937	42.09	292.7	2026.3	48.26	292.7	2113.4	54.68	293.2	2200.83	61.49	293.17	-	-	-	-	-	-	-	-	-	-	-	-	-
23000	11552.2	2159	58.24	292.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELMV-30			Nozzle Outlet Area = 2.738 ft ²										MAX Speed = 2200 RPM													
		1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.			
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	
8000	2921.6	798	2.95	258.1	1003	5.66	252.9	1199	8.98	253.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10500	3834.6	961	5.14	262.5	1131	8.36	258.1	1288	12.03	252.9	1441	16.22	253.2	-	-	-	-	-	-	-	-	-	-	-	-	-
13000	4747.7	1132	8.39	262.5	1284	12.28	258.1	1413	16.33	258.1	1544	20.90	252.9	1662	25.57	253.2	1790	31.03	253.2	-	-	-	-	-	-	-
15500	5660.7	1308	12.92	256.1	1445	17.50	262.5	1565	22.25	258.1	1673	27.07	258.1	1783	32.44	252.9	1886	37.92	252.9	1985	43.55	253.2	2128	52.23	253.2	
18000	6573.7	1484	18.94	256.1	1614	24.33	262.5	1723	29.65	258.1	1825	35.24	258.1	1918	40.84	258.1	2011	46.81	252.9	2105	53.18	252.9	2221	61.67	252.9	
21000	7669.3	1700	28.50	256.1	1821	34.91	262.5	1921	41.10	262.5	2014	47.32	258.1	2102	53.85	258.1	2184	60.38	258.1	2262	66.91	258.1	-	-	-	
24000	8764.9	1919	41.03	256.1	2032	48.48	256.1	2125	55.58	262.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

SKYPLUME G1-ELHV-33			Nozzle Outlet Area = 2.455 ft ²										MAX Speed = 2000 RPM													
		1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.			
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	
9500	3870.3	791	4.59	293.2	977.15	8.15	298.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12500	5092.5	966	8.42	293.2	1116.17	12.69	292.1	1254.1	17.40	294.9	1390.3	22.71	294.85	-	-	-	-	-	-	-	-	-	-	-	-	
15500	6314.7	1153	14.32	292.7	1278.53	19.36	293.2	1396.09	24.79	292.1	1504.53	30.42	292.05	1620.08	36.91	294.9	1726.93	43.49	294.9	1829.27	50.45	297.0	-	-	-	
18500	7536.9	1346	22.77	292.7	1452.92	28.57	293.2	1554.51	34.72	293.2	1653.49	41.26	292.05	1746.89	47.98	292.1	1838.71	55.05	294.9	1935.4	62.90	294.9	-	-	-	
21500	8759.1	1542	34.23	292.7	1633.2	40.71	292.7	1726.35	47.82	293.2	1811.95	54.96	292.05	1897.42	62.53	292.1	1980.18	70.34	292.1	-	-	-	-	-	-	
24500	9981.3	1740	49.19	292.7	1822.66	56.57	292.7	1903.07	64.28	293.2	1983.09	74.42	293.17	-	-	-	-	-	-	-	-	-	-	-	-	
27500	11203.5	1940	68.13	292.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELMV-33			Nozzle Outlet Area = 3.376 ft ²										MAX Speed = 2000 RPM												
		1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
9500	2813.7	717	3.45	258.1	905	6.68	252.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12500	3702.3	863	6.00	262.5	1019	9.85	258.1	1163	14.25	252.9	1305	19.30	253.2	-	-	-	-	-	-	-	-	-	-	-	-
15500	4590.8	1017	9.80	262.5	1156	14.45	258.1	1276	19.30	252.9	1395	24.78	252.9	1506	30.48	253.2	1622	36.99	253.2	1729	43.49	253.2	-	-	-
18500	5479.3	1175	15.11	256.1	1301	20.57	262.5	1411	26.26	258.1	1509	32.01	258.1	1611	38.49	252.9	1706	45.04	252.9	1799	51.98	253.2	1929	62.33	253.2
