



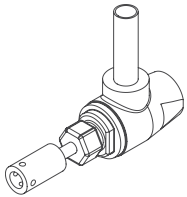
## Hamilton Fume Hood Accessories Catalog

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**Common features:**

- Fixture has forged brass valve body, black washer and color-coded outlet to match index button
- Parts exposed in fume hood have acid- and solvent-resistant epoxy finish, color-coded to match index button (unless otherwise noted)
- Goosenecks and outlets have removable serrated hose tip
- Shipped loose for field installation only
- All standard valves are CSA approved

**Remote Control Service Valves**



- Single service remote control valve
- Max. working pressure is 80 PSI
- Valves with stem for use with outlet, with hose connector

Service	Product No.
Cold water with stem	32L20000
Distilled water with stem	32L20001

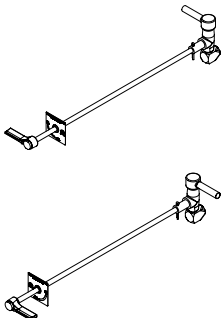
- Single service remote control valve
- Max. working pressure is 125 PSI
- Valves for oxygen and nitrogen are cleaned for pure gas service

Service	Product No.
Gas, air, vacuum with stem	32L20200
Oxygen, nitrogen with stem	32L20001

- Single service remote control valve
- Max. working pressure is 20 PSI

Service	Product No.
Steam with stem	32L20400

**Remote Control Ball Valve Assembly\***

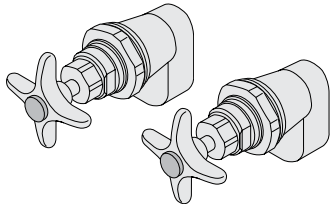


- Remote control service valve is factory assembled, includes guide plate, rod and handle
- Forged brass, chrome-plated lever handle. For other handle finishes, add suffix "FH"
- Colored plastic index disc
- Max. working pressure is 75 PSI
- Suitable for water and gas services

Service	Product No.
Right	32L20600
Left	32L20700

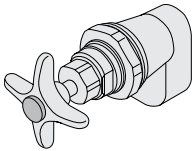
\* These products cannot be used for steam

Front-loaded Service Valves



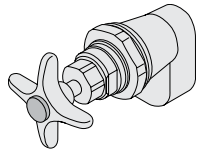
- Two front-loaded service valves for hot and cold water mixing
- Forged brass four-arm handle with clear epoxy-coated chrome
- Colored plastic index disc
- Max. working pressure is 80 PSI
- Requires 1-1/4" (32mm) diameter hole in panel

Service	Product No.
Hot and cold water	32L26300



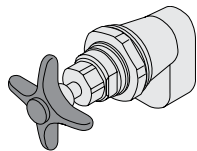
- Front-loaded single service valve
- Forged brass four-arm handle with clear epoxy-coated chrome
- Colored plastic index disc
- Max. working pressure is 80 PSI
- Requires 1-1/4" (32mm) diameter hole in panel

Service	Product No.
Hot or cold water	32L26400
Distilled water	32L26500



- Front-loaded single service valve
- Forged brass four-arm handle with clear epoxy-coated chrome
- Colored plastic index disc
- Max. working pressure is 125 PSI
- Requires 1-1/4" (32mm) diameter hole in panel

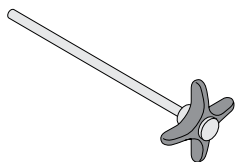
Service	Product No.
Gas, air, vacuum	32L26600
Oxygen, nitrogen	32L26800



- Front-loaded single service valve
- Four-arm heat resistant black handle
- Black plastic index disc
- Max. working pressure is 20 PSI
- Requires 1-1/4" (32mm) diameter hole in panel

Service	Product No.
Steam	32L26700

Rod and Handle Assembly for Service Valves



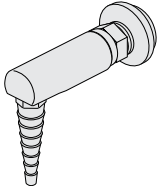
- Rod and handle assembly for remote control service valve
- Black 3/8" (10mm) diameter aluminum rod
- Black nylon four-arm handle with color-coded index button
- Requires field cut to fit

Service	Product No.
7-9/16"	32L24500
11-1/2"	32L24600
31-5/16"	32L24700

**Common features:**

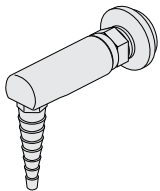
- Fixture has forged brass valve body, black washer and color-coded outlet to match index button
- Parts exposed in fume hood have acid- and solvent-resistant epoxy finish, color-coded to match index button (unless otherwise noted)
- Goosenecks and outlets have removable serrated hose tip
- Goosenecks have 6" (152mm) spread (unless otherwise noted)
- Shipped loose for field installation only
- All standard valves are CSA approved

**Outlet with Hose Connector**



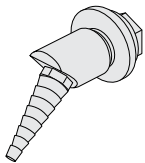
- Powdercoated brass turret and removable hose connector positioned at 90°
- Turret supplied with locknut, ferrule and compression fitting for 3/8" copper tubing
- 1/2" I.D. compression inlet
- For use with remote control service valves with stems

Service	Product No.
Hot water	32L25500
Cold water	32L25300



- Powdercoated brass turret and removable ten-serration hose connector positioned at 90°
- Tin-lined connector and turret
- Turret supplied with locknut, ferrule and compression fitting for 3/8" copper tubing
- 1/2" I.D. compression inlet

Service	Product No.
Distilled water	32L25400



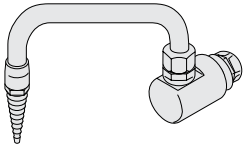
- Powdercoated brass turret and removable hose connector positioned at a 45° angle
- Turret supplied with locknut, ferrule and compression nut
- 1/2" I.D. compression inlet

Service	Product No.
Generic (color: black)	32L24800
Air	32L24900
Vacuum	32L25000
Gas	32L25100
Nitrogen (cleaned for pure gas service)	32L25200
Oxygen (cleaned for pure gas service)	32L25600

**Common features:**

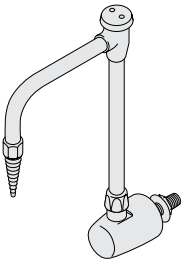
- Fixture has forged brass valve body, black washer and color-coded outlet to match index button
- Parts exposed in fume hood have acid- and solvent-resistant epoxy finish, color-coded to match index button (unless otherwise noted)
- Goosenecks and outlets have removable serrated hose tip
- Goosenecks have 6" (152mm) spread (unless otherwise noted)
- Shipped loose for field installation only
- All standard valves are CSA approved

**Gooseneck Outlets**



- Low profile gooseneck with turret and removable hose end
- Turret supplied with locknut, ferrule and compression nut
- 1/2" I.D. compression inlet
- Rigid/swing adapter
- Color: green

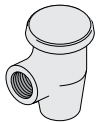
Service	Product No.
4" (102mm) spread gooseneck	32L26900
6" (152mm) spread gooseneck	32L27000



- Gooseneck with vacuum breaker, turret and removable hose end
  - Vandal resistant turret supplied with locknut
  - 3/8" NPS inlet
- \* Vacuum breaker is not recommended inside fume hood per NFPA

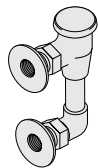
Service	Product No.
6" (152mm) spread gooseneck	32L27100

**Vacuum Breakers for Fume Hood**



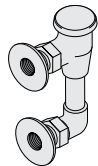
- Brass vacuum breaker with no finish
- For use with hidden applications
- 3/8" IPS female inlet and outlet

Product No.
32L27400



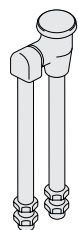
- Brass vacuum breaker assembly with polished chrome finish
- Union connection
- 1/2" IPS female inlet and outlet
- Not for use on Concept, Pioneer, or Horizon fume hoods

Product No.
32L27500



- Brass vacuum breaker assembly with polished chrome finish
- Union connection
- 3/8" IPS female inlet and outlet
- Not for use on Concept, Pioneer, or Horizon fume hoods

Product No.
32L28100



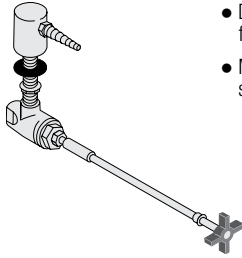
- Brass vacuum breaker assembly with polished chrome finish
- To be used with Concept, Pioneer, or Horizon fume hoods
- Chrome-plated locknuts
- 3/8" IPS female inlet and outlet

Product No.
32L27600

**Common features:**

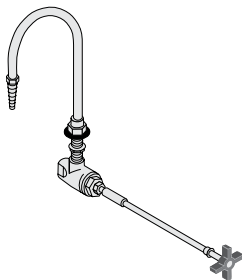
- Fixture has forged brass valve body, black washer and color-coded outlet to match index button
- Parts exposed in fume hood have acid- and solvent-resistant epoxy finish, color-coded to match index button (unless otherwise noted)
- Goosenecks and outlets have removable serrated hose tip
- Goosenecks have 6" (152mm) spread (unless otherwise noted)
- Shipped loose for field installation only
- All standard valves are CSA approved

**Remote Control Deck-mounted Service Fixtures**



- Deck-mounted single-service valve for air, gases or vacuum
- Mounting hardware for 1-1/4" (32mm) work surface

Service	Top Depth	Mount Location	Product No.
Gas	36" (914mm)	Wood base cabinet	30L567G0
Air	36" (914mm)	Wood base cabinet	30L567A0
Vacuum	36" (914mm)	Wood base cabinet	30L567V0
Gas	30" (762mm)	Table frame, wood/steel	30L568G0
Air	30" (762mm)	Table frame, wood/steel	30L568A0
Vacuum	30" (762mm)	Table frame, wood/steel	30L568V0
Gas	36" (914mm)	Table frame, wood/steel	30L569G0
Air	36" (914mm)	Table frame, wood/steel	30L569A0
Vacuum	36" (914mm)	Table frame, wood/steel	30L569V0
Gas	30" (762mm)	Steel base cabinet	30L570G0
Air	30" (762mm)	Steel base cabinet	30L570A0
Vacuum	30" (762mm)	Steel base cabinet	30L570V0
Gas	36" (914mm)	Steel base cabinet	30L571G0
Air	36" (914mm)	Steel base cabinet	30L571A0
Vacuum	36" (914mm)	Steel base cabinet	30L571V0
Gas	30" (762mm)	Wood base cabinet	30L572G0
Air	30" (762mm)	Wood base cabinet	30L572A0
Vacuum	30" (762mm)	Wood base cabinet	30L572V0



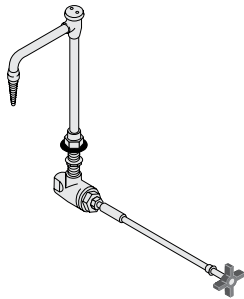
- Single-service gooseneck
- Washer and lock nut for deck mounting on 1-1/4" (32mm) work surface
- For use with cupsink installed front or rear
- "H0" suffix indicates hot water
- "C0" suffix indicates cold water

Top Depth	Mount Location	Product No.
36" (914mm)	Wood base cabinet	32L617H0
36" (914mm)	Wood base cabinet	32L617C0
30" (762mm)	Table frame, wood/steel	32L618H0
30" (762mm)	Table frame, wood/steel	32L618C0
36" (914mm)	Table frame, wood/steel	32L619H0
36" (914mm)	Table frame, wood/steel	32L619C0
30" (762mm)	Steel base cabinet	32L620H0
30" (762mm)	Steel base cabinet	32L620C0
36" (914mm)	Wood base cabinet	32L621H0
36" (914mm)	Wood base cabinet	32L621C0
30" (762mm)	Wood base cabinet	32L627H0
30" (762mm)	Wood base cabinet	32L627C0

**Common features:**

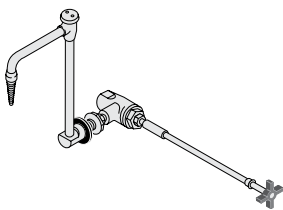
- Fixture has forged brass valve body, black washer and color-coded outlet to match index button
- Parts exposed in fume hood have acid- and solvent-resistant epoxy finish, color-coded to match index button (unless otherwise noted)
- Goosenecks and outlets have removable serrated hose tip
- Goosenecks have 6" (152mm) spread (unless otherwise noted)
- Shipped loose for field installation only
- All standard valves are CSA approved

**Remote Control Deck-mounted Service Fixtures (continued)**



- Single-service gooseneck with vacuum breaker
  - Washer and lock nut for deck mounting on 1-1/4" (32mm) work surface
  - For use with cupsink installed front or rear
  - H0 suffix indicates hot water
  - C0 suffix indicates cold water
- \* Vacuum breaker is not recommended inside fume hood per NFPA

Top Depth	Mount Location	Product No.
36" (914mm)	Wood base cabinet	32L622H0
36" (914mm)	Wood base cabinet	32L622C0
30" (762mm)	Table frame, wood/steel	32L623H0
30" (762mm)	Table frame, wood/steel	32L623C0
36" (914mm)	Table frame, wood/steel	32L624H0
36" (914mm)	Table frame, wood/steel	32L624C0
30" (762mm)	Steel base cabinet	32L625H0
30" (762mm)	Steel base cabinet	32L6250
36" (914mm)	Steel base cabinet	32L626H0
36" (914mm)	Steel base cabinet	32L626C0
30" (762mm)	Wood base cabinet	32L628H0
30" (762mm)	Wood base cabinet	32L628C0



- Single-service color-coded gooseneck
- For use with cupsink installed front or rear
- Sidewall mounted
- Add HW (hot water) or CW (cold water) to end of Product Number for service required
- Extended lead time

Product No.
CA32L552



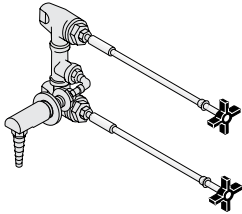
**Common features:**

- Fixture has forged brass valve body, black washer and color-coded outlet to match index button
- Parts exposed in fume hood have acid- and solvent-resistant epoxy finish, color-coded to match index button (unless otherwise noted)
- Black nylon four-arm handle with nylon color-coded index button
- Removable serrated tip

**Installation requirements:**

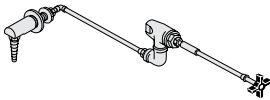
- Requires 1" (25.4mm) mounting hole on interior end panels
- Requires 9/16" (14.3mm) mounting hole at front posts

**Remote Control Water Faucets**



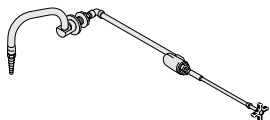
- General mixing faucet
- Turret base with serrated hose end
- Flat mounting flange for wall mount
- For use with front-mounted cupsink
- "WA" suffix indicates front fixtures

Fume Hood Type	Fixture Location	Product No.
Auxiliary Air	Front	32L564WA
Bypass, VAV, Radioisotope	Front	32L565WA
Bypass, VAV Floor-mounted	Front	32L567WA
Auxiliary Air Floor-mounted	Front	32L568WA



- Single-service water valve
- Turret base with serrated hose end
- Flat mounting flange for wall mount
- For working pressure up to 80 PSI
- For use with rear mounted cupsink

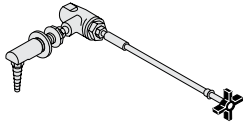
Service	Fume Hood Type	Fixture Location	Product No.
Cold water	Auxiliary Air	Rear	32L595CW
Hot water	Auxiliary Air	Rear	32L595HW
Cold water	Bypass, VAV, Radioisotope	Rear	32L596CW
Hot water	Bypass, VAV, Radioisotope	Rear	32L596HW



- Single-service color-coded gooseneck with 4" (102mm) spread
- Sidewall mounted
- For cold water service
- For use with rear mounted cupsink

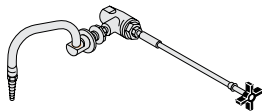
Fume Hood Type	Product No.
Auxiliary Air Bench/High-line	32L692CW
Constant Volume/Restricted Bypass Bench/High-line	32L693CW

Remote Control Water Faucets (continued)



- Single-service water valve
- Turret base with serrated hose end
- Flat mounting flange for wall mount
- For working pressure up to 80 PSI
- For use with cupsink installed at front
- Distilled water fixtures are tin-lined

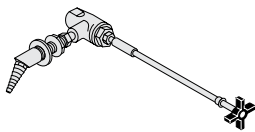
Service	Fume Hood Type	Fixture Location	Product No.
Cold Water	Auxiliary Air	Front	32L551CW
Hot Water	Auxiliary Air	Front	32L551HW
Distilled Water	Auxiliary Air	Front	32L576DW
Steam	Auxiliary Air	Front	32L62900
Cold Water	Bypass, VAV, Radioisotope	Front	32L552CW
Hot Water	Bypass, VAV, Radioisotope	Front	32L552HW
Distilled Water	Bypass, VAV, Radioisotope	Front	32L577DW
Steam	Bypass, VAV, Radioisotope	Front	32L63000
Cold Water	Bypass, VAV Floor-mounted	Front	32L554CW
Hot Water	Bypass, VAV Floor-mounted	Front	32L554HW
Distilled Water	Bypass, VAV Floor-mounted	Front	32L579DW
Steam	Bypass, VAV Floor-mounted	Front	32L63100
Cold Water	Auxiliary Air Floor-mounted	Front	32L555CW
Hot Water	Auxiliary Air Floor-mounted	Front	32L555HW
Distilled Water	Auxiliary Air Floor-mounted	Front	32L580DW
Steam	Auxiliary Air Floor-mounted	Front	32L63200



- Single-service color-coded gooseneck with 4" (102mm) spread
- Sidewall mounted
- For cold water service
- For use with front mounted cupsink

Fume Hood Type	Product No.
Auxiliary Air Bench/High-line	32L688CW
Constant Volume/Restricted Bypass Bench/High-line	32L689CW
Constant Volume/Restricted Bypass Floor-mounted	32L690CW
Auxiliary Air Floor-mounted	32L691CW

Remote Control Water Faucets (continued)



- Panel-mounted single-service valve for air, gases or vacuum
- Color-coded outlet to match index button, with black washer

Service	Fume Hood Type	Product No.
Gas	Auxiliary Air	30L496GW
Air	Auxiliary Air	30L496AW
Vacuum	Auxiliary Air	30L496VW
Nitrogen	Auxiliary Air	30L57300
Oxygen	Auxiliary Air	30L57700
Gas	Bypass & R.B., Radioisotope	30L497GW
Air	Bypass & R.B., Radioisotope	30L497AW
Vacuum	Bypass & R.B., Radioisotope	30L497VW
Nitrogen	Bypass & R.B., Radioisotope	30L57400
Oxygen	Bypass & R.B., Radioisotope	30L57800
Gas	Bypass & R.B. Floor-mounted	30L499GW
Air	Bypass & R.B. Floor-mounted	30L499AW
Vacuum	Bypass & R.B. Floor-mounted	30L499VW
Nitrogen	Bypass & R.B. Floor-mounted	30L57500
Oxygen	Bypass & R.B. Floor-mounted	30L57900
Gas	Auxiliary Air Floor-mounted	30L500GW
Air	Auxiliary Air Floor-mounted	30L500AW
Vacuum	Auxiliary Air Floor-mounted	30L500VW
Nitrogen	Auxiliary Air Floor-mounted	30L57600
Oxygen	Auxiliary Air Floor-mounted	30L58000