21500	6367.9	1334	22.16	256.1	1452	28.59	262.5	1553	34.96	258.1	1646	41.65	258.1	1731	48.33	258.1	1818	55.58	252.9	1903	63.19	252.9	-	-	-
25000	7523.6	1523	33.01	256.1	1634	40.63	262.5	1726	47.99	262.5	1810	55.44	258.1	1891	63.22	258.1	1967	70.99	258.1	-	-	-	-	-	-
28500	8441.1	1715	47.14	256.1	1819	55.99	256.1	1904	64.39	262.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELHV-36			Nozzle Outlet Area = 2.947 ft ²										MAX Speed = 1800 RPM												
		1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
10000	3393.0	651	4.18	292.1	839.12	8.19	294.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13500	4580.6	795	7.75	293.2	942.94	12.49	292.1	1084.39	18.02	294.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17000	5768.1	951	13.29	292.7	1074.15	18.91	293.2	1189.96	25.08	292.1	1303.64	31.93	294.85	1411.29	39.15	294.9	-	-	-	-	-	-	-	-	-
20500	6955.7	1115	21.44	292.7	1221.31	28.01	293.2	1320.17	37.94	292.1	1415.97	42.41	292.05	1507.51	50.20	294.9	1603.18	58.90	294.9	1691.69	67.60	294.9	-	-	-
24000	8143.3	1283	32.62	292.7	1373.67	40.03	293.2	1462.76	47.99	293.2	1546.57	56.21	292.05	1629.5	64.93	292.1	1706.27	73.64	292.1	1787.76	83.31	294.9	-	-	-
27500	9330.8	1453	47.35	292.7	1532.15	55.63	292.7	1612.5	64.59	293.2	1688.21	73.72	293.17	1760.93	83.09	292.1	-	-	-	-	-	-	-	-	-
31000	10518.4	1624	66.15	292.7	1696.33	75.48	292.7	1765.98	85.09	293.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

1. Performance certified is for installation Type C: Ducted inlet, free outlet.
2. Power rating (BHP) does not include transmission losses.
3. Performance ratings do not include the effects of appurtenances (accessories).
4. Performance ratings do not include the effects of crosswinds.

SKYPLUME G1-ELMV-36			Nozzle Outlet Area = 4.053 ft ²												MAX Speed = 1800 RPM										
		1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
13500	3330.5	714	5.63	262.5	867	10.02	252.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17000	4274.6	844	9.30	262.5	978	14.47	258.1	1098	20.16	252.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20500	5057.4	979	14.47	262.5	1099	20.55	258.1	1204	26.92	258.1	1304	33.82	252.9	1398	41.07	252.9	-	-	-	-	-	-	-	-	-
24000	5920.8	1116	21.42	256.1	1227	28.54	262.5	1323	35.82	258.1	1410	43.29	258.1	1495	51.22	252.9	1579	59.71	252.9	1658	68.20	252.9	1768	80.90	253.2
27500	6784.3	1254	30.45	256.1	1359	38.72	262.5	1447	46.82	262.5	1529	55.31	258.1	1605	63.86	258.1	1677	72.58	252.9	1754	82.31	252.9	-	-	-
31000	7647.8	1394	41.88	256.1	1493	51.34	262.5	1576	60.47	262.5	1652	69.66	258.1	1724	79.30	258.1	-	-	-	-	-	-	-	-	-
34500	8511.2	1535	56.02	256.1	1630	66.72	262.5	1708	76.89	262.5	1779	87.05	262.5	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELHV-40			Nozzle Outlet Area = 3.583 ft ²												MAX Speed = 1700 RPM										
		1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
15000	4186.1	676	7.74	293.2	819.12	13.15	294.9	955.74	19.60	297.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20000	5581.4	839	14.90	292.7	954.75	21.60	292.1	1060.95	28.86	292.1	1168.37	37.15	294.85	1267.05	45.76	297.0	-	-	-	-	-	-	-	-	-
25000	6976.7	1014	26.27	292.7	1109.8	34.28	293.2	1199.19	42.75	292.1	1285.99	51.83	292.05	1368.55	61.29	294.9	1455.27	71.90	294.9	1535.51	82.51	294.9	-	-	-
30000	8372.1	1193	42.75	292.7	1272.6	51.93	293.2	1352.19	61.89	293.2	1425.67	71.98	292.05	1500.2	82.87	292.0	1569.37	93.76	292.1	1638.21	105.23	294.9	-	-	-
35000	9767.4	1374	65.35	292.7	1443.67	75.88	292.7	1512.89	87.09	293.2	1579.95	98.71	293.17	1642.48	110.33	293.2	-	-	-	-	-	-	-	-	-
40000	11162.8	1557	95.09	292.7	1649.72	107.13	292.7	1677.97	119.17	292.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43000	12000.0	1668	116.78	292.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELMV-40			Nozzle Outlet Area = 4.929 ft ²												MAX Speed = 1700 RPM										
		1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
15000	3043.1	610	5.74	258.1	760	10.76	252.9	902	16.84	253.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20000	4057.5	747	10.49	262.5	870	16.60	258.1	982	23.41	252.9	1088	30.90	253.2	1195	39.29	253.2	-	-	-	-	-	-	-	-	-
25000	5071.9	890	17.72	262.5	999	25.13	258.1	1093	32.90	258.1	1183	41.30	252.9	1269	50.14	252.9	1355	59.70	253.2	1442	70.19	253.2	-	-	-
30000	6086.2	1036	27.94	256.1	1135	36.87	262.5	1221	45.91	258.1	1299	55.24	258.1	1373	64.85	252.9	1449	75.46	252.9	1520	86.07	252.9	1613	101.14	253.2
35000	7100.6	1183	41.76	256.1	1276	52.34	262.5	1355	62.65	262.5	1427	73.30	258.1	1495	84.19	258.1	1558	95.07	258.1	1623	106.88	252.9	-	-	-
40000	8115.0	1333	59.80	256.1	1421	72.11	262.5	1493	83.90	262.5	1560	95.98	262.5	1623	107.90	258.1	-	-	-	-	-	-	-	-	-
45000	9129.3	1485	82.67	256.1	1567	96.64	256.1	1635	110.06	262.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELHV-44			Nozzle Outlet Area = 4.381 ft ²												MAX Speed = 1500 RPM										
		1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
18000	4109.1	604	9.09	293.2	735.7	15.67	294.9	860.17	23.49	297.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23000	5250.5	723	15.75	293.2	833.31	23.58	292.1	934.18	32.17	294.9	1035.04	41.93	294.85	-	-	-	-	-	-	-	-	-	-	-	-
28000	6391.9	850	25.61	292.7	943.81	34.72	293.2	1031.49	44.55	292.1	1112.06	54.71	292.05	1198.59	66.53	294.9	1277.89	78.41	294.9	-	-	-	-	-	-
34000	7761.6	1008	42.61	292.7	1086.12	53.25	293.2	1161.05	64.53	293.2	1233.63	76.48	292.05	1302.64	88.83	292.1	1369.11	101.60	294.9	1440.71	116.03	294.9	-	-	-
40000	9131.3	1168	66.30	292.7	1234.25	78.34	292.7	1301.7	91.47	293.2	1364.48	104.75	293.17	1425.96	118.61	292.1	1486.89	133.13	292.1	-	-	-	-	-	-
46000	10501.0	1330	97.85	292.7	1389.33	111.70	292.7	1446.59	125.98	293.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50000	11414.1	1439	123.84	292.7	1494.1	138.09	292.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELMV-44			Nozzle Outlet Area = 6.026 ft ²												MAX Speed = 1500 RPM										