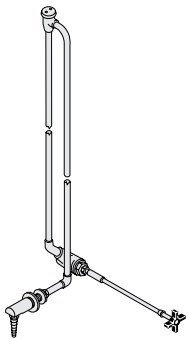
**Common features:**

- Fixture has forged brass valve body, black washer and color-coded outlet to match index button
- Parts exposed in fume hood have acid- and solvent-resistant epoxy finish, color-coded to match index button (unless otherwise noted)
- Black nylon four-arm handle with nylon color-coded index button
- Removable serrated tip
- Can be installed on right or left side
- For use with cupsink installed front or rear

**Installation requirements:**

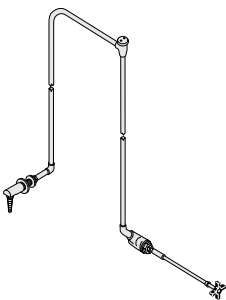
- Requires 1" (25.4mm) mounting hole on interior end panels
- Requires 9/16" (14.3mm) mounting hole at front posts

**Remote Control Water Faucets with Vacuum Breakers**



- Single-service assembly
- Vacuum breaker

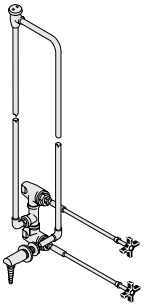
Fume Hood Type	Fixture Location	Product No.
Auxiliary Air	Front	32L675CW
Bypass, Restricted Bypass, Radioisotope	Front	32L676CW
Bypass, Restricted Bypass, Floor-mounted	Front	32L677CW
Auxiliary Air, Floor-mounted	Front	32L678CW



- Single-service assembly
- Vacuum breaker

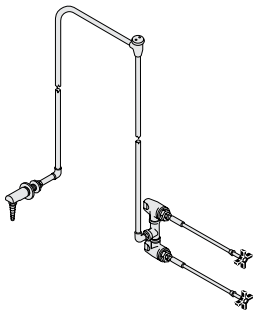
Fume Hood Type	Fixture Location	Product No.
Auxiliary Air	Rear	32L663CW
Bypass, Restricted Bypass, Radioisotope	Rear	32L664CW
Bypass, Restricted Bypass	Rear	32L665CW
Perchloric Acid	Rear	32L616CW

Remote Control Water Faucets with Vacuum Breakers (continued)



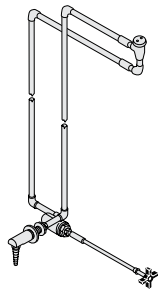
- Assembly for hot and cold water
- Vacuum breaker

Fume Hood Type	Fixture Location	Product No.
Auxiliary Air	Front	32L66800
Bypass, Restricted Bypass, Radioisotope	Front	32L66900
Auxiliary Air, Floor-mounted	Front	32L67000



- Assembly for hot and cold water
- Vacuum breaker

Fume Hood Type	Fixture Location	Product No.
Auxiliary Air	Rear	32L67100
Bypass, Restricted Bypass, Radioisotope	Rear	32L67200



- Single-service assembly
- Top-mount front vacuum breaker
- Vacuum breaker is exposed
- Not for use on Concept or Pioneer

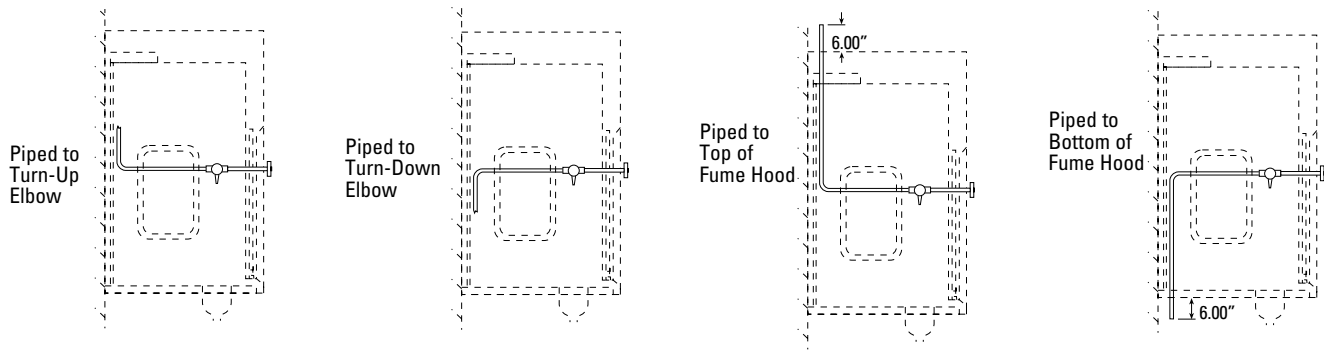
Fixture Location	Product No.
Front	32L657CW

**Product information:**

- For fume hoods that are pre-piped to the bottom of the fume hood, pipes are pivoted upward for shipment and installation above the fume hood's work-surface. Prior to making final hookups, disconnect the pipes at the valves, point them down and reinstall
- All piping configurations listed comply with the following national plumbing codes:  
 SPC – Standard Plumbing Code  
 NPC – National Plumbing Code  
 UPC – Uniform Plumbing Code  
 NSPC – National Standard Plumbing Code
- All copper pipe is Type "L" copper. Copper pipe joints are either soldered with 95/5 solder or are mechanically attached with compression fittings
- Front-loaded service fixtures are not available in standard pre-piped configurations
- Verify compliance with all state and local codes prior to ordering
- Products on this page cannot be shipped loose
- Requires 9/16" (14.3mm) remote control or 1-1/4" (31.8mm) front-loaded mounting holes at front posts

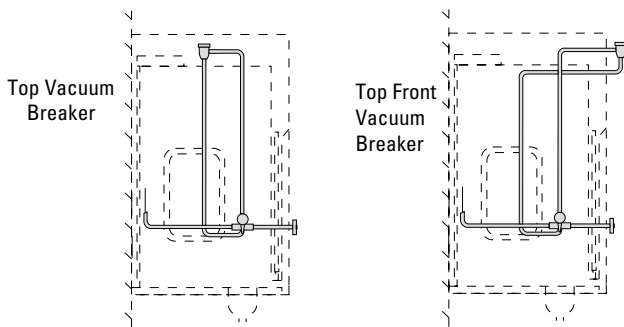
**Standard Configurations**

The following four pre-piping configurations are available with standard list pricing and standard lead-times.



**Vacuum Breaker Configurations**

Pre-piped cold water fixtures are available with vacuum breakers in two configurations. State and local codes will dictate the version that should be used in your location.



Product Numbers – Standard Pre-piped Fixture Configurations

Pipe Size/Material	Fixture Type	To Up Elbow	To Down Elbow	Piped Up	Piped Down
		Product No.	Product No.	Product No.	Product No.
3/8" Copper	CW Front	32L80200	32L80000	32L80800	32L80600
3/8" Copper	HW Front	32L80300	32L80100	32L80900	32L80700
3/8" Black Iron	Steam Front	32L80500	32L80400	32L81100	32L81000
3/8" Copper	CW Rear	32L81400	32L81300	32L81600	–
3/8" Copper	CW Front w/ Top VB	32L81700	32L81900	32L81700	32L843CW
3/8" Copper	CW Rear w/ Top VB	32L81800	32L82000	32L81800	–
3/8" Copper	H & CW Front	32L82600	32L82500	32L82800	32L82700
3/8" Copper	H & CW Rear	32L83000	32L82900	32L83200	–
3/8" Copper	CW Rear w/ Top Front VB	32L91500	32L91900	–	–
3/8" Copper	CW Front w/ Top Front VB	32L91600	32L92000	–	–
3/8" Copper	H & CW Rear w/ Top VB	32L84600	32L84500	32L84800	–
3/8" Copper	H & CW Front w/ Top VB	32L85000	32L84900	32L85200	32L85100
3/8" Copper	Air Front	30L80000	30L80500	30L81000	30L81500
3/8" Copper	Vacuum Front	30L80100	30L80600	30L81100	30L81600
3/8" Copper	Nitrogen Front	30L80200	30L80700	30L81200	30L81700
3/8" Copper	Oxygen Front	30L80300	30L80800	30L81300	30L81800
3/8" Black Iron w/ Coupling	Gas Front	30L82100	30L82000	30L82200	30L82300

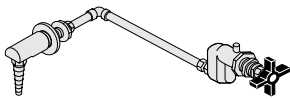
**Common features:**

- Fixture has forged brass valve body and outlet
- Straight front panel mounting only
- Valve is chrome-plated
- Valve seat can be replaced from the front of fixture
- Valve handle is clear epoxy-plated with nylon color-coded index button
- Outlets in fume hood have acid- and solvent-resistant color-coded finish to match index button, with black washer
- Removable serrated tip
- Pressure varies with fixture:
  - Water 80 PSI
  - Needle Valve 125 PSI
  - Steam Valve 20 PSI
- Index buttons are included with fixtures

**Installation requirements:**

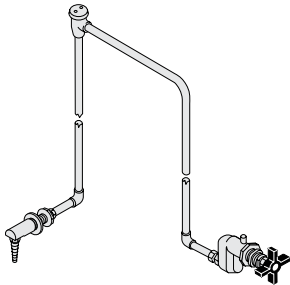
- Requires 1" (25mm) mounting hole at interior end panels
- Requires 1-1/4" (32mm) mounting hole at front posts

**Front-loaded Water Faucets**



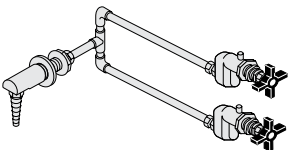
- Single-service valve
- Turret base with serrated hose end
- Without vacuum breaker
- Tin-lined model for distilled water
- For use with cupsink at front or rear

Service	Product No.
Cold water	32L645CW
Hot water	32L645HW
Distilled water	32L64800



- Single-service valve with vacuum breaker
- Turret base with serrated hose end
- For use with cupsink at front or rear

Service	Product No.
Cold water	32L647CW
Hot water	32L647HW

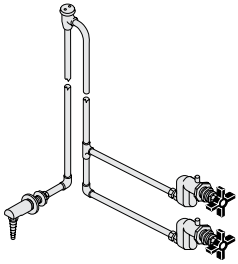


- General mixing faucet, hot and cold water
- Turret base with serrated hose end
- Without vacuum breaker
- For use with cupsink at front or rear

Product No.
32L64600

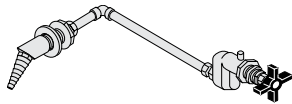


Front-loaded Water Faucets



- General mixing faucet, hot and cold water with vacuum breaker
- Turret base with serrated hose end
- For use with cupsink at front or rear

Product No.
32L64900



- Needle valve service for gases, air and vacuum
- Flat mounting flange with angle serrated hose end

Service	Product No.
Gas	30L589GW
Air	30L589AW
Vacuum	30L589VW
Nitrogen	30L589NW
Oxygen	30L589OW

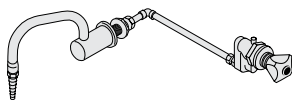
**Common features of front loaded ColorTec valves:**

- Fixture has brass valve body with white hybrid epoxy/polyester blend finish.
- Color-coded (per media) plastic hooded handle and plastic index button.
- Color-coded (per media) removable serrated hose end with internal shank.
- Shank washer finished in black powdercoat.

**Installation requirements**

- Shipped loose – for field installation only.
- Requires 1" (25mm) mounting hole at interior end panels.
- Requires 1-1/4" (32mm) mounting hole at front posts

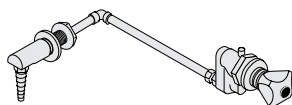
Front-loaded ColorTech Water Faucets



- Panel-mount turret base with 4" (102mm) rigid gooseneck
- For straight front fume hood
- Serrated hose end and internal shank
- For use with cupsink installed front or rear

Service	Product No.
Cold water	28L152CW
Hot water	28L152HW*

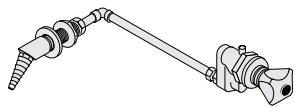
\* Available on extended lead time.



- Single-service water valve
- For straight front fume hood
- Serrated hose end and internal shank

Service	Product No.
Cold water	28L151CW
Hot water	28L151HW*

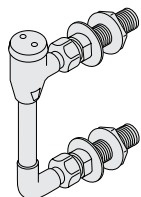
Front-loaded Service Valves



- Single-service valve
- For straight front fume hood
- Panel-mount 45° angle outlet fitting
- Serrated hose end and internal shank
- Oxygen and nitrogen valves are cleaned for pure gas service

Service	Product No.
Air	27L161A0
Gas	27L161G0
Vacuum	27L161V0
Oxygen	27L16200
Nitrogen	27L16300

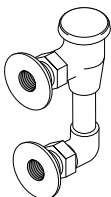
Atmospheric Vacuum Breaker



- 3/8" (10mm) IPS laboratory vacuum breaker with white powdercoat finish
- Panel-mounted
- 3/8" (10mm) IPS mounting shank with locknut and washer
- Not for use on Concept/Pioneer or Horizon fume hood

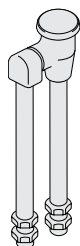
Product No.
28L02700*

\* Available on extended lead time.



- Brass vacuum breaker assembly with white powdercoat finish
- For use with concealed piping
- Union connection
- 3/8" IPS female inlet and outlet
- Not for use on Concept/Pioneer or Horizon fume hoods

Product No.
32L27700



- Brass vacuum breaker assembly with white finish
- To be used with Concept, Pioneer and Horizon fume hoods
- White finished locknuts
- 3/8" IPS female inlet and outlet

Product No.
32L2800

**Air Flow Alarm Monitor – AFA500**



- Continuously monitors flow based on internal fume hood pressure and has field adjustable set points that will activate the alarm signal
- Operations manual is provided
- Features:
  - Low air alarm relay output
  - Simplified push-button calibration
  - Relay input for night setrear to mute audible alarm

**Specifications:**

Alarm range: 30-400 fpm (.15-2.0 m/s)  
 Field setup: One-point velocity calibration  
 Accuracy: +or – 10%  
 Airflow sensor: On-board  
 Low air alarm delay: fixed five seconds  
 Relay: Output – 1  
       Input – 2, night setrear & sash high  
 Analog Output: Not available  
 Sash High Indication: Yes, using a micro or proximity switch input.  
 With repeat alarm feature factory set to 5 minutes (Can be adjusted via laptop up to 30 minutes)  
 Night Setrear: Yes, using a relay input  
 External Alarm Indication: Not available  
 Power: Input 120VAC, 60Hz  
       Output 15VDC, 500ma  
 Display, visual: Red LED – Alarm  
                     Green LED – Normal  
 Alarm Indication: Red LED and audible  
 Horn Silence: Yes, temporary  
 Mounting: Semi-flush  
 Operating Temperature: 55-86°F, 13-30°C  
 Dimensions: 5.2”H x 3-1/2”W x 2”D (132 x 81 x 51mm)  
 Agency Listing: UL and CE

**Factory Installed (Pre-wired)**

Fume Hood Use	Product No.
Mistral and SafeAire II, 3’ and 4’	54LFAFA0500S4
Mistral and SafeAire II, 5’	54LFAFA0500S5
Mistral and SafeAire II, 6’	54LFAFA0500S6
Mistral and SafeAire II, 8’	54LFAFA0500S8
Concept, 4’	54LFAFA0500C4
Concept, 5’	54LFAFA0500C5
Concept, 6’	54LFAFA0500C6
Concept, 7’	54LFAFA0500C7
Concept, 8’	54LFAFA0500C8
Demonstration	54LFAFA0500D0
10’ postless sash fume hood	54LFAFA0500S1
12’ postless sash fume hood	54LFAFA0500S3
Pioneer, all widths	54LFAFA0500P

**Field Installed (Cartoned)**

Fume Hood Use	Product No.
Mistral, SafeAire II, Concept and Pioneer	54LFAFA0500SC
Demonstration	54LFAFA0500HC

**Air Flow Alarm Monitor – AFA1000**



- Continuously monitors flow based on internal fume hood pressure and has field adjustable set points that will activate the alarm signal
- Operations manual is provided
- Features:
  - Digital display of face velocity
  - LED alarm indicators
  - Push-button calibration and configuration
  - One programmable output relays
  - Three configurable inputs
  - Com ports for local or network connection

**Specifications:**

Display/Alarm range: 0-999 fpm (0-5.0 m/s)  
 Field Setup: Two-point velocity calibration, with on-screen instructions  
 Accuracy: Sensor/display resolution 1 fpm. Face velocity +or – 10%  
 Alarm Delays: 0-60 sec.  
 Relay: Output – 1, Input – 3  
 Analog Output: Not available  
 Sash High Indication: Yes, with separate plug-in connection  
 Night Setrear: Yes  
 External Alarm Indication: Yes  
 Power: Input 120VAC, 60Hz, Output 15VDC, 500ma  
 Units: English and metric, user selective  
 Display, visual: Analog bar graph or fault timeline  
     Red LED – Alarm  
     Yellow LED – Caution  
     Green LED – Normal  
     Digital display of velocity reading can be turned off  
 Alarm Indication: Red LED and audible  
 Horn Silence: Yes, temporary  
 Airflow sensor: Remote  
 Low air alarm delay: fixed five seconds  
 Mounting: Semi-flush  
 Operating Temperature: 55-86°F, 13-30°C  
 Dimensions: 5.2”H x 3.2”W x 2”D (132 x 81 x 51mm)  
 Agency Listing: UL and CE

**Factory Installed (Pre-wired)**

Fume Hood Use	Product No.
Mistral and SafeAire II, 3’ and 4’	54LAF1000S4
Mistral and SafeAire II, 5’	54LAF1000S5
Mistral and SafeAire II, 6’	54LAF1000S6
Mistral and SafeAire II, 8’	54LAF1000S8
Concept and Pioneer, 4’	54LAF1000C4
Concept and Pioneer, 5’	54LAF1000C5
Concept and Pioneer, 6’	54LAF1000C6
Concept and Pioneer, 7’	54LAF1000C7
Concept and Pioneer, 8’	54LAF1000C8
Demonstration	54LAF1000D0
10’ postless sash fume hood	54LAF1000S1
12’ postless sash fume hood	54LAF1000S3
Pioneer, all widths	54LAF1000P
Advantage, all widths	54LAF1000A0

**Field Installed (Cartoned)**

Fume Hood Use	Product No.
Mistral, SafeAire II, Concept and Pioneer	54LAF1000SC
Demonstration	54LAF1000HC
Advantage	54LAF1000AC

- Proper selection of work surface material is critical for optimum fume hood performance

	Epoxy Resin	Stainless Steel
Chemical-resistant	S	G
Heat-resistance	S	G
Stain-resistance	G	G
Moisture-resistance	E	S
Impact-resistance	E	S
Abrasion-resistance	G	E
Cleanability	G	E
Sanitation	P	E
Spill Containment	G	G
Maintenance Cost	Low	Low
Smoke Toxicity	Low	Low
Disposal Impact	Low	Low

S = Superior E = Excellent G = Good F = Fair P = Poor  
 Detailed chemical resistance test data is available upon request.

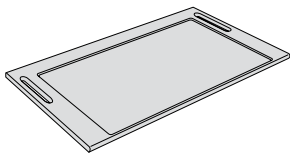
**Common features:**

- Black epoxy resin work surface
- Cupsink cutouts sized for product number 34L13200 polyolefin cupsinks. Special cutouts must be specified if alternate cupsinks are selected
- 1-1/4" (32mm) thick

**Ordering information:**

- Cupsinks and other service fixtures must be ordered separately

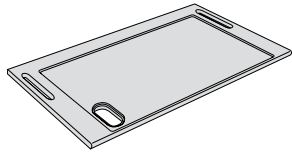
**Epoxy Resin for Concept, Mistral and SafeAire II Fume Hoods**



**No Cupsink Cutouts**

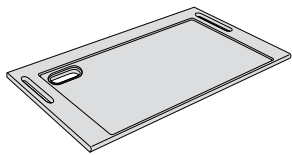
Width	Work Surface Depth			
	26-1/8" (663mm) 54L – Fume Hood	30-7/8" (784mm) 60L – Fume Hood	32-1/8" (815mm) 61L – Fume Hood	38-1/8" (968mm) 62L – Fume Hood
36" (914mm)	21L3626000	21L3631000	–	–
48" (1219mm)	21L4826000	21L4831000	21L4832000	21L4838000
60" (1524mm)	21L6026000	21L6031000	21L6032000	21L6038000
72" (1829mm)	21L7226000	21L7231000	21L7232000	21L7238000
84" (2134mm)	21L8426000	–	21L8432000	21L8438000
96" (2438mm)	21L9626000	21L9631000	21L9632000	21L9638000

Epoxy Resin for Concept, Mistral and SafeAir II Fume Hoods (continued)



Left Front Cupsink Cutout

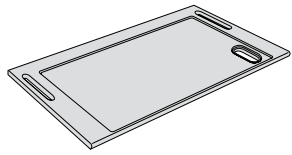
Width	Work Surface Depth			
	26-1/8" (663mm) 54L – Fume Hood	30-7/8" (784mm) 60L – Fume Hood	32-1/8" (815mm) 61L – Fume Hood	38-1/8" (968mm) 62L – Fume Hood
36" (914mm)	21L36261LF	21L36311LF	–	–
48" (1219mm)	21L48261LF	21L48311LF	21L48321LF	21L48381LF
60" (1524mm)	21L60261LF	21L60311LF	21L60321LF	21L60381LF
72" (1829mm)	21L72261LF	21L72311LF	21L72321LF	21L72381LF
84" (2134mm)	21L84261LF	–	21L84321LF	21L84381LF
96" (2438mm)	21L96261LF	21L96311LF	21L96321LF	21L96381LF



Left Rear Cupsink Cutout

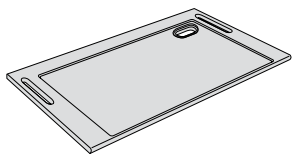
Width	Work Surface Depth			
	26-1/8" (663mm) 54L – Fume Hood*	30-7/8" (784mm) 60L – Fume Hood	32-1/8" (815mm) 61L – Fume Hood	38-1/8" (968mm) 62L – Fume Hood
36" (914mm)	21L36261LR	21L36311LR	–	–
48" (1219mm)	21L48261LR	21L48311LR	21L48321LR	21L48381LR
60" (1524mm)	21L60261LR	21L60311LR	21L60321LR	21L60381LR
72" (1829mm)	21L72261LR	21L72311LR	21L72321LR	21L72381LR
84" (2134mm)	21L84261LR	–	21L84321LR	21L84381LR
96" (2438mm)	21L96261LR	21L96311LR	21L96321LR	21L96381LR

\*Rear mounted cupsink requires use of a sink base cabinet.



Right Front Cupsink Cutout

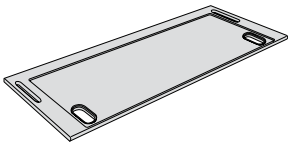
Width	Work Surface Depth			
	26-1/8" (663mm) 54L – Fume Hood	30-7/8" (784mm) 60L – Fume Hood	32-1/8" (815mm) 61L – Fume Hood	38-1/8" (968mm) 62L – Fume Hood
36" (914mm)	21L36261RF	21L36311RF	–	–
48" (1219mm)	21L48261RF	21L48311RF	21L48321RF	21L48381RF
60" (1524mm)	21L60261RF	21L60311RF	21L60321RF	21L60381RF
72" (1829mm)	21L72261RF	21L72311RF	21L72321RF	21L72381RF
84" (2134mm)	21L84261RF	–	21L84321RF	21L84381RF
96" (2438mm)	21L96261RF	21L96311RF	21L96321RF	21L96381RF



Right Rear Cupsink Cutout

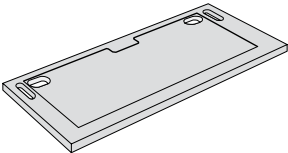
Width	Work Surface Depth			
	26-1/8" (663mm) 54L – Fume Hood	30-7/8" (784mm) 60L – Fume Hood	32-1/8" (815mm) 61L – Fume Hood	38-1/8" (968mm) 62L – Fume Hood
36" (914mm)	21L36261RR	21L36311RR	–	–
48" (1219mm)	21L48261RR	21L48311RR	21L48321RR	21L48381RR
60" (1524mm)	21L60261RR	21L60311RR	21L60321RR	21L60381RR
72" (1829mm)	21L72261RR	21L72311RR	21L72321RR	21L72381RR
84" (2134mm)	21L84261RR	–	21L84321RR	21L84381RR
96" (2438mm)	21L96261RR	21L96311RR	21L96321RR	21L96381RR

Epoxy Resin for Concept, Mistral and SafeAire II Fume Hoods (continued)



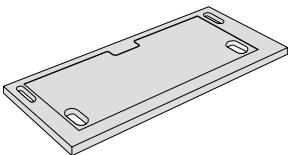
Two Front Cupsink Cutouts

Width	Work Surface Depth			
	26-1/8" (663mm) 54L – Fume Hood	30-7/8" (784mm) 60L – Fume Hood	32-1/8" (815mm) 61L – Fume Hood	38-1/8" (968mm) 62L – Fume Hood
96" (2438mm)	21L96262BF	21L96312BF	21L96322BF	21L96382BF



Rear Right and Left Cupsink Cutouts

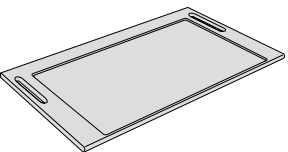
Width	Work Surface Depth
	26-1/8" (663mm) 54L – Fume Hood
120" (3048mm)	21L120262BR
144" (3658mm)	21L144262BR



Front Right and Left Cupsink Cutouts

Width	Work Surface Depth
	26-1/8" (663mm) 54L – Fume Hood
120" (3048mm)	21L120262BF
144" (3658mm)	21L144262BF

Epoxy Resin for Pioneer



- 37-1/4" Depth Only

Add the following suffix letters to product numbers at left for cupsink cutout requirements:

- 000 = No cupsink cutouts
- 1LF = Left Front
- 1RF = Right Front
- 2BF = Both Front Sides (96" width only)
- 1LR = Left Rear
- 1RR = Right Rear

Width	Product No.
48" (1219mm)	21L4830__
60" (1524mm)	21L6030__
72" (1829mm)	21L7230__
84" (2134mm)	21L8430__
96" (2438mm)	21L9630__

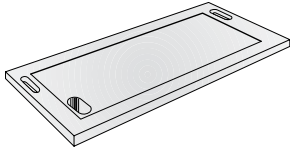
**Common features:**

- Stainless steel work surfaces are No. 304 stainless steel with smooth satin finish
- 1-1/4" (32mm) thick

**Ordering information:**

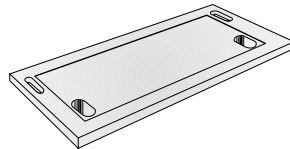
- Integral cupsinks included, other service fixtures must be ordered separately
- Special cutouts must be specified if alternate cupsinks are selected

**Stainless Steel for only SafeAire II Fume Hood**



- Front left cupsink
- 26-1/8" deep

Width	Product No.
36" (914mm)	21L36261LFSS
48" (1219mm)	21L48261LFSS
60" (1524mm)	21L60261LFSS
72" (1829mm)	21L72261LFSS



- Front right and left cupsink
- 26-1/8" deep

Width	Product No.
96" (2438mm)	21L96261LFSS

**Common features:**

- Work surface for use with Horizon fume hood assemblies
- Cupsink cutouts sized for product number 34L13200 polyolefin cupsinks. Special cutouts must be specified if alternate cupsinks are selected
- 1-1/4" (32mm) thick

**Ordering information:**

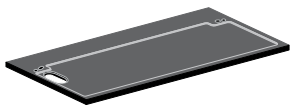
- Cupsinks and other service fixtures must be ordered separately
- Horizon fume hood assemblies include a standard black epoxy resin work surface

**Molded Black Resin for only Horizon Superstructures**



- Two cupsinks
- 26-15/16" deep

Width	Product No.
48" (1219mm)	20L258BB
60" (1524mm)	20L259BB
72" (1829mm)	20L260BB

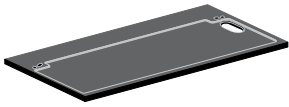


- Left cupsink
- 26-15/16" deep

Width	Product No.
48" (1219mm)	20L258BL
60" (1524mm)	20L259BL
72" (1829mm)	20L260BL

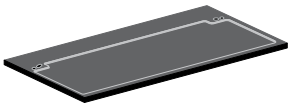


**Molded Black Resin for only Horizon Superstructures (continued)**



- Right cupsink
- 26-15/16" deep

Width	Product No.
48" (1219mm)	20L258BR
60" (1524mm)	20L259BR
72" (1829mm)	20L260BR



- No cupsinks
- 26-15/16" deep

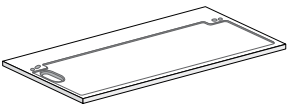
Width	Product No.
48" (1219mm)	20L258BN
60" (1524mm)	20L259BN
72" (1829mm)	20L260BN

**Molded White Resin for only Horizon Superstructures**



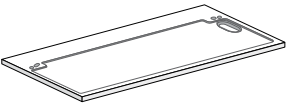
- Two cupsinks
- 26-15/16" deep

Width	Product No.
48" (1219mm)	20L258WB
60" (1524mm)	20L259WB
72" (1829mm)	20L260WB



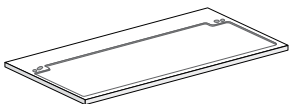
- Left cupsink
- 26-15/16" deep

Width	Product No.
48" (1219mm)	20L258WL
60" (1524mm)	20L259WL
72" (1829mm)	20L260WL



- Right cupsink
- 26-15/16" deep

Width	Product No.
48" (1219mm)	20L258WR
60" (1524mm)	20L259WR
72" (1829mm)	20L260WR



- No cupsinks
- 26-15/16" deep

Width	Product No.
48" (1219mm)	20L258WN
60" (1524mm)	20L259WN
72" (1829mm)	20L260WN

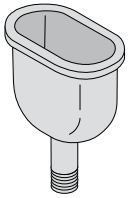
**For use with:**

- Work surfaces with cupsink cutouts

**Ordering information:**

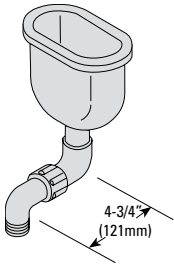
- Adapters to connect cupsink to plumbing must be ordered separately
- Coordinate selection of plumbing fixtures, sink outlet material, trap material and building acid waste system

**Polyolefin Oval Cupsinks**



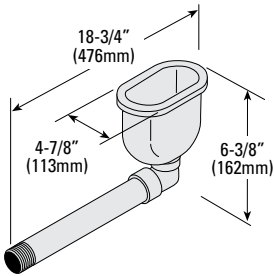
- 7-1/2" (191mm) x 4-1/2" (114mm) oval cupsink, 3" x 6" I.D.
- IPS outlet – 1-1/2" (38mm)
- Overall height – 8-3/16" (208mm)

Product No.
34L13200



- 7" (178mm) x 3-7/8" (99mm) oval panel-mounted cupsink with strainer
- Outlet – 1-1/2" (38mm)
- Overall height – 6-13/16" (173mm)

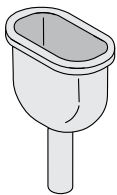
2 x 6 I.D.	Product No.
Cupsink only	34L19000
Cupsink with elbow	34L19400



- Shallow cupsink for restricted spaces, ideal for a fume hood installed above an acid or flammable storage cabinet
- Provides for front-mounted location above acid/flammable cabinet with flush front
- 6" (152mm) x 3" (76mm) inside dimension
- Outlet – 1-1/2" (38mm)

2 x 6 I.D.	Product No.
Shallow cupsink with elbow	34L13700

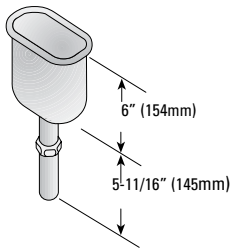
**Glass Oval Cupsinks**



- 4" (102mm) x 7" (178mm) oval cupsink
- Outlet I.D. – 1-1/2" (38mm)
- Overall height – 11" (279mm)

Product No.
34L36100

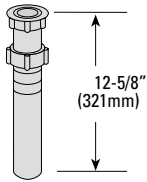
**Stainless Steel Oval Cupsinks**



- Oval cupsink with 1-1/2" (38mm) tailpiece
- Overall diameter – 7-5/8" (194mm) x 4-19/32" (117mm)
- Outlet – 1-1/2" (38mm)
- Overall height – 11-3/4" (298mm)
- Inside diameter – 3-23/32" (94mm) x 6- 3/4" (172mm)

Product No.
34L19100

**Polyolefin Tailpiece**



- 1-1/2" (38mm) Tailpiece assembly

Product No.
34L24500

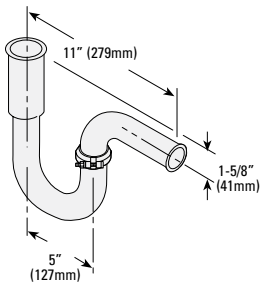
**Adapter Couplings**



- Adapts 2" (51mm) expanded inlet beaded-end trap to 1-1/2" (38mm) plain-end cupsink tailpiece
- Stainless steel outer band with rubber adapter and adapter seal

Tailpiece Outside Diameter	Product No.
1-1/2" (38mm)	34L26900
1-3/4" (44mm)	34L27000

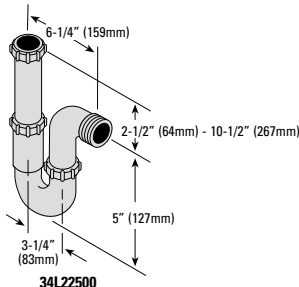
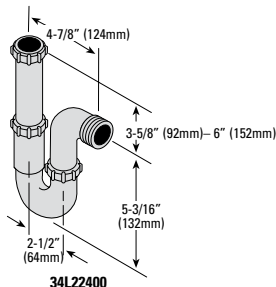
**Glass Swivel "P" Traps**



- "P" swivel trap
- Outlet I.D. – 1-1/2" (38mm)
- Inlet I.D. – 2" (51mm)
- Overall height – 8-3/4" (222mm)

Product No.
34L25700

**Polyolefin "P" Traps**

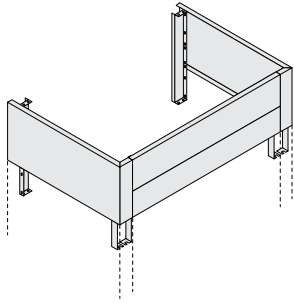


Inlet/Outlet	Product No.
1-1/2" (38mm)	34L22400
2" (51mm)	34L22500

**Product features:**

- Provides finished appearance between fume hood and ceiling.
- Conceals and protects fume hood ductwork, electrical conduit and vertical service supply lines.
- Finished to match superstructure.
- 12-1/2" (318mm) height can be cut down in field for ceilings as low as 8 feet.

**Enclosures for SafeAir II Bench and High-line Fume Hoods**



- Bench and high line only
- Use to enclose space between ceiling and top of fume hood superstructure
- Made of steel, finished to match fume hood superstructure
- Installation hardware included
- Lower front panel is removable for access to light fixture
- Add "S" to end of product number to designate for fume hood with stainless steel interior

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

**12-1/2" (318mm) High**

Width	Depth			
	31-1/4" (794mm)	36" (914mm)	37-1/4" (946mm)	43-1/4" (1099mm)
36" (914mm)	54L0361231	60L0361236	61L0361237	62L0361243
48" (1219mm)	54L0481231	60L0481236	61L0481237	62L0481243
60" (1524mm)	54L0601231	60L0481236	61L0601237	62L0601243
72" (1829mm)	54L0721231	60L0481236	61L0721237	62L0721243
96" (2438mm)	54L0961231	60L0481236	61L0961237	62L0961243

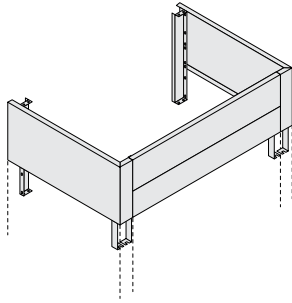
**17" (431mm) High**

Width	Depth			
	31-1/4" (794mm)	36" (914mm)	37-1/4" (946mm)	43-1/4" (1099mm)
36" (914mm)	54L0361731	60L0361736	61L0361737	62L0361743
48" (1219mm)	54L0481731	60L0481736	61L0481737	62L0481743
60" (1524mm)	54L0601731	60L0481736	61L0601737	62L0601743
72" (1829mm)	54L0721731	60L0481736	61L0721737	62L0721743
96" (2438mm)	54L0961731	60L0481736	61L0961737	62L0961743

**24-1/2" (622mm) High**

Width	Depth			
	31-1/4" (794mm)	36" (914mm)	37-1/4" (946mm)	43-1/4" (1099mm)
36" (914mm)	54L0362431	60L0362436	61L0362437	62L0362443
48" (1219mm)	54L0482431	60L0482436	61L0482437	62L0482443
60" (1524mm)	54L0602431	60L0482436	61L0602437	62L0602443
72" (1829mm)	54L0722431	60L0482436	61L0722437	62L0722443
96" (2438mm)	54L0962431	60L0482436	61L0962437	62L0962443

**Enclosures for SafeAire II Bench and High-line Fume Hoods (continued)**



- Bench and high line only
- Use to enclose space between ceiling and top of fume hood superstructure
- Made of steel, finished to match fume hood superstructure
- Installation hardware included
- Lower front panel is removable for access to light fixture
- Add "S" to end of product number to designate for fume hood with stainless steel interior

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

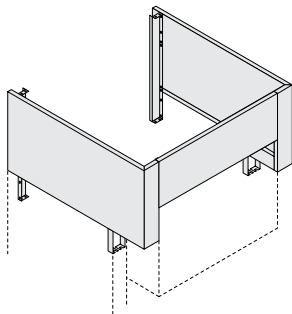
**29" (737mm) High**

Width	Depth			
	31-1/4" (794mm)	36" (914mm)	37-1/4" (946mm)	43-1/4" (1099mm)
36" (914mm)	54L0362931	60L0362936	61L0362937	62L0362943
48" (1219mm)	54L0482931	60L0482936	61L0482937	62L0482943
60" (1524mm)	54L0602931	60L0482936	61L0602937	62L0602943
72" (1829mm)	54L0722931	60L0482936	61L0722937	62L0722943
96" (2438mm)	54L0962931	60L0482936	61L0962937	62L0962943