		1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
23000	3817.0	646	11.19	262.5	760.51	18.26	258.1	866.58	26.32	252.9	970.59	35.52	253.2	-	-	-	-	-	-	-	-	-	-	-	-
28000	4646.8	750	17.54	262.5	854.09	25.96	258.1	943.09	34.75	252.9	1031.61	44.66	252.9	1114.77	55.07	253.2	1200.93	66.81	253.2	-	-	-	-	-	-
34000	5642.5	879	28.21	256.1	972.35	38.26	262.5	1053.34	48.69	258.1	1125.92	59.26	258.1	1200.46	71.06	252.9	1270.31	83.09	252.0	1337.59	95.54	253.2	-	-	-
40000	6638.2	1009	42.76	256.1	1096.1	54.76	262.5	1169.39	66.55	262.5	1237.65	78.97	258.1	1300.34	91.41	258.1	1362.01	104.50	252.9	1425.07	118.65	252.0	-	-	-
46000	7634.0	1142	61.96	256.1	1223.27	76.00	262.5	1291.07	95.55	262.5	1353.43	103.19	258.1	1412.88	117.50	258.1	1468.52	131.81	258.1	-	-	-	-	-	-
50000	8297.8	1230	77.70	256.1	1309.56	93.14	262.5	1374	107.87	262.5	1433.51	122.61	262.5	1489.89	137.73	258.1	-	-	-	-	-	-	-	-	-
55000	9127.6	1343	101.02	256.1	1417.11	118.10	256.1	1479.35	134.50	262.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

1. Performance certified is for installation Type C: Ducted inlet, free outlet.
2. Power rating (BHP) does not include transmission losses.
3. Performance ratings do not include the effects of appurtenances (accessories).
4. Performance ratings do not include the effects of crosswinds.

SKYPLUME G1-ELHV-49			Nozzle Outlet Area = 5.311 ft ²															MAX Speed =1300 RPM							
		1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
20000	3765.7	505	9.00	293.2	636.2	16.78	294.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25000	4707.1	590	14.47	293.2	697.79	23.23	292.1	801.47	33.44	294.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30000	5648.5	678	22.09	293.2	772.53	32.16	292.1	859.1	43.05	292.1	947.3	55.58	294.85	1027.96	68.60	297.0	-	-	-	-	-	-	-	-	-
35000	6590.0	771	32.52	292.7	854.47	43.90	293.2	932.6	56.13	292.1	1004.82	68.84	292.05	1081.44	83.45	295.9	1152.64	98.30	294.9	1220.67	114.15	297.0	-	-	-
41000	7719.7	885	49.21	292.7	957.69	62.12	293.2	1025.92	75.73	293.2	1092.95	90.34	292.05	1155.5	105.23	292.1	1218.78	121.31	294.9	1283.37	138.71	294.9	-	-	-
47000	8849.4	1001	71.17	292.7	1063.81	85.40	293.2	1127.27	101.01	293.2	1185.13	116.61	293.17	1244.2	133.50	292.1	1299.87	150.57	292.1	-	-	-	-	-	-
53000	9979.1	1119	99.17	292.7	1175.11	115.13	292.7	1231.31	132.09	293.2	1285.8	149.69	293.17	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELMV-49			Nozzle Outlet Area = 7.306 ft ²															MAX Speed = 1300 RPM							
		1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
25000	3422.1	529	10.51	262.5	643.37	18.62	252.9	749.2	28.08	25.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30000	4106.5	603	15.57	262.5	704.27	24.74	258.1	795.87	35.00	253.0	883.3	46.35	253.2	969.79	58.94	253.2	-	-	-	-	-	-	-	-	-
35000	4790.9	680	22.24	262.5	772.76	32.74	258.1	851.86	43.66	252.9	931.29	56.04	252.9	1004.67	68.84	253.2	1082.08	83.52	253.2	1153.24	98.21	253.2	-	-	-