**36-1/2" (927mm) High**

Width	Depth			
	31-1/4" (794mm)	36" (914mm)	37-1/4" (946mm)	43-1/4" (1099mm)
36" (914mm)	54L0363631	60L0363636	61L0363637	62L0363643
48" (1219mm)	54L0483631	60L0483636	61L0483637	62L0483643
60" (1524mm)	54L0603631	60L0483636	61L0603637	62L0603643
72" (1829mm)	54L0723631	60L0483636	61L0723637	62L0723643
96" (2438mm)	54L0963631	60L0483636	61L0963637	62L0963643

**Enclosures for SafeAire II Auxiliary Air Fume Hoods**



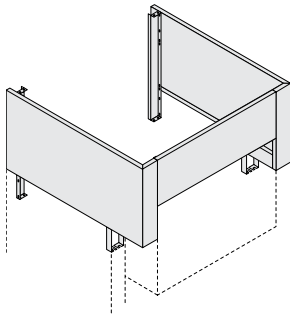
- Bench and high line only
- Use to enclose space between ceiling and top of fume hood superstructure
- Made of steel, finished to match fume hood superstructure
- Installation hardware included
- Add "S" to end of product number to designate for fume hood with stainless steel interior

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

**24-1/2" (622mm) High**

Width	Depth			
	33-3/16" (859mm)	38-5/8" (980mm)	39-3/16" (1011mm)	45-3/16" (1164mm)
48" (1219mm)	54L0482434	60L0482439	61L0482440	62L0482446
60" (1524mm)	54L0602434	60L0482439	61L0602440	62L0602446
72" (1829mm)	54L0722434	60L0482439	61L0722440	62L0722446
96" (2438mm)	54L0962434	60L0482439	61L0962440	62L0962446

**Enclosures for SafeAire II Auxiliary Air Fume Hoods (continued)**



- Bench and high line only
- Use to enclose space between ceiling and top of fume hood superstructure
- Made of steel, finished to match fume hood superstructure
- Installation hardware included
- Add "S" to end of product number to designate for fume hood with stainless steel interior

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

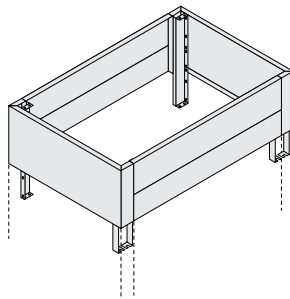
**29" (737mm) High**

Width	Depth			
	33-3/16" (859mm)	38-5/8" (980mm)	39-3/16" (1011mm)	45-3/16" (1164mm)
48" (1219mm)	54L0482934	60L0482939	61L0482940	62L0482946
60" (1524mm)	54L0602934	60L0482939	61L0602940	62L0602946
72" (1829mm)	54L0722934	60L0482939	61L0722940	62L0722946
96" (2438mm)	54L0962934	60L0482939	61L0962940	62L0962946

**36-1/2" (927mm) High**

Width	Depth			
	33-3/16" (859mm)	38-5/8" (980mm)	39-3/16" (1011mm)	45-3/16" (1164mm)
48" (1219mm)	54L0483634	60L0483639	61L0483640	62L0483646
60" (1524mm)	54L0603634	60L0483639	61L0603640	62L0603646
72" (1829mm)	54L0723634	60L0483639	61L0723640	62L0723646
96" (2438mm)	54L0963634	60L0483639	61L0963640	62L0963646

**Enclosures for Mistral and SafeAire II Demonstration Fume Hood**

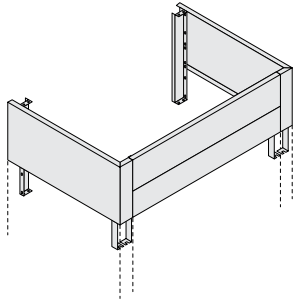


- Use to enclose space between ceiling and top of fume hood superstructure
- Made of steel, finished to match fume hood superstructure
- Installation hardware included
- Lower front panel is removable for access to light fixture
- 32-1/2" (826mm) depth

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

Height	Width		
	48" (1219mm)	60" (1524mm)	72" (1829mm)
12-1/2" (318mm)	54L0481233	54L0601233	54L0721233
24-1/2" (622mm)	54L0482433	54L0602433	54L0722433
36-1/2" (927mm)	54L0483633	54L0603633	54L0723633

**Enclosures for SafeAire II Floor-mounted Fume Hoods**



- Use to enclose space between ceiling and top of floor-mounted fume hoods
- Made of steel, finished to match fume hood superstructure
- Installation hardware included
- Add "S" to end of product number to designate for fume hood with stainless steel interior
- Lower front panel is removable for access to light fixture

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

**24-1/2" (622mm) High**

Width	Depth		
	32-3/8" (822mm)	38-3/8" (974mm)	44-3/8" (1126mm)
48" (1219mm)	554S0482432	551S0482438	552S0482444
60" (1524mm)	554S0602432	551S0482438	552S0602444
72" (1829mm)	554S0722432	551S0482438	552S0722444
96" (2438mm)	554S0962432	551S0482438	552S0962444

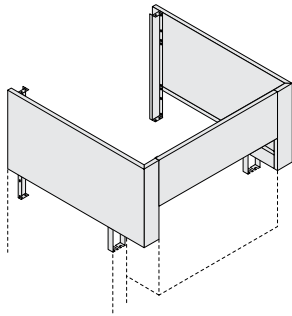
**29" (737mm) High**

Width	Depth		
	32-3/8" (822mm)	38-3/8" (974mm)	44-3/8" (1126mm)
48" (1219mm)	554S0482932	551S0482938	552S0482944
60" (1524mm)	554S0602932	551S0482938	552S0602944
72" (1829mm)	554S0722932	551S0482938	552S0722944
96" (2438mm)	554S0962932	551S0482938	552S0962944

**36-1/2" (927mm) High**

Width	Depth		
	32-3/8" (822mm)	38-3/8" (974mm)	44-3/8" (1126mm)
48" (1219mm)	554S0483632	551S0483638	552S0483644
60" (1524mm)	554S0603632	551S0483638	552S0603644
72" (1829mm)	554S0723632	551S0483638	552S0723644
96" (2438mm)	554S0963632	551S0483638	552S0963644

**Enclosures for SafeAire II Auxiliary Air Floor-mounted Fume Hoods**



- Use to enclose space between ceiling and top of floor-mounted fume hood
- Made of steel, finished to match fume hood superstructure
- Installation hardware included
- Add "S" to end of product number to designate for fume hood with stainless steel interior

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

**24-1/2" (622mm) High**

Width	Depth		
	34-15/16" (887mm)	40-15/16" (1040mm)	46-15/16" (1192mm)
48" (1219mm)	554S0482435	551S0482441	552S0482447
60" (1524mm)	554S0602435	551S0482441	552S0602447
72" (1829mm)	554S0722435	551S0482441	552S0722447
96" (2438mm)	554S0962435	551S0482441	552S0962447

**29" (737mm) High**

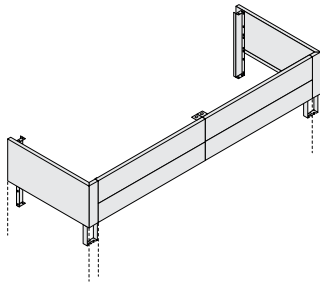
Width	Depth		
	34-15/16" (887mm)	40-15/16" (1040mm)	46-15/16" (1192mm)
48" (1219mm)	554S0482935	551S0482941	552S0482947
60" (1524mm)	554S0602935	551S0482941	552S0602947
72" (1829mm)	554S0722935	551S0482941	552S0722947
96" (2438mm)	554S0962935	551S0482941	552S0962947

**36-1/2" (927mm) High**

Width	Depth		
	34-15/16" (887mm)	40-15/16" (1040mm)	46-15/16" (1192mm)
48" (1219mm)	554S0483635	551S0483641	552S0483647
60" (1524mm)	554S0603635	551S0483641	552S0603647
72" (1829mm)	554S0723635	551S0483641	552S0723647
96" (2438mm)	554S0963635	551S0483641	552S0963647



**Enclosures for SafeAire II Postless Sash Fume Hoods**

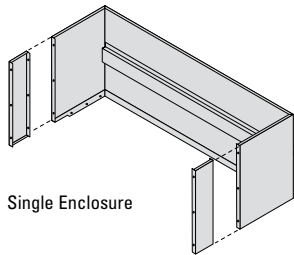


- Use to enclose space between ceiling and top of fume hood superstructure
- Made of steel, finished to match fume hood superstructure
- Installation hardware included
- Lower front panel is removable for access to light fixture
- 31-1/4" (794mm) depth

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

Height	Width	
	120" (3048mm)	144" (3658mm)
12-1/2" (318mm)	54L1201231	54L1441231
17" (432mm)	54L1201731	54L1441731
24-1/2" (622mm)	54L1202431	54L1442431
29" (737mm)	54L1202931	54L1442931
36-1/2" (927mm)	54L1203631	54L1443631

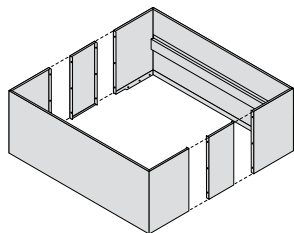
**Ceiling Enclosure Panels for Horizon**



Single Enclosure

- Use to enclose space between ceiling and top of fume hood superstructure
- All installation hardware provided
- Single ceiling enclosure panel is 23-1/2" (597mm) deep and double enclosure panel is 47" (1194mm) deep

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.



Double Enclosure

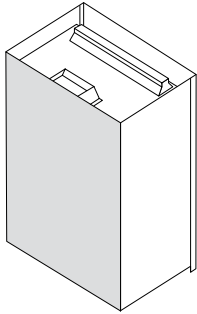
**Single Ceiling Enclosure**

Height	For Hood Width		
	48" (1219mm)	60" (1524mm)	72" (1829mm)
9-3/4" (248mm)	54L0481024	54L0601024	54L0721024
21-3/4" (553mm)	54L0482224	54L0602224	54L0722224

**Double Ceiling Enclosure**

Height	For Hood Width		
	48" (1219mm)	60" (1524mm)	72" (1829mm)
9-3/4" (248mm)	54L0481030	54L0601030	54L0721030
21-3/4" (553mm)	54L0482230	54L0602230	54L0722230

**SafeAire II Finished Backs**

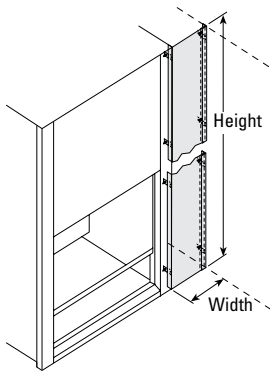


- Used to enclose rear of fume hood superstructure when exposed
- Made of steel, finished to match fume hood superstructure
- Installation hardware included
- These finished backs do not fit on fume hoods with stainless steel interiors; special detailing is required

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

Width	Fume Hood Type		
	Benchtop	High-line	Floor-mounted
36" (914mm)	90L19200	–	–
48" (1219mm)	90L19300	90L19700	90L20100
60" (1524mm)	90L19400	90L19800	90L20200
72" (1829mm)	90L19500	90L19900	90L20300
96" (2438mm)	90L19600	90L20000	90L20400

**Filler Assembly Mistral, SafeAire II, Concept and Pioneer**

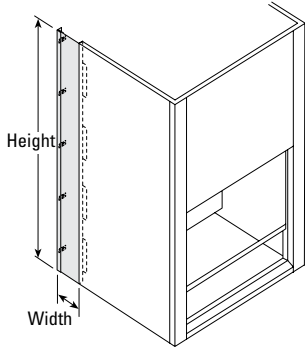


- Use to enclose space between wall and side of fume hood or space between rear of fume hood and wall
- Made of steel, finished to match fume hood superstructure
- Installation hardware included

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

Width	Height		
	For Standard Superstructure 54-1/4" (1378mm)	For High-line Superstructure 66-1/4" (1682mm)	For Floor-mounted Hood 90" (2286mm)
1" (25mm)	90L15000	90L15400	90L15800
2" (51mm)	90L15100	90L15500	90L15900
3" (76mm)	90L15200	90L15600	90L16000
6" (152mm)	90L15300	90L15700	90L16100

**Filler Assembly Mistral, SafeAir II, Concept and Pioneer**

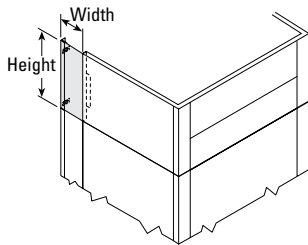


- Use to enclose space between wall and rear of fume hood superstructure or floor-mounted fume hood
- Made of steel, finished to match fume hood superstructure
- Installation hardware included

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

Width	Height		
	For Standard Superstructure 54-1/4" (1378mm)	For High-line Superstructure 66-1/4" (1682mm)	For Floor-mounted Hood 90" (2286mm)
1" (25mm)	90L150N0	90L154N0	90L158N0
2" (51mm)	90L151N0	90L155N0	90L159N0
3" (76mm)	90L152N0	90L156N0	90L160N0
6" (152mm)	90L153N0	90L157N0	90L161N0

**Ceiling Fillers Mistral, SafeAir II, Concept and Pioneer**



- Use to enclose space between wall and rear of ceiling enclosure
- Made of steel, finished to match fume hood superstructure
- Installation hardware included

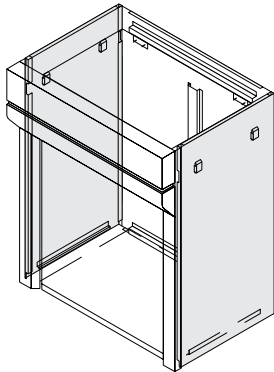
**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

Width	Height				
	12-1/2" (318mm)	17" (432mm)	24-1/2" (622mm)	29" (737mm)	36-1/2" (927mm)
1" (25mm)	90L138N0	90L130N0	90L139N0	90L134N0	90L140N0
2" (51mm)	90L141N0	90L131N0	90L142N0	90L135N0	90L143N0
3" (76mm)	90L144N0	90L132N0	90L145N0	90L136N0	90L146N0
6" (152mm)	90L147N0	90L133N0	90L148N0	90L137N0	90L149N0

**Product features:**

- Enclosure panels for front, sides and rear of Concept and Pioneer fume hood superstructures
- Encloses space between top of superstructure and ceiling
- Made of steel, finished to match fume hood superstructure
- Installation hardware included

**Side Enclosure Panels**

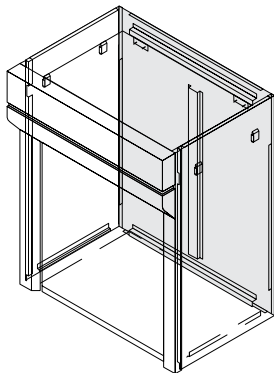


- Use to enclose one or both sides of Concept, Pioneer, Mistral, or SafeAire II fume hood superstructures
- Product number is for single panel

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

Hood Depth	Height		
	For Standard Superstructure	For High-line Superstructure	For Pass-thru Demonstration Hood
31-1/4" (794mm)	54L31530FHEP	54L31650FHEP	–
32" (813mm)	–	–	54L32530FHEP
36" (914mm)	54L36530FHEP	54L36650FHEP	–
37-1/4" (946mm)	54L37530FHEP	54L37650FHEP	–
43-1/4" (1099mm)	54L43530FHEP	54L43650FHEP	–

**Lower Back Enclosure Panels**



- Use to enclose back of Concept, Pioneer, or Mistral fume hood superstructures

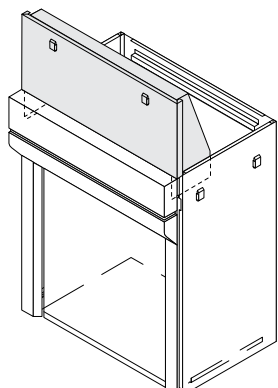
**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

Hood Width	Height	
	For Standard Superstructure	For High-line Superstructure
48" (1219mm)	54L48530LBEP	54L48550LBEP
60" (1524mm)	54L60530LBEP	54L60550LBEP
72" (1829mm)	54L72530LBEP	54L72550LBEP
84" (2134mm)	54L84530LBEP	54L84550LBEP
96" (2438mm)	54L96530LBEP	54L96550LBEP

**Product features:**

- Enclosure panels for front, sides and rear of Concept and Pioneer fume hood superstructures
- Encloses space between top of superstructure and ceiling
- Made of steel, finished to match fume hood superstructure
- Installation hardware included

**Front Ceiling and Sash Enclosure Panels for Concept**

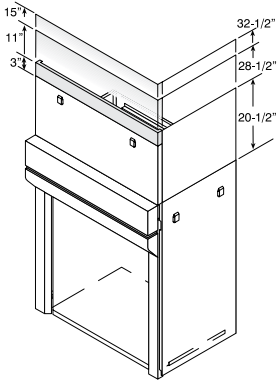


- Use to enclose space between front top and ceiling of Concept superstructure, also provides enclosure for raised sash
- Not for Concept Perchloric Acid fume hoods

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

Hood Width	Height			
	17-1/2" (445mm)	20-1/2" (521mm)	28-1/2" (724mm)	32-1/2" (826mm)
48" (1219mm)	54L48170FCSE	54L48200FCSE	54L48280FCSE	54L48320FCSE
60" (1524mm)	54L60170FCSE	54L60200FCSE	54L60280FCSE	54L60320FCSE
72" (1829mm)	54L72170FCSE	54L72200FCSE	54L72280FCSE	54L72320FCSE
84" (2134mm)	54L84170FCSE	54L84200FCSE	54L84280FCSE	54L84320FCSE
96" (2438mm)	54L96170FCSE	54L96200FCSE	54L96280FCSE	54L96320FCSE

**Front Ceiling Enclosure Panels for Pioneer**



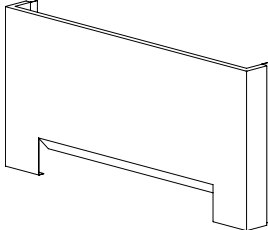
- Use to enclose space between front top ceiling/sash enclosure panel and room ceiling of Pioneer fume hood superstructure
- 17-1/2" high front ceiling and sash enclosure panel is standard on Pioneer fume hood having an unframed sash
- 20-1/2" high front ceiling panel is standard on combination sash fume hood

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

Hood Width	Panel Height		
	For use with 20-1/2" high side enclosure panels 3" (76mm)	For use with 28-1/2" high side enclosure panels 11" (279mm)	For use with 32-1/2" high side enclosure panels 15" (381mm)
48" (1219mm)	54L04803*	54L04811	54L04815
60" (1524mm)	54L06003*	54L06011	54L06015
72" (1829mm)	54L07203*	54L07211	54L07215
84" (2134mm)	54L08403*	54L08411	54L08415
96" (2438mm)	54L09603*	54L09611	54L09615

\* For use only on unframed sash hood.

**Front Ceiling Enclosure Panels for Mistral – Plain**



- Use to enclose space between front top ceiling/sash enclosure panel and room ceiling of Mistral fume hood superstructure

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

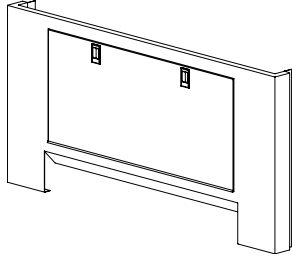
**Bench Fume Hood**

Hood Width	Height			
	17-1/2" (445mm)	20-1/2" (521mm)	28-1/2" (724mm)	32-1/2" (826mm)
36" (914mm)	54L336170FP	54L336200FP	54L336280FP	54L336320FP
48" (1219mm)	54L348170FP	54L348200FP	54L348280FP	54L348320FP
60" (1524mm)	54L360170FP	54L360200FP	54L360280FP	54L360320FP
72" (1829mm)	54L372170FP	54L372200FP	54L372280FP	54L372320FP
96" (2438mm)	54L396170FP	54L396200FP	54L396280FP	54L396320FP

**Floor-mounted Fume Hood**

Hood Width	Height			
	17-1/2" (445mm)	20-1/2" (521mm)	28-1/2" (724mm)	32-1/2" (826mm)
36" (914mm)	54L336175FP	54L336205FP	54L336285FP	54L336325FP
48" (1219mm)	54L348175FP	54L348205FP	54L348285FP	54L348325FP
60" (1524mm)	54L360175FP	54L360205FP	54L360285FP	54L360325FP
72" (1829mm)	54L372175FP	54L372205FP	54L372285FP	54L372325FP
96" (2438mm)	54L396175FP	54L396205FP	54L396285FP	54L396325FP

**Front Ceiling Enclosure Panels for Mistral – with Door**



- Use to enclose space between front top ceiling/sash enclosure panel and room ceiling of Mistral fume hood superstructure

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

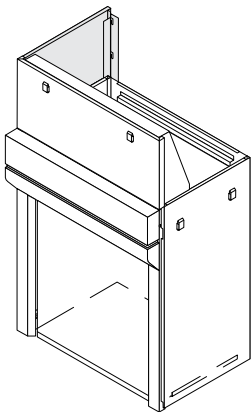
**Bench Fume Hood**

Hood Width	Height			
	17-1/2" (445mm)	20-1/2" (521mm)	28-1/2" (724mm)	32-1/2" (826mm)
36" (914mm)	54L336170FD	54L336200FD	54L336280FD	54L336320FD
48" (1219mm)	54L348170FD	54L348200FD	54L348280FD	54L348320FD
60" (1524mm)	54L360170FD	54L360200FD	54L360280FD	54L360320FD
72" (1829mm)	54L372170FD	54L372200FD	54L372280FD	54L372320FD
96" (2438mm)	54L396170FD	54L396200FD	54L396280FD	54L396320FD

**Floor-mounted Fume Hood**

Hood Width	Height			
	17-1/2" (445mm)	20-1/2" (521mm)	28-1/2" (724mm)	32-1/2" (826mm)
36" (914mm)	54L336175FD	54L336205FD	54L336285FD	54L336325FD
48" (1219mm)	54L348175FD	54L348205FD	54L348285FD	54L348325FD
60" (1524mm)	54L360175FD	54L360205FD	54L360285FD	54L360325FD
72" (1829mm)	54L372175FD	54L372205FD	54L372285FD	54L372325FD
96" (2438mm)	54L396175FD	54L396205FD	54L396285FD	54L396325FD

**Left Ceiling Enclosure Panels – Bench Fume Hoods**

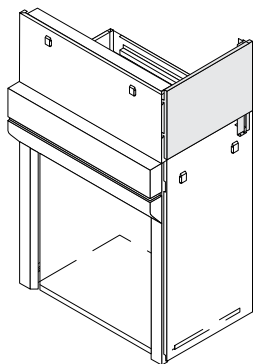


- Use to enclose space at left side of Concept, Pioneer and Mistral between lower left side panel and ceiling
- 17-1/2" high panel is limited to Pioneer fume hood having an unframed sash
- Requires front ceiling and sash enclosure panels

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

Hood Depth	Height			
	17-1/2" (445mm)	20-1/2" (521mm)	28-1/2" (724mm)	32-1/2" (826mm)
31-1/4" (794mm)	54L31170LCEP	54L31200LCEP	54L31280LCEP	54L31320LCEP
36" (914mm)	54L36170LCEP	54L36200LCEP	54L36280LCEP	54L36320LCEP
37-1/4" (946mm)	54L37170LCEP	54L37200LCEP	54L37280LCEP	54L37320LCEP
43-1/4" (1099mm)	54L43170LCEP	54L43200LCEP	54L43280LCEP	54L43320LCEP

**Right Ceiling Enclosure Panels – Bench Fume Hoods**

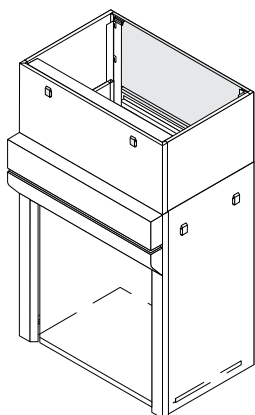


- Use to enclose space at right side of Concept, Pioneer and Mistral between lower right side panel and ceiling
- 17-1/2" high panel is limited to Pioneer fume hood having an unframed sash
- Requires front ceiling and sash enclosure panels

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

Hood Depth	Height			
	17-1/2" (445mm)	20-1/2" (521mm)	28-1/2" (724mm)	32-1/2" (826mm)
31-1/4" (794mm)	54L31170RCEP	54L31200RCEP	54L31280RCEP	54L31320RCEP
36" (914mm)	54L36170RCEP	54L36200RCEP	54L36280RCEP	54L36320RCEP
37-1/4" (946mm)	54L37170RCEP	54L37200RCEP	54L37280RCEP	54L37320RCEP
43-1/4" (1099mm)	54L43170RCEP	54L43200RCEP	54L43280RCEP	54L43320RCEP

**Upper Rear Ceiling Enclosure Panels – Bench Fume Hoods**



- Use to enclose space between lower rear panel and ceiling of Concept, Pioneer and Mistral fume hoods
- Requires front ceiling and sash enclosure, left and right ceiling enclosure panels

**Installation information:** With suspended ceilings, it is suggested that the enclosure assembly extend to the bottom of the ceiling. The hung ceiling should extend over the top of the fume hood and be trimmed around the mechanical connections to ensure proper room pressure control of the HVAC system.

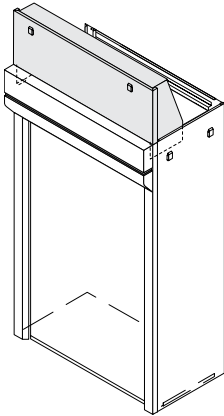
Hood Depth	Height			
	17-1/2" (445mm)	20-1/2" (521mm)	28-1/2" (724mm)	32-1/2" (826mm)
48" (1219mm)	54L48170UBCE	54L48200UBCE	54L48280UBCE	54L48320UBCE
60" (1524mm)	54L60170UBCE	54L60200UBCE	54L60280UBCE	54L60320UBCE
72" (1829mm)	54L72170UBCE	54L72200UBCE	54L72280UBCE	54L72320UBCE
84" (2134mm)	54L84170UBCE	54L84200UBCE	54L84280UBCE	54L84320UBCE
96" (2438mm)	54L96170UBCE	54L96200UBCE	54L96280UBCE	54L96320UBCE



**Product features:**

- Enclosure panels for front, both sides and rear of floor-mounted fume hoods. Encloses space between top of superstructure and ceiling
- Made of steel, finished to match fume hood superstructure
- Installation hardware included

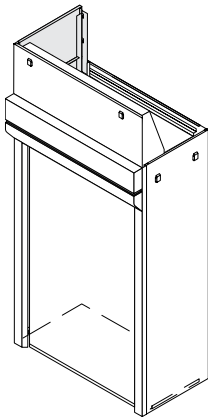
**Front Ceiling and Sash Enclosure Panels for Concept Floor-mounted Fume Hoods**



- Use to enclose space between front top and ceiling
- Provides enclosure for raised sash

Hood Depth	Height			
	17-1/2" (445mm)	20-1/2" (521mm)	28-1/2" (724mm)	32-1/2" (826mm)
48" (1219mm)	54L48175FCSE	54L48205FCSE	54L48285FCSE	54L48325FCSE
60" (1524mm)	54L60175FCSE	54L60205FCSE	54L60285FCSE	54L60325FCSE
72" (1829mm)	54L72175FCSE	54L72205FCSE	54L72285FCSE	54L72325FCSE
84" (2134mm)	54L84175FCSE	54L84205FCSE	54L84285FCSE	54L84325FCSE
96" (2438mm)	54L96175FCSE	54L96205FCSE	54L96285FCSE	54L96325FCSE

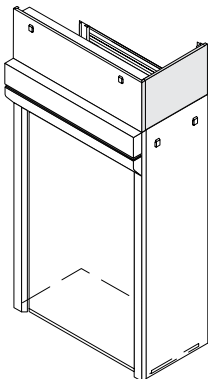
**Left Ceiling Enclosure Panel – Floor-mounted Fume Hoods**



- Use to enclose space at left side of Concept and Mistral floor-mounted fume hood between lower left side panel and ceiling
- Requires front ceiling and sash enclosure panel

Hood Depth	Height			
	17-1/2" (445mm)	20-1/2" (521mm)	28-1/2" (724mm)	32-1/2" (826mm)
35" (889mm)	54L35170LCEP	54L35200LCEP	54L35280LCEP	54L35320LCEP
41" (1041mm)	54L41170LCEP	54L41200LCEP	54L41280LCEP	54L41320LCEP
47" (1194mm)	54L47170LCEP	54L47200LCEP	54L47280LCEP	54L47320LCEP

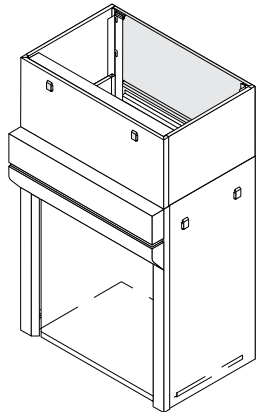
**Right Ceiling Enclosure Panel – Floor-mounted Fume Hoods**



- Use to enclose space at left side of Concept and Mistral floor-mounted fume hood between lower right side panel and ceiling
- Requires front ceiling and sash enclosure panel

Hood Depth	Height			
	17-1/2" (445mm)	20-1/2" (521mm)	28-1/2" (724mm)	32-1/2" (826mm)
35" (889mm)	54L35170RCEP	54L35200RCEP	54L35280RCEP	54L35320RCEP
41" (1041mm)	54L41170RCEP	54L41200RCEP	54L41280RCEP	54L41320RCEP
47" (1194mm)	54L47170RCEP	54L47200RCEP	54L47280RCEP	54L47320RCEP

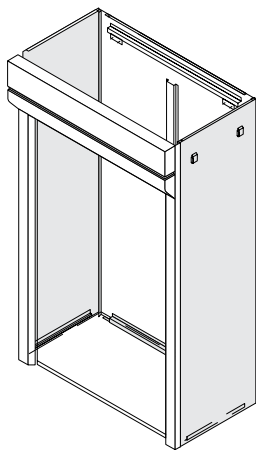
**Upper Back Ceiling Enclosure Panels – Floor-mounted Fume Hoods**



- Use to enclose space between lower back panel and ceiling of Concept or Mistral floor-mounted fume hoods
- Requires front ceiling and sash enclosure, left and right ceiling enclosure panels

Hood Depth	Height			
	17-1/2" (445mm)	20-1/2" (521mm)	28-1/2" (724mm)	32-1/2" (826mm)
48" (1219mm)	54L48170UBCE	54L48200UBCE	54L48280UBCE	54L48320UBCE
60" (1524mm)	54L60170UBCE	54L60200UBCE	54L60280UBCE	54L60320UBCE
72" (1829mm)	54L72170UBCE	54L72200UBCE	54L72280UBCE	54L72320UBCE
84" (2134mm)	54L84170UBCE	54L84200UBCE	54L84280UBCE	54L84320UBCE
96" (2438mm)	54L96170UBCE	54L96200UBCE	54L96280UBCE	54L96320UBCE

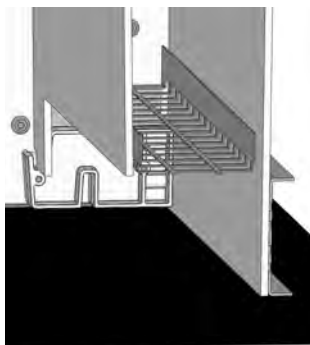
**Side Enclosure Panel – Floor-mounted Fume Hoods**



- Use to enclose one or both sides of Concept, Mistral and SafeAire II superstructures

Fume Hood Series	Fume Hood		
	Concept	Mistral	SafeAire II
554S Series	54L35890FHEP	54L35890MEP	54L33900FHEP
551S Series	54L41890FHEP	54L41890MEP	54L38900FHEP
552S Series	54L48890FHEP	54L47890MEP	54L44900FHEP

**Baffle Screen**



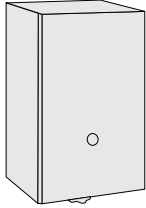
- Baffle screen prevents papers and loose items from being drawn into the duct

Hood Width	304 Stainless Steel painted	304 Stainless Steel unpainted	316 Stainless Steel unpainted
36" (914mm)	90L02900WH	90L02900	90L02900S6
48" (1219mm)	90L03000WH	90L03000	90L03000S6
60" (1524mm)	90L03100WH	90L03100	90L03100S6
72" (1829mm)	90L03200WH	90L03200	90L03200S6
96" (2438mm)	90L03300WH	90L03300	90L03300S6

**Ordering information:**

- Include the following information when ordering: product number, voltage, amps, watts and cycle of blower

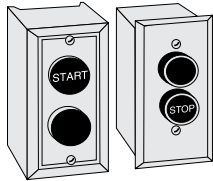
**Magnetic Fan Motor Starter**



- Integral-HP magnetic AC motor starter for single and three-phase motors from 1 to 10 HP
- Designed for full-voltage starting of motors
- Single-phase starter for use with self-starting, single-phase motors up to 3 HP/115 volts and 7-1/2 HP/230 volts
- Use with Remote Control Station for Motor Starter shown below
- Protection against positive overload and low-voltage release
- Heater coil not included
- Must be installed in or on a wall near the fume hood
- Extended lead time

Max. Amps.	NEMA Size	Poles	NEMA Contact Ratings – 60 Cycle					Product No.
			Max HP 1-Phase		Max HP 3-Phase			
			115V	230V	208V	240V	460V	
18	0	2	1	–	–	–	–	36L19000
18	0	2	–	2	–	–	–	36L19100
18	0	3	–	2	–	3	–	36L19300
18	0	3	–	–	–	–	5	36L19400
27	1	3	–	3	–	7-1/2	–	36L19600

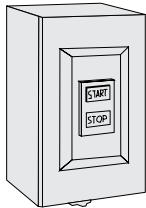
**Remote Control Station for Motor Starter**



- Remote control station for use with Magnetic Fan Motor Starter
- Vertical or horizontal mounting
- NEMA Type 1 general-purpose construction
- Surface-mount station has steel base and tight-fitting wrap-around cover
- Flush-mount station has stainless steel flat cover and mounting strap
- Extended lead time

Mount	Product No.
Surface	36L19800
Flush	36L19900

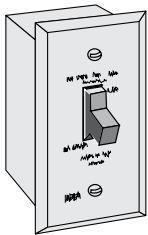
**Manual Fan Motor Starter**



- Integral-HP manual AC motor starter for single and three-phase motors from 1 to 10 HP
- Designed for full-voltage starting of motors
- Built-in start/stop buttons
- Thermal overload protection
- Heater coil not included
- Must be installed in or on a wall near the fume hood
- Extended lead time

NEMA Size	Poles	NEMA Contact Ratings – 60 Cycle				Product No.
		Max HP 1-Phase		Max HP 3-Phase		
		115V	230V	230V	460/575V	
0	2	1	2	–	–	36L20000
0	3	–	–	3	5	36L20100
1	3	–	–	7-1/2	10	36L20200

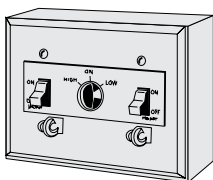
**Manual Snap-switch Fan Motor Starter**



- Fractional HP manual AC motor starter for all single-phase motors up to one HP
- Mounted in single gang receptacle box with flush stainless steel face plate
- Double pole switch for up to 1 HP, single-phase, 60-cycle, 115/230 Vac motor
- Thermal overload protection
- Heater coil not included
- Special order/extended lead time

Product No.
36L20300

**Two-speed Manual Motor Starter**




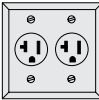

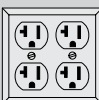
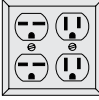

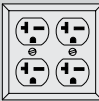

- For use with all two-speed blowers
- On-off selector switch for both high or low speed selection
- Two on/off switches with pilot lights and thermal overload protection
- NEMA Type 1, either as stainless steel plate for flush mounting, or as enclosure for surface mounting
- Heater coil not included
- Must be installed in or on a wall or base cabinet near the fume hood
- Extended lead time

Mount	Product No.
Surface	36L20400
Flush	36L20500

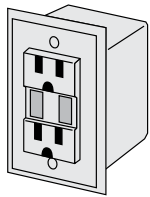
**Product features:**

- UL listed
- All fixtures on this page come with chrome flush plate unless noted with:
  - \* = Black plastic flush plate
  - S = Stainless steel flush plate
- Hospital grade fixtures denoted with an H
- 240 Volt outlets are available on special order
- Only flush single-faced electric outlets fit on fume hood front upright post
- Electrical fixtures are not recommended inside fume hood per NFPA-45
- “36L1” denotes an ivory device
- “36L2” denotes a black device

**Outlets**

Receptacle Configuration	Box Style		
	Flush Single-faced	Flush 2-Gang Single-Faced	
Polarized 3-wire, grounding type, 120V, 20 Amp, NEMA 5-20R		36L13300 36L20700*	NA
		NA	36L15100
Polarized 3-wire, grounding type 120V, 20 Amp, NEMA 5-20R		36L11200 36L112S0 36L112H0 36L21200 36L212S0	NA
		NA 36L120H0	36L12000
Polarized 3-wire, grounding type combination, 120V, 20 Amp, NEMA 5-20R 240V, 15 Amp, NEMA 6-15R		NA	36L09000
Polarized 3-wire, grounding type 240V, 20 Amp, NEMA 6-20R		36L12300 36L21300* 36L123S0 36L213S0	NA
		NA	36L12900
Polarized 3-wire, grounding type		36L10900 36L109S0 36L209S0 36L20900*	NA

**Ground Fault Interrupter**



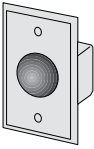
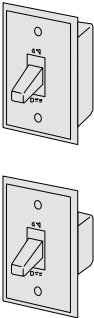
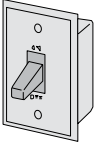
- For protection against line-to-ground shock hazards
- 120V, 20 amp, NEMA-5-20R
- Flush mounted with black plastic face plate

<b>Product No.</b>
36L20600

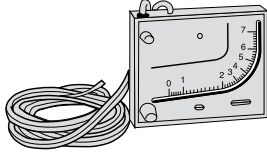
**Product features:**

- UL listed
- All fixtures on this page come with chrome flush plate unless noted with:
  - \* = Black plastic flush plate
  - S = Stainless steel flush plate
- For use on motor blowers up to 3/4 h.p.
- “36L1” denotes an ivory device
- “36L2” denotes a black device

**Switches and Pilot Lights**

	Pilot Light	Pole		Volt		Amps	Product No.
		Single	Double	120	240	20	
 Pilot Light Only	X			X		–	36L13100
	X			X		–	36L131S0
	X			X		–	36L24400*
 Toggle Switches			X		X	X	36L11600
			X		X	X	36L24100*
		X		X		X	36L11100
		X		X		X	36L111S0
		X		X		X	36L21100*
 Lighted Toggle Switch		X		X		X	36L12100
	X	X		X		X	36L121S0
	X		X		X	X	36L12600
	X	X		X		X	36L24200*
	X		X		X	X	36L24300*