41000	5612.2	774	32.74	256.1	858.41	44.83	262.5	932.25	57.47	258.1	998.43	70.28	252.9	1067.32	84.79	252.9	1130.39	99.29	252.9	1194.93	115.81	253.2	1281.64	138.12	253.2
47000	6433.5	868	46.26	256.1	947.63	60.29	262.5	1015.78	74.33	258.1	1078.46	88.94	258.1	1135.81	103.56	258.1	1196.38	119.98	252.9	1253.62	136.60	252.9	-	-	-
53000	7254.8	963	63.36	256.1	1039.04	79.38	262.5	1102.54	95.00	262.5	1161.37	111.13	258.1	1216.35	127.61	258.1	1267.62	144.09	258.1	-	-	-	-	-	-
60000	8212.9	1076	88.43	256.1	1147.9	106.87	262.5	1206.95	124.55	262.5	1261.32	142.23	262.5	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELHV-54			Nozzle Outlet Area = 6.510 ft ²															MAX Speed = 1200 RPM							
		1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
31000	4761.6	551	18.67	293.2	647.52	29.47	292.1	739.39	41.89	297.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37000	5683.2	632	28.30	292.7	716.13	40.61	292.1	794.49	54.04	292.1	872.44	69.15	294.85	944.99	84.85	294.9	-	-	-	-	-	-	-	-	-
43000	6604.8	717	41.40	292.7	792.03	55.32	293.2	861.9	70.23	292.1	927.37	85.84	292.05	994.84	103.32	294.9	1059.63	121.57	294.9	1120.58	140.46	297.0	-	-	-
49000	7526.4	804	58.33	292.7	870.57	73.77	293.2	932.98	90.03	293.2	994.6	107.54	292.05	1051.61	125.33	292.1	1109.97	144.71	294.9	1168.64	165.51	294.9	-	-	-
59000	9062.4	951	96.50	292.7	1006.1	114.26	292.7	1061.87	133.68	293.2	1113.55	153.26	293.17	1164.51	173.83	292.1	-	-	-	-	-	-	-	-	-
69000	10598.4	1100	149.26	292.7	1148.77	170.03	292.7	1195.17	191.35	293.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75000	11520.0	1190	188.94	292.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELMV-54			Nozzle Outlet Area = 8.950 ft ²															MAX Speed =1200 RPM							
		1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
31000	3463.7	494	1.49	262.5	595.29	23.40	252.9	688.79	34.83	253.2	779.46	47.84	253.2	-	-	-	-	-	-	-	-	-	-	-	-
37000	4134.1	562	19.85	262.5	652.5	31.13	258.1	734.27	43.62	252.9	811.15	57.17	253.2	889.94	72.70	253.2	-	-	-	-	-	-	-	-	-
43000	4804.5	632	28.20	262.5	715.3	41.05	258.1	786.69	54.42	258.1	857.77	69.45	252.9	922.18	84.66	252.9	992.42	102.63	253.2	1057.27	120.68	253.2	-	-	-
49000	5474.9	703	38.84	256.1	780.51	53.29	262.5	848.07	68.40	258.1	908.88	83.79	252.9	971.8	101.13	252.9	1029.4	118.46	252.9	1088.99	137.65	253.2	1168.13	165.06	262.2
59000	6592.2	823	62.31	256.1	893.93	79.99	262.5	954.33	97.40	258.1	1010.52	115.75	258.1	1062.08	134.10	258.1	1113.38	153.60	252.9	1165.17	174.49	252.9	-	-	-
69000	7709.5	944	4.41	256.1	1010.93	115.49	262.5	1066.25	135.82	262.5	1117.06	156.21	258.1	1165.63	177.67	258.1	-	-	-	-	-	-	-	-	-
80000	8938.6	1080	141.45	256.1	1141.8	166.29	256.1	1193.1	190.04	262.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELHV-60			Nozzle Outlet Area = 7.963 ft ²															MAX Speed =1100 RPM							
		1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.		