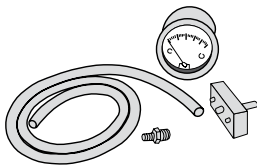
**Manometer**



- Used with filters in fume removal system
- Inclined vertical, liquid-filled gauge continuously measures pressure differentials to monitor filter conditions
- 0–3” WC operating range
- Assembly includes 8 feet of double tubing, two connectors, mounting screws, one bottle of red gauge oil, and instructions
- Extended lead time required for delivery

<b>Product No.</b>
54L25600

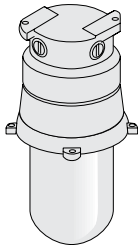
**Static Pressure Gauge**



- Compact Minihelic® dial-type gauge to sense static pressure and determine airflow
- Flush- or surface-mounted with optional bracket
- Includes tube adapter, sensor set, 42” (1067mm) long tubing and instructions
- Extended lead time

Width	Product No.
0-1	54L31200
0-3 for use with HEPA filter	54L31300

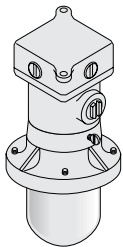
**Vapor-proof Light**



- Provides alternate interior fume hood illumination for procedures requiring vapor-proof lighting
- Uses one 100-watt bulb
- 120V, 60-cycle
- One light is adequate for three- and four-foot fume hood; two lights recommended for five, six, seven, and eight-foot fume hood
- 3-3/4” (95mm) diameter
- 7” (178mm) deep
- Extended lead time

<b>Product No.</b>
54L21400

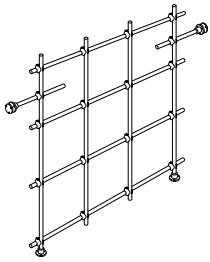
**Classified Explosion-proof Light**



- For use in hazardous atmosphere conditions
- UL listed to the following National Electric code classes: Class I – Division 1, 2 – Group C, D
- Uses one 32-watt CFL bulb
- 120V, 60-cycle
- One light is adequate for three and four-foot fume hood; two lights recommended for five, six, seven and eight-foot fume hood

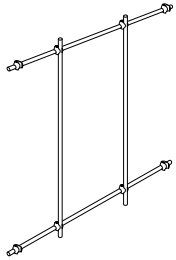
<b>Product No.</b>
54L21600

**Lattice Rod Assemblies**



- For all Concept, Pioneer, Mistral and SafeAire II bench or highline fume hoods
- Solid 1/2" (13mm) aluminum rod lattice to support interior fume hood apparatus
- Fastening hardware included

Fume Hood Width	Product No.
48" (1219mm)	26L15000
60" (1524mm)	26L15100
72" (1829mm)	26L15200
96" (2438mm)	26L15300



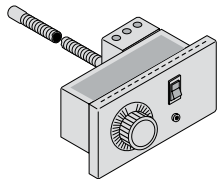
- For Horizon fume hoods
- Solid 1/2" (13mm) aluminum rod lattice – 30" (762mm) height
- Two horizontal and two vertical rods.
- Fastening hardware included

Fume Hood Width	Product No.
48" (1219mm)	26L15800
60" (1524mm)	26L15900
72" (1829mm)	26L16000

**Product features**

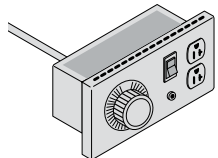
- Designed for factory installation in the front flush panel of base cabinets to provide a variable voltage source for heating devices
- "O" suffix indicates a junction box attached to the rear of the enclosure
- "A" suffix indicates a 42" long twist-lock cord plug
- Flush Variac units in base cabinets will create a nonstandard cabinet

**Variac Voltage Transformers**



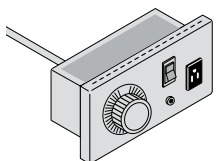
- Includes a switch and pilot light
- Input – 120VAC, 50/60 Hz  
Output – One variable junction box 0-120VAC, 10AMP

	Product No.
For all steel cabinets	36L290SO
For wood and plastic laminate cabinets	36L290WO



- Includes a switch and pilot light, one constant duplex electrical receptacle 120VAC 16AMP
- Input – 120VAC, 50/60 Hz  
Output – 0-120VAC, 10AMP

	Product No.
For all steel cabinets	36L288SO
For wood and plastic laminate cabinets	36L288WO
For all steel cabinets	36L288SA
For wood and plastic laminate cabinets	36L288WA

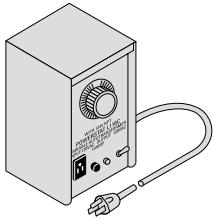


- Includes a switch and pilot light, one single electrical receptacle
- Input – 120VAC, 50/60 Hz  
Output – one variable outlet, 0-120VAC, 10AMP

	Product No.
For all steel cabinets	36L289SO
For wood and plastic laminate cabinets	36L289WO
For all steel cabinets	36L289SA
For wood and plastic laminate cabinets	36L289WA



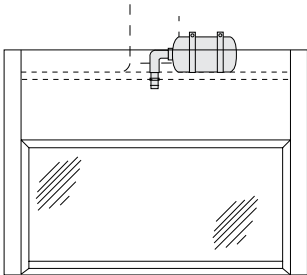
Free-standing Variac Voltage Transformers



- Variable auto-transformer free-standing module designed for installation on the counter top
- Input, 120VAC, 50/60 Hz – output, 0-140VAC, 10AMP
- Includes integral toggle switch, fuse holder, single electrical receptacle and power-on light
- Supplied with 72" long power cord with receptacle plug

	<b>Product No.</b>
Special order	36L26700

Automatic Fire Extinguisher



- Dry chemical system
- Includes dry chemicals, distribution piping, heads and activating link
- Fume-resistant plastic finish on all exposed parts
- Activating link set to operate at 300°F (148°C)
- Extended lead time required for delivery
- Requires field installation

Fume Hood Width	Fume hood with any liners except "S" & "K"	Fume hood with "S" liners*	Fume hood with "K" liners*
48" (1219mm)	54L48600	54L4860S	54L4860K
60" (1524mm)	54L48700	54L4870S	54L4870K
72" (1829mm)	54L48800	54L4880S	54L4880K
96" (2438mm)	54L48900	54L4890S	54L4890K

\*Fume hood with "S" & "K" liners and Hamilton Concept are nonstandard when ordering fire extinguishers

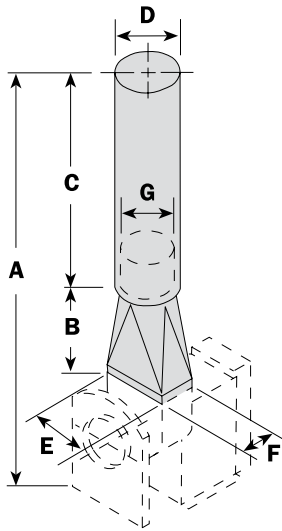
Face Velocity Labels



- Mount on left or right post of vertical-rising sash fume hood
- Identifies face velocity in relation to sash position
- Peel-and-stick, fume- and reagent-resistant plastic material

Post Orientation	100FPM (black)	150FPM (red)
Left	90L10000	90L10100
Right	90L07600	90L07700

Zero-static Exhaust Outlets



- Roof-top stack outlet for vertical fume hood exhaust discharge
- For roof-mounted blowers only
- Designed to minimize re-entrainment by ducting fumes above roof surface dead air area
- Weather- and corrosion-resistant stainless steel, for weather protection without additional rear-pressure
- This assembly may be required by code in some states

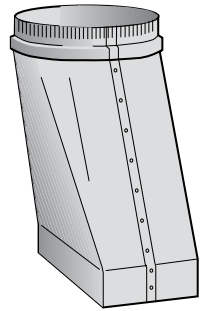
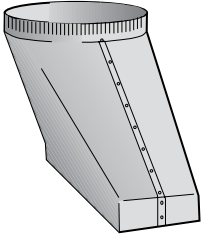
For Use with Blower	A	B	C	D	E*	F*	G	Product No.
55L75300 thru 55L75800	81-7/8" (2080mm)	16" (406mm)	46" (1168mm)	9" (229mm)	8-1/4" (210mm)	5-3/8" (137mm)	8" (203mm)	54L41100
55L75900 thru 55L76600	82-1/8" (2086mm)	16" (406mm)	46" (1168mm)	10" (254mm)	10-3/4" (273mm)	6-1/2" (165mm)	9" (229mm)	54L41200
55L76700 thru 55L77200 55L78500 and 55L78600	87-1/8" (2213mm)	16" (406mm)	50" (1270mm)	11" (279mm)	11-3/4" (298mm)	8" (203mm)	10" (254mm)	54L41300
55L77300 thru 55L77800 55L78700 and 55L78800	104-1/2" (2654mm)	16" (406mm)	62" (157mm)	14" (356mm)	13-1/4" (337mm)	9-5/8" (244mm)	13" (330mm)	54L41400
55L77900 thru 55L78200 55L78900	111-3/8" (2829mm)	18" (457mm)	66" (1676mm)	15" (381mm)	14-3/8" (365mm)	10-3/4" (273mm)	14" (356mm)	54L41500
55L78300 and 55L78400 55L79000	120-3/4" (3067mm)	18" (457mm)	74" (1880mm)	17" (432mm)	16-1/4" (413mm)	11-3/4" (298mm)	16" (406mm)	54L41600

\*Blower exhaust outlet.

**Duct Transitions**

- Metal ductwork connecting fume hood exhaust or supply system to building exhaust or supply system
- Exhaust transitions made in 22 gauge type 304 stainless steel (rectangular duct to round duct)
- Supply transitions made in 22 gauge galvanized steel (round duct to rectangular duct)
- 16" (406mm) high

**Ordering information:** For 316 stainless steel, add suffix S6 to the product number



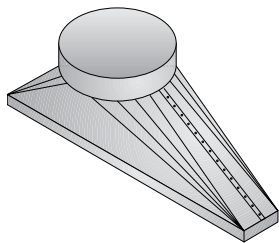
**Exhaust Transitions**

Duct O.D.	Product No.
6" x 9" to 8" round (152 x 229 to 203mm round)	54L90100
6" x 15" to 10" round (152 x 381 to 254mm round)	54L90200
6" x 23" to 12" round (152 x 584 to 305mm round)	54L90300
6" x 26" to 12" round (152 x 660 to 305mm round)	54L90900
6" x 30" to 14" round (152 x 762 to 356mm round)	54L90400

**Supply Transitions**

Duct O.D.	Product No.
9" round to 6" x 12" (203mm round to 152 x 305mm)	54L90500
10" round to 6" x 15" (254mm round to 152 x 381mm)	54L90600
11" round to 6" x 18" (279mm round to 152 x 457mm)	54L90700
12" round to 6" x 24" (305mm round to 152 x 610mm)	54L90800

**Exhaust Duct Transitions – for Horizon Only**



- Low profile transition from fume hood to duct for use where ceiling heights are lower than normal
- Designed to reduce static pressure
- Made of 22 gauge type 304 stainless steel
- 13" (328mm) overall height

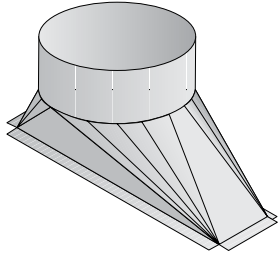
**For Single Fume Hood**

Fume Hood Width	Outlet Diameter	Inlet Dimensions	Product No.
48" (1219mm)	10" (254mm)	4" x 30" (102 x 762mm)	54L91400
60" (1524mm)	10" (254mm)	4" x 30" (102 x 762mm)	54L91400
72" (1829mm)	12" (305mm)	4" x 30" (102 x 762mm)	54L91500

**For Double Fume Hood**

Fume Hood Width	Outlet Diameter	Inlet Dimensions	Product No.
48" (1219mm)	12" (254mm)	9" x 30" (229 x 762mm)	54L91600
60" (1524mm)	12" (254mm)	9" x 30" (229 x 762mm)	54L91600
72" (1829mm)	14" (305mm)	9" x 30" (229 x 762mm)	54L91700

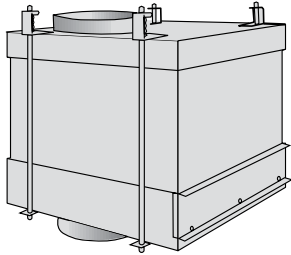
**Combination Exhaust Collar/Transitions**



- Replaces standard rectangular exhaust collar
- Cannot be used with stainless steel-lined fume hood
- Low profile transition from fume hood to duct for use where ceiling heights are lower than normal
- Designed to reduce static pressure
- Made of 22 gauge type 304 stainless steel
- 13-1/2" (343mm) high
- Shipped separate unless ordered as nonstandard

Fume Hood Width	Outlet Diameter	Base Size	Product No.
48" (1219mm)	10" (254mm)	6" x 20-1/2" (152 x 521mm)	54L91000
60" (1524mm)	12" (305mm)	6" x 26-1/2" (152 x 673mm)	54L91100
72" (1829mm)	12" (305mm)	6" x 32-1/2" (152 x 826mm)	54L91200
84" (2134mm)	12" (305mm)	6" x 35-1/2" (152 x 902mm)	54L91800
96" (2438mm)	14" (356mm)	6" x 38-1/2" (152 x 978mm)	54L91300

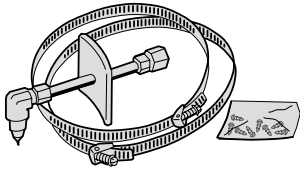
**Exhaust Filter Pack Assemblies**



- HEPA filter with steel frame; for inside use only
- Eliminates exhaust of particulate contaminants and maintains clean conditions in duct downstream of rough filter
- For 12" (305mm) diameter intake and exhaust collar
- Includes HEPA filter, rough filter and minihelic assembly
- HEPA filter traps and retains particles as small as 0.3 to 0.5 microns
- Access to filter exchange from front and sides
- Replacement filter sets include both HEPA and rough filters
- Requires duct transition (order separately) when mounted on top of fume hood
- 1.6 total S.P. (clean) @ 1250 CFM
- Extended delivery time required

Width	Height	Depth	Capacity	Painted Steel Frame	Stainless Steel Frame	Replacement Filters
24" (610mm)	24" (610mm)	24" (610mm)	1300 CFM	54L29600	54L29800	54L25400
24" (610mm)	24" (610mm)	30" (762mm)	1500 CFM	54L29700	54L29900	54L30000

**Perchloric Acid Duct Nozzle Assembly**

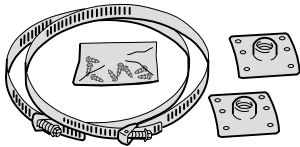


- Designed for provide a positive, fine spray for perchloric acid duct washdown
- For 12" (305mm) diameter duct; may be field cut for smaller duct diameters
- Stainless steel and fluorocarbon plastic
- Large nozzle orifice minimizes plugging
- Installation hardware (bands, screws and fittings for 1/4" diameter IPS pipe) included
- Available on extended lead time

**Water Volume per Nozzle**

								<b>Product No.</b>
Water pressure (PSI)	20	30	40	50	60	70	80	54L33300
Flow rate (GPM)	1.9	2.3	2.7	3.0	3.3	3.5	3.8	

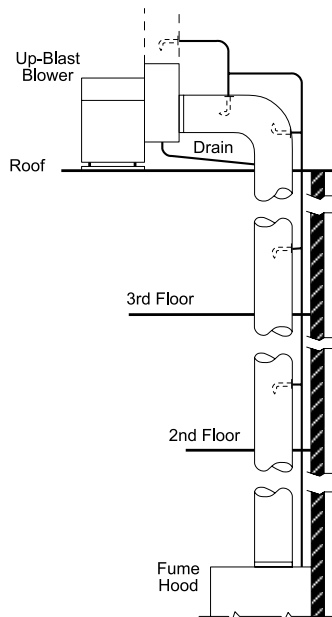
**Perchloric Acid Blower/Duct Drain Connection**



- Assembly including one set of two drains to provide connection between blower and duct for disposal of washdown waters
- Stainless steel and fluorocarbon plastic
- Attachment to blower scroll by screws, to duct by stainless steel bands or screws (provided)
- Sized for 1/2" diameter IPS pipe
- Connecting pipe not included
- Available on extended lead time

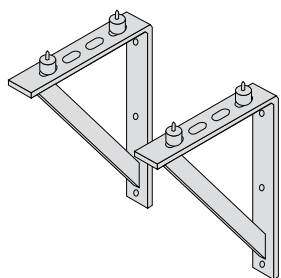
**Installation information:** Locate nozzles approximately every five feet and in each elbow. Fume Hood drains will handle 30 GPM. With long duct systems, stage washdown to prevent overflow. Washdown system should drain empty through fume hood nozzles.

Frequent wash- and wipe-down of perchloric systems will reduce explosion hazards and extend liner life. A 30-40 second washdown after fume hood usage is sufficient. Remove all apparatus from fume hood interior before washdown.



<b>Product No.</b>
54L33500

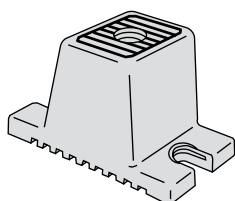
**Wall-hung Blower Mounting Brackets**



- Provides stable base for wall-mounted blowers
- Includes shock-absorbing adjustable motor mounts
- Installation hardware included
- Brackets sold in pairs
- Reference blower dimensions

Depth	Height	Product No.
18" (457mm)	18" (457mm)	54L22000
25" (635mm)	25" (635mm)	54L22000
30" (762mm)	30" (762mm)	54L22000

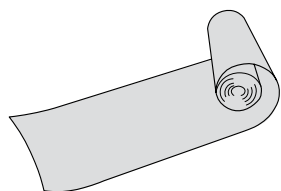
**Blower Mounting Pads**



- Neoprene vibration isolators designed to absorb vibration and maintain secure mount
- Maximum deflection (under heaviest load range) is 0.30 inches

Pads/Package	For Use with Blowers	Product No.
4	55L75300 thru 55L77200 55L78500 and 55L78600	54L54900
6	55L77300 thru 55L77800 55L78700 and 55L78800 55L81100 thru 55L81400	54L55000

**Silicone Duct Wrap**



- Fiberglass cloth provides vibration damping connection between blower and duct, or between fume hood collar and duct
- Allows connector to serve as transition for differences in diameter or for minor offsets
- Fume-, vapor- and condensation-resistant
- Installed with duct tape or silicone cement (not provided)
- Not suitable for perchloric acid systems

Width	Length	Product No.
5" (127mm)	72" (1829mm)	54L33100

## Duct Work

Round ducts are more efficient and less expensive than rectangular ducts, and are highly recommended for fume hood supply and exhaust systems.

The optimum diameter for the specific system will be determined by duct system static pressure and exhaust volume.

## Duct Material

The ideal duct material is resistant to corrosive fumes, fireproof, lightweight, low in cost and smooth on its interior surface.

Commonly used:

- Stainless Steel Types #302, 304 and 316
- Polyvinyl chloride (PVC)
- Polyvinyl steel (PVS)

## Recommended Duct Air Velocity

Moderate duct air velocities (approximately 1600 FPM) are high enough to evaporate moisture and other condensates that might form in the duct system, but low enough to minimize static pressure and associated noise.

Certain conditions may dictate the need for higher duct velocities. In these cases, an increase in static pressure and noise is to be expected.

## Controlling Duct and System Noise

To minimize noise associated with a fume hood duct system, static pressure must also be minimized. (See discussion of static pressure in Understanding Fume Hood Technology, page 10.) Undersized ducts and tight duct elbows also can contribute to unacceptable noise levels.

## Selecting a Fume Hood Blower

Proceed through the following steps, in order presented, to select the most appropriate blower for the fume hood application.

The steps required for selecting a blower are as follows:

- Step 1: Identifying Fume Hood Exhaust Volume & Static Pressure Loss (SPL)
- Step 2: Determining Optimum Duct Diameter
- Step 3: Calculating Total Duct Length
- Step 4: Calculating Duct SPL
- Step 5: Calculating Total System SPL
- Step 6: Choosing a blower with the capacity to move system exhaust volume at total system SPL

The grey boxes appearing within these instructions include an example of selecting a blower for a 72" (1828 mm) Restricted Bypass Fume Hood.

**Important:** This process is intended only for selecting a blower for an individual fume hood/exhaust system, with the blower located on the building exterior at the discharge end of the exhaust duct. Consult with an HVAC professional to select a blower for a manifold system.

## 1 Identify Fume Hood Exhaust Volume & Static Pressure Loss (SPL)

Turn to the specific product page in this catalog that describes the fume hood selected. Exhaust volume (CFM) and static pressure (SP) values are provided in the Operating Parameters chart.

For definitions of exhaust volume and static pressure and their role in fume hood dynamics, refer to page 9 in Understanding Fume Hood Technology.

Fume Hood Exhaust Volume (A): \_\_\_\_\_ CFM

Fume Hood SPL\* (B): \_\_\_\_\_ inches WG

**Example:** 54L2774P0 (5')

Fume Hood Exhaust Volume (A) 1000 CFM

Fume Hood SPL\* (B): .18 inches WG

\* For **Auxiliary Air** fume hood, use the Static Pressure Value from the Supply Air Requirements chart (not the Operating Parameters chart) on the product information page of the specified unit.

Determining the Proper Blower and Duct System

Information:

- Values in these charts are based on the performance characteristics of round ducts. If the application requires the use of rectangular ducts, calculate the round duct diameter equivalents using the conversion information on the next page.

Diameter and Area of Round Duct

Diameter	Area (Square Inches)	Area (Square Feet)
2" (51mm)	3.141	.0218
3" (76mm)	7.068	.0491
4" (102mm)	12.566	.0872
5" (127mm)	19.635	.1364
6" (152mm)	28.274	.1964
7" (178mm)	38.485	.2673
8" (203mm)	50.285	.3491
9" (229mm)	63.617	.4418
10" (254mm)	78.540	.5454
12" (305mm)	113.098	.7854
14" (356mm)	153.938	1.0690
16" (406mm)	201.062	1.3960
18" (457mm)	254.470	1.7670
20" (508mm)	314.160	2.1820
24" (607mm)	452.390	3.1420

Straight Duct Length Equivalent for 90 degree Elbows

Duct diameter	8"	10"	12"	14"	16"	18"	20"	24"
Linear feet	15	20	25	30	36	41	46	57

Calculations for 10 Feet of Metal Duct Handling Air

Duct Diameter	CFM	Static Pressure Loss - WG	Duct Velocity FPM
8" (203mm)	390	.025"	1120
8" (203mm)	520	.045"	1490
8" (203mm)	650	.068"	1865
8" (203mm)	788	.097"	2260
10" (254mm)	400	.009"	735
10" (254mm)	570	.017"	1055
10" (254mm)	630	.021"	1155
10" (254mm)	760	.030"	1400
10" (254mm)	850	.037"	1580
10" (254mm)	950	.045"	1745
10" (254mm)	1060	.056"	1945
10" (254mm)	1140	.064"	2090
10" (254mm)	1270	.079"	2330
12" (305mm)	600	.008"	760
12" (305mm)	750	.011"	950
12" (305mm)	840	.015"	1125
12" (305mm)	900	.017"	1270
12" (305mm)	940	.018"	1330
12" (305mm)	1000	.020"	1375
12" (305mm)	1110	.024"	1415
12" (305mm)	1250	.030"	1625
12" (305mm)	1390	.037"	1790
12" (305mm)	1500	.043"	1900
12" (305mm)	1560	.046"	1975
12" (305mm)	1670	.052"	2175
12" (305mm)	1870	.064"	2380
14" (357mm)	800	.006"	750
14" (357mm)	1000	.009"	935
14" (357mm)	1200	.013"	1125
14" (357mm)	1430	.018"	1335
14" (357mm)	1710	.026"	1600
14" (357mm)	1900	.032"	1780
14" (357mm)	2380	.048"	2230
14" (357mm)	2140	.038"	2005
14" (357mm)	2380	.048"	2230
14" (357mm)	2570	.055"	2400
14" (357mm)	2860	.067"	2730
16" (406mm)	1000	.0048"	725
16" (406mm)	1200	.0067"	875
16" (406mm)	1400	.0080"	960
16" (406mm)	1600	.0120"	1175
16" (406mm)	1800	.0150"	1300
16" (406mm)	2000	.0180"	1425
16" (406mm)	2200	.0220"	1600
16" (406mm)	2400	.0250"	1750
16" (406mm)	2600	.0280"	1875
16" (406mm)	2800	.0330"	2010
16" (406mm)	3000	.0380"	2175
18" (457mm)	1800	.008"	1010
18" (457mm)	2000	.010"	1175
18" (457mm)	2200	.012"	1275
18" (457mm)	2400	.014"	1370
18" (457mm)	2600	.016"	1475
18" (457mm)	2800	.019"	1600
18" (457mm)	3000	.022"	1700
18" (457mm)	3200	.024"	1825
18" (457mm)	3500	.028"	2000
18" (457mm)	3500	.028"	2000



## 2 Determine Optimum Duct Diameter

Reference corresponding chart on previous page. Based on exhaust volume selected in Step 1, the ideal duct velocity should range from 1300 to 1600 FPM, which will help to determine the proper duct diameter.

**Example:**

**1000 CFM** Based on 10 feet of duct length the Static Pressure Loss = **.020" wg** (Duct Velocity = 1375 FPM)  
 Duct Diameter Selected = **12"**

## 3 Calculate Total Duct Length

Total duct length will be used in determining Duct System SPL.

Length of straight duct **(D)**: \_\_\_\_\_ linear feet

(Use plan drawings for reference, if necessary.)

Number of elbows **(E)**: \_\_\_\_\_

Length equivalent per elbow **(F)** (per chart below): \_\_\_\_\_ linear feet

Multiply the number of elbows **(E)** by the length equivalent of elbows **(F)** for the total elbow length equivalent **(G)**.

**(E) x (F) = \_\_\_\_\_ linear feet (G)**

Add length of straight duct **(D)** to total elbow length equivalent **(G)** for total duct length **(H)**.

**(D) + (G) = \_\_\_\_\_ linear feet (H)**

### Straight Duct Length Equivalent for 90° Elbows\*

Duct diameter	.8"	10"	12"	14"	16"	18"	20"	24"
Linear feet	15	20	25	30	36	41	46	57

\*Based on smooth inside surface and elbows with radius 1.5 times duct diameter

To calculate straight duct length equivalents for elbows with radii other than 90°, multiply the 90° equivalent from above table by the value as shown below.

Elbow Radius	Multiply 90° Equivalent By
60°	.67
45°	.50
30°	.33

**Example:**

Length of straight duct **(D)**: 30 linear feet

Number of elbows **(E)**: 3 elbows

Length equivalent per elbow **(F)** = 30 linear feet

**(E) x (F) = 3 x 30 = 90 linear feet (G)**

**(D) + (G) = 30 + 90 = 120 linear feet (H)**

#### 4 Calculate Duct Static Pressure Loss (SPL)

Divide total duct length (H) by 10 in order to use the values on the operating parameters table for 10 feet of duct.

$$(H) \div 10 = \underline{\text{(I)}}$$

Refer to the line in the operating parameters table that was chosen in Step 3.

Multiply 10-foot duct SPL (C) by duct length (I) for total duct SPL (J)

$$(C) \times (I) = \underline{\text{inches WG (J)}}$$

##### Example:

$$(H) \div 10 = 120 \div 10 = 12 \text{ 10-ft lengths (I)}$$

$$(C) \times (I) = .020 \times 12 = .24 \text{ inches WG (J)}$$

#### 5 Determine Total System Static Pressure Loss (SPL)

Add total Fume Hood SPL (B) to duct SPL (J) for total system SPL (K).

$$(B) + (J) = \underline{\text{inches WG (K)}}$$

##### Example:

$$(B) + (J) = .18 + .24 = .42 \text{ inches WG (K)}$$

Exhaust volume (A) = CFM

Total system SPL (K) = \_\_\_\_\_ inches WG

These two values will be required for selecting a fume hood blower.

##### Example:

Exhaust volume = 1000

Total static pressure loss = .42

**6 Select a Blower**

Select a blower from the next five pages with the capacity to move the system Exhaust Volume (A) at the Total System SPL (K).

V-belt Drive Blowers are most desirable, as they can be adjusted to compensate for minor discrepancies in duct fabrication, room pressure and other building conditions that may cause deviations from anticipated fume hood face velocities.

High-pressure Blowers feature V-belt drives and rearward curved fan blades that are designed for higher static pressures.

Direct-drive Blowers are the most economical, but offer no adjustment capabilities.

**To select a blower model:**

- Determine the preferred general operating type (V-Belt, High Pressure or Direct Drive). Turn to the appropriate product page in this catalog.
- Find the total system SPL (K) in the Blower Ordering Chart. (Round up to the nearest quarter inch.)
- Look vertically down the CFM column to find the total system Exhaust Volume (A).
- If more than one blower model will fulfill this criteria, make a selection based on lowest motor horsepower and low RPM first, then inlet size closest to duct diameter. Ideally, the blower inlet size and duct diameter are the same. If this is not possible, choose an inlet size larger than the ductwork.
- Finally, choose a blower product number for either a 115-volt or 230-volt model. Generally, motors of 3/4 HP and up operate more cost-effectively in a 230-volt configuration.

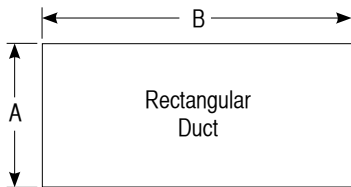
**Example:**

Round .42 to .5 for Static Pressure Loss & at 1000 CFM  
Blower Best Fit 55L769.

**Rectangular-to-Round Duct Conversions**

All of the calculations in this section are based on the use of round ducts. If building conditions or other circumstances dictate the use of square or rectangular ducts, use the following chart to find the round duct diameter equivalent.

Begin by finding the cross section area of the duct by multiplying height (A) by width (B). If duct area falls between the values listed in the table, choose the closest value.



**Rectangular-To-Round Duct Equivalents**

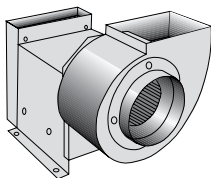
**Rectangular Duct Area**

Square Inches Equivalent	Square Feet	Round Duct
50.285	.349	8"
78.540	.5454	10"
113.098	.7854	12"
153.938	1.0690	14"
254.470	1.7670	18"

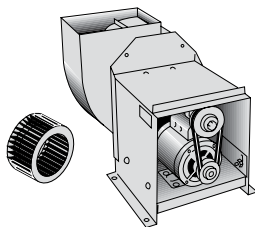
**Ordering information:**

- Use the Exhaust Characteristics Table on page 61 to choose a specific blower model
- Use the Total System Static Pressure Loss (K) as the basis of selection
- Locate the Exhaust Volume value (A) for the system
- Choose an Inlet Size that is the same or slightly larger than the ductwork
- Choose the lowest possible horsepower
- Choose from 115-volt or 230-volt models

**Caution:** Advise factory if blower is for perchloric acid application, as it must be modified to eliminate organic material in airflow.

**V-belt Drive Blowers – Forward Curve**

- Adjustable fan speeds can compensate for variations between planned and actual duct and system characteristics.
- 115/230-volt single phase or 230/460-volt 3-phase operation; other electric specifications available upon request.
- Clockwise rotation standard. Contact factory for optional counterclockwise rotation.
- Housing constructed of steel; fan wheel constructed of aluminum.
- Housing interior and impellers coated with fume resistant finish.
- Weather housing included.
- For strong acids; consult sales person



V-belt Drive Blowers

Exhaust Characteristics – V-belt Drive Utility Blower

Volt	Motor HP	Inlet O.D.	Blower Capacity in CFM (Cubic feet per minute) Static Pressure Loss (SP)														Product No.			
			1/4" SP		1/2" SP		3/4" SP		1" SP		1-1/4" SP		1-1/2" SP		1-3/4" SP			2" SP		
			CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM		CFM	RPM	CFM
115/230	1/6	8" (203mm)	503	1021	385	1081	326	1324	262	1529	-	-	-	-	-	-	-	-	-	55L75300
230/460	1/6	8" (203mm)	658	1210	602	1316	555	1428	496	1558	-	-	-	-	-	-	-	-	-	55L75400
115/230	1/3	8" (203mm)	770	1362	645	1362	500	1362	415	1529	400	1710	350	1873	300	2023	-	-	-	55L75500
230/460	1/3	8" (203mm)	859	1482	817	1568	770	1645	603	1729	510	1821	500	1923	200	2036	-	-	-	55L75600
115/230	1/2	8" (203mm)	920	1556	810	1556	680	1556	560	1556	490	1710	430	1873	450	2023	400	2163	-	55L75700
230/460	1/2	8" (203mm)	998	1685	962	1751	918	1819	880	1890	844	1960	812	2042	710	2124	680	2216	-	55L75800
115/230	1/6	9" (229mm)	725	817	550	842	500	1031	-	-	-	-	-	-	-	-	-	-	-	55L75900
230/460	1/6	9" (229mm)	819	881	761	971	690	1075	-	-	-	-	-	-	-	-	-	-	-	55L76000
115/230	1/4	9" (229mm)	824	883	655	883	600	1031	500	1192	450	1336	-	-	-	-	-	-	-	55L76100
230/460	1/4	9" (229mm)	949	992	905	1056	842	1144	796	1242	726	1340	-	-	-	-	-	-	-	55L76200
115/230	1/2	9" (229mm)	1141	1167	1080	1167	889	1167	842	1167	796	1331	749	1460	670	1576	600	1684	-	55L76300
230/460	1/2	9" (229mm)	1217	1238	1189	1272	1151	1325	1111	1389	1058	1463	1009	1535	960	1611	913	1694	-	55L76400
115/230	3/4	9" (229mm)	1123	1167	1080	1167	889	1167	842	1167	800	1331	760	1460	700	1576	630	1684	-	55L76500
230/460	3/4	9" (229mm)	1404	1412	1377	1433	1350	1473	1320	1520	1279	1576	1283	1638	1191	1703	1146	1765	-	55L76600
115/230	1/4	10" (254mm)	931	695	770	727	640	888	-	-	-	-	-	-	-	-	-	-	-	55L76700
230/460	1/4	10" (254mm)	1166	794	1060	874	975	940	-	-	-	-	-	-	-	-	-	-	-	55L76800
115/230	1/3	10" (254mm)	931	695	830	739	763	888	700	1022	-	-	-	-	-	-	-	-	-	55L76900
230/460	1/3	10" (254mm)	1305	860	1200	926	1113	994	1032	1059	-	-	-	-	-	-	-	-	-	55L77000
115/230	1/2	10" (254mm)	1357	883	1081	883	1050	883	950	1022	911	1144	845	1252	-	-	-	-	-	55L77100
230/460	1/2	10" (254mm)	1526	967	1432	1031	1348	1089	1272	1142	1208	1198	1113	1261	-	-	-	-	-	55L77200
115/230	3/4	10" (254mm)	1638	1021	1410	1021	1208	1021	1080	1021	1010	1144	950	1252	895	1208	851	1447	-	55L80900
230/460	3/4	10" (254mm)	1763	1090	1688	1140	168	1196	1535	1250	1472	1297	1417	1344	1346	1393	1272	1453	-	55L81000
115/230	1/4	13-1/4" (337mm)	1201	545	945	593	730	726	-	-	-	-	-	-	-	-	-	-	-	55L81100
230/460	1/4	13-1/4" (337mm)	1502	623	1330	677	1144	744	-	-	-	-	-	-	-	-	-	-	-	55L81200
115/230	1/3	13-1/4" (337mm)	1201	545	1030	593	1000	731	955	837	-	-	-	-	-	-	-	-	-	55L77300
230/460	1/3	13-1/4" (337mm)	1681	675	1522	721	1352	775	1180	844	-	-	-	-	-	-	-	-	-	55L77400
115/230	1/2	13-1/4" (337mm)	1544	629	1285	629	1201	764	1150	840	1090	937	-	-	-	-	-	-	-	55L81300
230/460	1/2	13-1/4" (337mm)	1966	760	1836	801	1699	844	1544	891	1395	950	-	-	-	-	-	-	-	55L81400
115/230	3/4	13-1/4" (337mm)	2049	778	1716	778	1373	778	1287	854	1205	948	1155	1025	1001	1107	-	-	-	55L77500
230/460	3/4	13-1/4" (337mm)	2284	858	2170	894	2045	928	1925	966	1795	1009	1673	1058	1544	1115	-	-	-	55L77600
115/230	1	13-1/4" (337mm)	2145	817	1888	817	1552	817	1544	891	1544	968	1459	1035	1459	1110	1459	1183	-	55L77700
230/460	1	13-1/4" (337mm)	2536	938	2431	970	2321	1000	2219	1035	2102	1070	1979	1107	1863	1151	1750	1207	-	55L77800
115/230	1/2	14-1/2" (368mm)	1677	594	1355	594	1177	669	1110	774	-	-	-	-	-	-	-	-	-	55L77900
230/460	1/2	14-1/2" (368mm)	2053	693	1918	722	1813	758	1678	804	-	-	-	-	-	-	-	-	-	55L78000
115/230	1	14-1/2" (368mm)	2366	778	2137	778	1892	778	1785	778	1711	887	1665	948	1640	1023	-	-	-	55L78100
230/460	1	14-1/2" (368mm)	2647	856	2536	881	2428	904	2346	931	2253	961	2150	998	2015	1039	-	-	-	55L78200
115/230	1	16-1/8" (410mm)	2862	594	2452	594	2050	594	2000	676	1955	740	1920	819	1895	874	-	-	-	55L78300
230/460	1	16-1/8" (410mm)	3291	668	3169	696	3018	726	2856	758	2680	796	2496	837	2320	884	-	-	-	55L78400

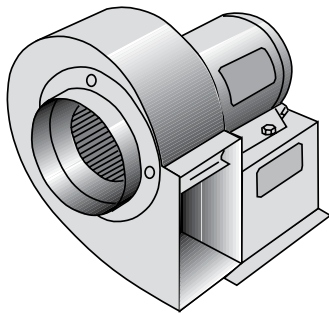
**Ordering information:**

- Use the Total System Static Pressure Loss (**K**) as the basis of selection
- Determine if a high-pressure or low-pressure blower would best fit the application
- Locate the Exhaust Volume value (**A**) for the system
- Choose an Inlet Size that is the same or slightly larger than the ductwork
- Choose the lowest possible horsepower
- Choose from 115/230-volt or 230/460-volt models