Fan Inlet CFM	Nozzle outlet velocity FPM	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
36000	4520.8	479	20.33	293.2	569.7	33.00	292.1	656.7	47.86	294.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42000	5274.7	538	28.93	293.2	619.63	43.22	292.1	694.03	58.84	294.9	768.79	76.67	294.85	-	-	-	-	-	-	-	-	-	-	-	-
48000	6027.7	600	40.10	292.7	672.65	55.87	293.2	740.85	73.05	292.1	805.95	91.58	294.85	871.09	111.95	294.9	931.54	133.18	297.0	-	-	-	-	-	-
56000	7032.4	685	59.62	292.7	748.81	77.53	293.2	808.29	96.43	292.1	866.37	116.76	292.05	920.9	137.72	294.9	979.01	161.48	294.9	1032.79	185.25	294.9	-	-	-
64000	8037.0	771	85.06	292.7	827.19	104.89	293.2	881.73	126.14	293.2	933.54	148.21	292.05	984.21	171.44	292.1	1031.14	194.68	294.1	1082.2	221.09	294.9	-	-	-
72000	9041.6	858	117.27	292.7	907.91	138.95	292.7	958.46	162.66	293.2	1005.24	186.87	293.17	1051.46	211.70	292.1	1096.79	237.84	292.1	-	-	-	-	-	-
80000	10046.2	946	157.10	292.7	991.96	181.19	292.7	1037	206.52	293.2	1081	233.08	293.2	-	-	-	-	-	-	-	-	-	-	-	-

- NOTES:**
1. Performance certified is for installation Type C: Ducted inlet, free outlet.
 2. Power rating (BHP) does not include transmission losses.
 3. Performance ratings do not include the effects of appurtenances (accessories).
 4. Performance ratings do not include the effects of crosswinds.

SKYPLUME G1-ELMV-60			Nozzle Outlet Area = 10.954 ft ²															MAX Speed =1100 RPM							
Fan Inlet CFM	Nozzle outlet velocity FPM	1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.		
		RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
42000	3834.2	480	20.55	262.5	565.44	33.46	258.1	643.86	48.14	252.9	720.58	64.86	253.2	-	-	-	-	-	-	-	-	-	-	-	-
48000	4381.9	531	27.79	252.5	610.93	42.32	258.1	681.04	57.99	252.9	747.4	74.97	252.9	815.35	94.35	253.2	879.44	114.49	253.2	-	-	-	-	-	-
56000	5112.2	601.12	40.16	262.5	673.72	56.73	262.5	736.8	74.14	258.1	796.8	92.80	252.9	584.42	112.63	252.9	910.77	133.73	253.2	969.16	157.23	253.2	-	-	-
64000	5842.5	671	55.98	256.1	739.35	74.95	262.5	798.24	94.42	258.1	851.43	114.33	258.1	904.1	135.79	252.9	955.58	158.43	252.9	1003.41	181.06	252.9	1072.07	215.70	253.2
72000	6572.8	742	75.75	256.1	806.1	97.32	262.5	861.51	118.58	258.1	912.37	140.97	258.1	959.03	163.37	258.1	1005.6	187.24	252.9	1052.45	212.70	252.9	-	-	-
80000	7303.1	814	100.06	256.1	875.67	124.29	262.5	927.26	147.86	262.5	974.95	171.98	258.1	1019.83	196.86	258.1	1061.75	221.74	258.1	-	-	-	-	-	-
88000	8033.5	886	129.31	256.1	945.66	156.35	262.5	994.43	182.28	262.5	1039.33	208.21	262.5	1082.11	235.20	258.1	-	-	-	-	-	-	-	-	-

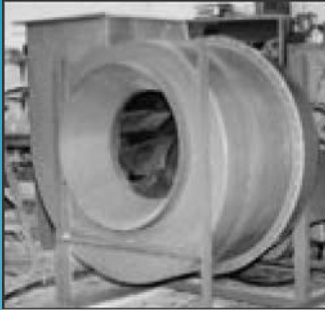
SKYPLUME G1-ELHV-66			Nozzle Outlet Area = 9.636 ft ²															MAX Speed =1000 RPM							
Fan Inlet CFM	Nozzle outlet velocity FPM	1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.		
		RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
48000	4981.3	468	30.64	293.2	545.46	47.20	292.1	617.63	65.82	294.9	686.25	86.34	297.02	-	-	-	-	-	-	-	-	-	-	-	-
56000	5811.5	529	44.28	292.7	596.94	62.78	293.2	660.64	83.05	292.1	722.9	105.45	294.85	782.38	129.22	294.9	-	-	-	-	-	-	-	-	-
64000	6641.7	592	62.17	292.7	653.58	82.86	293.2	710.72	105.00	292.1	764.45	128.23	292.05	817.4	154.08	284.9	872.62	181.25	294.9	922.49	209.14	297.0	-	-	-
72000	7417.9	657	84.68	292.7	711.72	107.40	293.2	763.21	131.30	293.2	814.11	157.12	292.05	861.18	183.27	292.1	909.88	212.07	294.9	958.4	242.63	294.9	-	-	-
80000	8302.1	722	112.39	292.7	771.12	136.94	293.2	819.87	163.51	293.2	864.15	190.55	292.05	910.73	219.60	292.1	953.01	248.64	292.1	995.92	279.73	294.9	-	-	-
90000	9339.9	804	155.23	292.7	847.99	183.32	292.7	832.38	211.64	293.2	934.23	241.52	293.17	974.39	272.17	292.1	-	-	-	-	-	-	-	-	-
100000	10377.6	887	208.23	292.7	927.27	238.33	292.7	966.46	269.55	293.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SKYPLUME G1-ELMV-66			Nozzle Outlet Area = 13.254 ft ²															MAX Speed =1000 RPM							
Fan Inlet CFM	Nozzle outlet velocity FPM	1" S.P.			2.5" S.P.			4" S.P.			5.5" S.P.			7" S.P.			8.5" S.P.			10" S.P.			12" S.P.		
		RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)	RPM	BHP	E.R. (%)
56000	4225.1	470	30.91	262.5	543.41	47.95	258.1	609.33	66.61	252.9	670.43	86.55	253.2	735.12	110.05	253.2	-	-	-	-	-	-	-	-	-
64000	4828.7	522	42.30	262.5	590.06	61.41	258.1	648.62	81.32	258.1	706.72	103.59	252.9	159.61	126.23	252.9	816.79	152.76	253.2	870.08	179.62	253.2	-	-	-
72000	5432.3	575	46.46	256.1	638.31	77.68	262.5	694.06	99.92	258.1	744.55	122.70	252.9	796.35	148.16	252.9	843.75	176.63	252.9	893.56	253.20	253.2	958.63	242.53	253.2
80000	6035.8	627	73.57	26.1	688.22	97.34	262.5	740.73	121.50	258.1	788.52	146.38	258.1	834.09	172.27	252.9	880.61	200.56	252.9	923.86	228.86	252.9	982.19	269.69	253.2
90000	6790.3	694	99.80	256.1	751.97	126.86	262.5	800.8	153.38	262.5	846.2	181.16	258.1	888.14	209.15	258.1	927.96	237.65	252.9	970.28	269.49	253.0	-	-	-
100000	7544.8	762	132.05	256.1	816.99	162.50	262.5	863.02	191.97	262.5	905.42	221.76	258.1	945.69	252.86	258.1	983.37	283.96	258.1	-	-	-	-	-	-
110000	8299.3	830	170.97	256.1	883.05	204.94	262.5	926.5	237.36	262.5	966.62	269.77	262.5	-	-	-	-	-	-	-	-	-	-	-	-

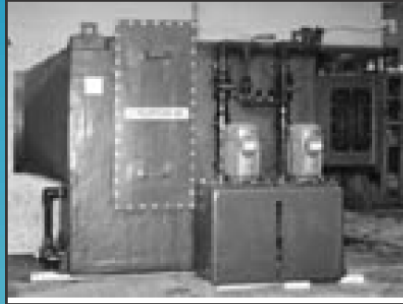
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Plasticair Inc., Servicing Industry



FRP Fans



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Laboratory Fumehoods

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