**Installation information:**

- Refer to Blower Roughing-in details

**Direct Drive Blowers – Basic Blower Models**



- For use when CFM exhaust requirements need not be exact, and when space and budget are limited
- Recommended for use with a balance damper (supplied by other)
- Rearward curved blades with high RPM settings
- 115/230-volt single phase or 230/460-volt 3-phase operation; other electric specifications available
- Low-pressure and high-pressure units available
- Permits simplified mounting for any angle of discharge; discharge position changeable in field
- Blower housing made of steel; fan wheel made of aluminum. Models 55L791–55L796 have steel fan wheel
- Interior of housing and fan wheel coated with fume-resistant finish; optional coatings available
- Optional weather housing recommended for outdoor use
- For strong acids; consult sales person

**Exhaust Characteristics – Low Pressure Models**

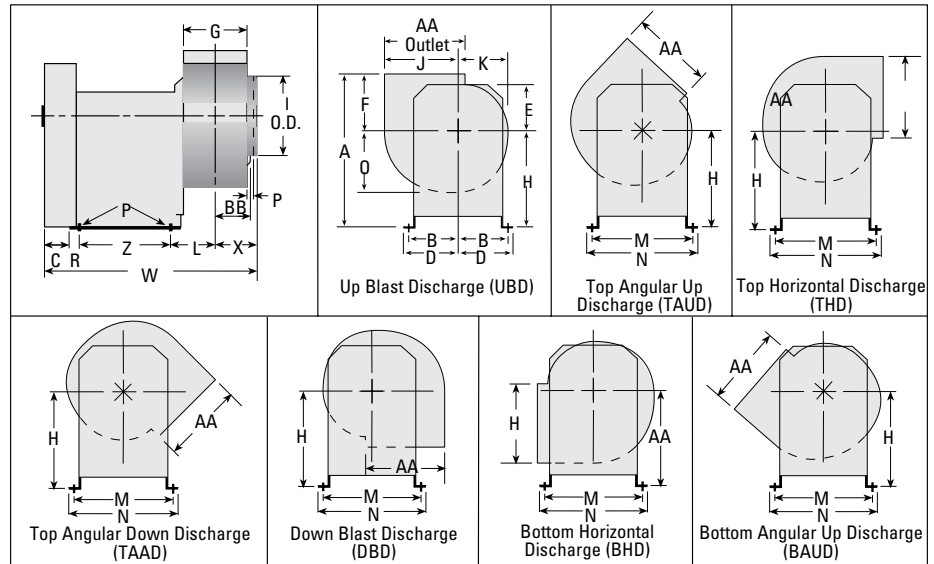
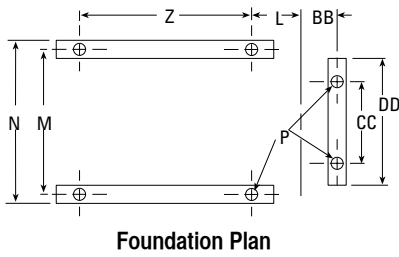
Blower Volt	Motor HP	Fan RPM	Free Air		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1-1/4" SP		Product No.
			CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	
115/230	1/6	1150	760	2570	680	2300	620	2095	535	1810	430	1455	-	-	-	-	-	-	-	-	55L79700
115/230	1/3	1750	1150	3885	1085	3665	1050	3550	1005	3400	960	3240	915	3090	865	2920	750	2535	580	1960	55L79900
115/230	1/3	1150	1180	2520	1160	2480	1125	2400	1090	2325	1035	2210	963	2060	855	1825	-	-	-	-	55L80100
115/230	3/4	1150	1260	3240	1970	3095	1870	2940	1800	2830	1710	2690	1605	2525	1500	2355	1290	2030	1020	1605	55L80300
230/460	1/3	1750	1150	3885	1085	3665	1050	3550	1005	3400	960	3240	915	3090	865	2920	750	2535	580	1960	55L80000
230/460	1/3	1150	1180	2520	1160	2480	1125	2400	1090	2325	1035	2210	963	2060	855	1825	-	-	-	-	55L80200
230/460	3/4	1150	1260	3240	1970	3095	1870	2940	1800	2830	1710	2690	1605	2525	1500	2355	1290	2030	1020	1605	55L80400
230/460	2	1150	3350	3900	3275	3815	3195	3725	3115	3630	3025	3530	2940	3430	2850	3320	2660	3100	2450	2855	55L80500

**Exhaust Characteristics – High Pressure Models**

Blower Volt	Motor HP	Fan RPM	Free Air		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1-1/4" SP		Product No.
			CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	
115/230	1	1750	1720	3670	1675	3580	1620	3460	1550	3310	1445	3085	1290	2755	1100	2345	-	-	-	-	55L80600
230/460	1	1750	1720	3670	1675	3580	1620	3460	1550	3310	1445	3085	1290	2755	1100	2345	-	-	-	-	55L80700
230/460	2	1750	2910	4510	2800	4380	2680	4150	2550	3900	2415	3795	2240	3520	2130	3345	1990	3130	1850	2910	55L80800

For V-belt Drive Blowers

Support bracket required on blowers with 13-1/4" O.D. inlet and larger.

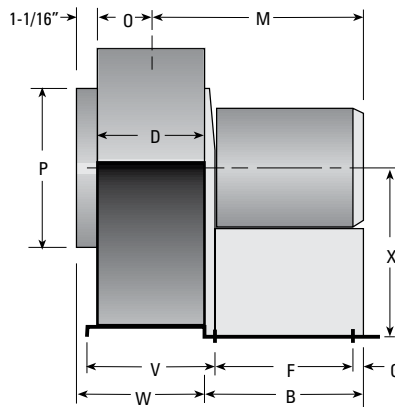
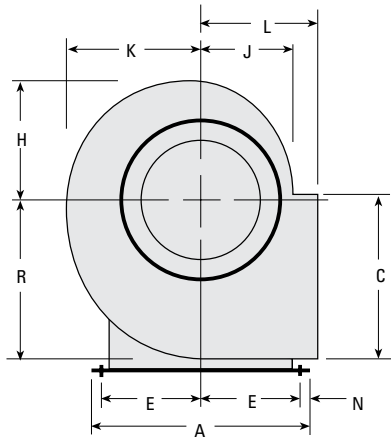


V-Belt Drive Blowers viewed from "Drive" Side

Wheel Dimensions	Blower Product No.					
	55L75300 thru 55L75800	55L75900 thru 55L76600	55L76700 thru 55L77200	55L77300 thru 55L77800	55L77900 thru 55L78200	55L78300 thru 55L78400
A	20-7/8"	21-1/8"	22-1/8"	27-1/2"	28-3/8"	29-3/4"
B	5-5/8"	6-1/4"	7-1/4"	8-3/4"	9-3/4"	10-5/16"
C	3"	3"	3"	3"	3"	3"
D	6-7/16"	7"	7-13/16"	9-1/2"	10-1/2"	11-1/16"
E	4-5/8"	5-5/8"	6-3/4"	8-1/2"	9-3/8"	10-3/8"
F	6-7/8"	7-1/8"	8-1/8"	10-1/2"	11-3/8"	12-3/8"
G	5-3/8"	6-1/2"	8"	9-5/8"	10-3/4"	11-3/4"
H	14"	14"	14"	17"	17"	17-3/8"
I	8"	9"	10"	13-1/4"	14-1/2"	16-1/8"
J	7-7/8"	9-3/16"	10-11/16"	13-1/4"	14-3/8"	16-1/4"
K	6"	6-3/4"	7-7/8"	10-1/8"	11-1/8"	12-3/8"
L	4-3/16"	4-3/16"	5-19/32"	6-15/32"	16-15/16"	7-7/16"
M	11-1/4"	12-1/2"	14-1/2"	17-1/2"	19-1/2"	20-5/8"
N	12-7/8"	14"	15-5/8"	19"	21"	22-1/8"
O	6-3/4"	7-3/4"	9-1/8"	11-1/2"	12-5/8"	14-1/8"
P	9/16"	9/16"	9/16"	9/16"	9/16"	9/16"
R	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
W	23-7/16"	24-5/8"	26-7/32"	28-11/32"	29-7/16"	30-7/16"
Z	11"	11"	11"	11"	11"	11"
AA	8-1/4"	10-3/4"	11-3/4"	13-1/4"	14-3/8"	16-1/4"
BB	-	-	-	5-5/8"	6-3/16"	16-11/16"
CC	-	-	-	14-3/4"	16"	17-5/8"
DD	-	-	-	16-3/8"	17-5/8"	19-1/4"

Dimensions shown are nominal. Some variations may occur in manufacturing and installation.

Direct-drive Blowers



- Housing permits simplified mounting for angle of discharge.
- Discharge position can be easily changed in the field.

Wheel	Blower Product No.			
	55L79700 thru 55L79900	55L80100 and 55L80200 55L80600 and 55L80700	55L80300 and 55L80400 55L80800	55L80500
Dimensions	7-5/8" x 3-5/8"	9" x 4-1/2"	10-5/8" x 5-1/4"	12-1/4 x 6-1/2"
A	11"	12-1/8"	14-3/4"	16-3/8"
B	8"	8"	11-1/2"	13"
C	8-1/4"	10-3/4"	11-3/4"	13-1/4"
D	5-3/8"	6-1/2"	8"	9-5/8"
E	5"	5-3/8"	6-7/8"	7-3/8"
F	7"	7"	10"	9-3/4"
G	1/2"	1/2"	3/4"	2-1/2"
H	6"	6-3/4"	8"	10-1/8"
J	4-5/8"	5-3/8"	6-3/4"	8-1/2"
K	6-3/4"	7-3/4"	9-1/8"	11-1/2"
L	6-7/8"	7-1/8"	8-1/8"	10-1/2"
M*	10-7/8"	16-1/8"	16-1/2"	-
N	3/8"	3/8"	3/8"	3/16"
O	3-3/4"	4-3/8"	5"	6-1/2"
P	8"	9"	10"	13-1/4"
R	8"	9-1/4"	10-3/4"	13-1/4"
V	-	-	-	11-1/4"
W	-	-	-	11-1/4"
X	8-1/2"	9-7/8"	11-1/4"	17"

\*Varies with motor.

Dimensions shown are nominal. Some variations may occur in manufacturing and installation.



**General information:**

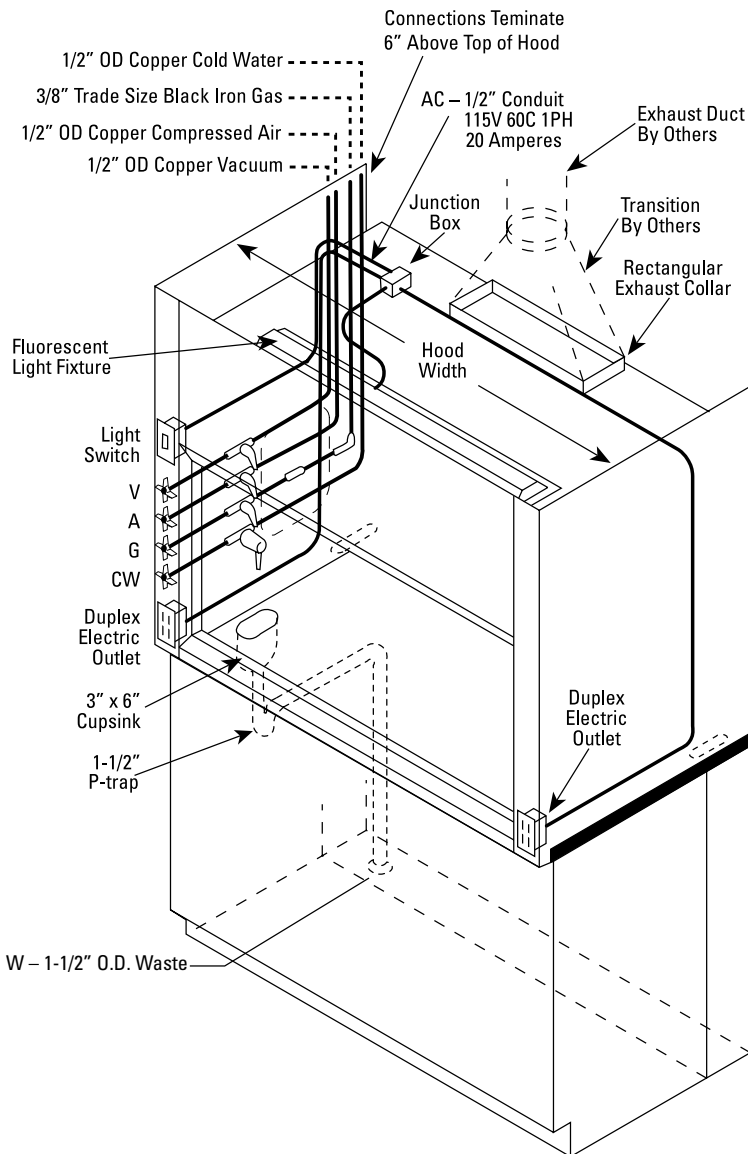
- Fume hood service line connections for water, waste, gas, air and vacuum will vary, depending on the point of origin and number of services provided
- Services may be brought up from below, through the floor, or down from the ceiling through the fume hood wall
- Any other method of supplying services may require special scribing or installation procedures

**Product information:**

- Pre-piped fume hood include plumbing to elbow or to bottom or top of fume hood as specified
- Material selections are as follows:  
 Water pipe – copper  
 Air pipe – copper (standard); black iron  
 Gas pipe – black iron  
 Vacuum pipe – copper (standard)

**Installation information:**

- Piping and connectors required for final connection to building lines are not furnished
- Because of code requirements and variable building conditions, connection components should be furnished by appropriate contractor
- Refer to roughing-in details for the specific type of fume hood for location of service outlets
- Requires 9/16" (14.3mm) remote control or 1-1/4" (31.8mm) front-loaded mounting hole at front posts
- For standard pre-piping configurations, please see page 14



**Typical Layout**

Pre-piped and pre-wired fume hood installation, Show in roughed-in from above.

**Note:** For shipping purposes piping risers are turned up; they must be turned down when fume hood is installed.

**Note:** For shipping purposes, on fume hoods that are pre-piped down, the piping risers are turned up; they must be turned down when fume hood is installed.

**Product information:**

- Pre-wired electrical service connections are available as an option and must be ordered separately
- All electrical services in fume hood post are pre-wired to a single junction box on top of fume hood
- All electrical services for items included in base cabinet(s) must be ordered separately (e.g. VARIACS)
- Contact your Hamilton representative for pricing and delivery information

**Installation information:**

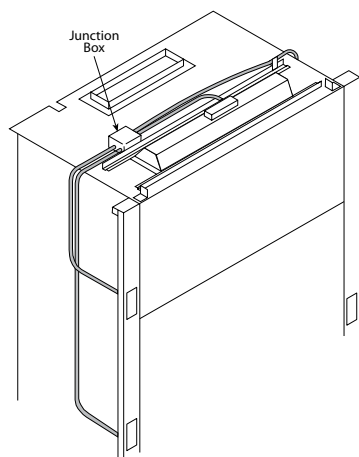
- Fume Hood ordered with pre-wired option will have all electrical services in fume hood post pre-wired to a single junction box on top of the fume hood

**Factory Pre-wiring of Standard Fume Hood**

Used as a pre-wire line for the standard set of electrical devices on any standard fume hood superstructure. One line is required for each device. In addition, it may be used to pre-wire one (1) additional standard, cataloged, 36L series product on each fume hood corner post. Please note that two-gang devices are not included, as these items will not fit in a standard fume hood corner post.

This product number does not represent a product that can be ordered by itself. The product should be used in conjunction with a fume hood superstructure ordered with a fixture location sheet.

Standard attached fume hood safety monitors do not require a pre-wire line.



<b>Product No.</b>
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54L79900
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<b>Product Number</b>	<b>Page Number</b>	<b>Product Number</b>	<b>Page Number</b>	<b>Product Number</b>	<b>Page Number</b>	<b>Product Number</b>	<b>Page Number</b>	<b>Product Number</b>	<b>Page Number</b>
20L258BB.....	24	21L60261LR.....	22	21L9630.....	23	30L57300.....	11	32L2800.....	18
20L258BL.....	24	21L60261RF.....	22	21L9631000.....	21	30L57400.....	11	32L28100.....	6
20L258BN.....	25	21L60261RR.....	22	21L96311LF.....	22	30L57500.....	11	32L551CW.....	10
20L258BR.....	25	21L6030.....	23	21L96311LR.....	22	30L57600.....	11	32L551HW.....	10
20L258WB.....	25	21L6031000.....	21	21L96311RF.....	22	30L57700.....	11	32L552CW.....	10
20L258WL.....	25	21L60311LF.....	22	21L96311RR.....	22	30L57800.....	11	32L552HW.....	10
20L258WN.....	25	21L60311LR.....	22	21L96312BF.....	23	30L57900.....	11	32L554CW.....	10
20L258WR.....	25	21L60311RF.....	22	21L9632000.....	21	30L589AW.....	17	32L554HW.....	10
20L259BB.....	24	21L60311RR.....	22	21L96321LF.....	22	30L589GW.....	17	32L555CW.....	10
20L259BL.....	24	21L6032000.....	21	21L96321LR.....	22	30L589NW.....	17	32L555HW.....	10
20L259BN.....	25	21L60321LF.....	22	21L96321RF.....	22	30L589OW.....	17	32L564WA.....	9
20L259BR.....	25	21L60321LR.....	22	21L96321RR.....	22	30L589VW.....	17	32L565WA.....	9
20L259WB.....	25	21L60321RF.....	22	21L96322BF.....	23	30L58000.....	11	32L567WA.....	9
20L259WL.....	25	21L60321RR.....	22	21L9638000.....	21	30L80000.....	15	32L568WA.....	9
20L259WN.....	25	21L6038000.....	21	21L96381LF.....	22	30L80100.....	15	32L576DW.....	10
20L259WR.....	25	21L60381LF.....	22	21L96381LR.....	22	30L80200.....	15	32L577DW.....	10
20L260BB.....	24	21L60381LR.....	22	21L96381RF.....	22	30L80300.....	15	32L579DW.....	10
20L260BL.....	24	21L60381RF.....	22	21L96381RR.....	22	30L80500.....	15	32L580DW.....	10
20L260BN.....	25	21L60381RR.....	22	21L96382BF.....	23	30L80600.....	15	32L595CW.....	9
20L260BR.....	25	21L7226000.....	21	26L15000.....	48	30L80700.....	15	32L595HW.....	9
20L260WB.....	25	21L72261LF.....	22	26L15100.....	48	30L80800.....	15	32L596CW.....	9
20L260WL.....	25	21L72261LFSS.....	24	26L15200.....	48	30L81000.....	15	32L596HW.....	9
20L260WN.....	25	21L72261LR.....	22	26L15300.....	48	30L81100.....	15	32L616CW.....	12
20L260WR.....	25	21L72261RF.....	22	26L15800.....	48	30L81200.....	15	32L617CO.....	7
21L120262BF.....	23	21L72261RR.....	22	26L15900.....	48	30L81300.....	15	32L617HO.....	7
21L120262BR.....	23	21L7230.....	23	26L16000.....	48	30L81500.....	15	32L618CO.....	7
21L144262BF.....	23	21L7231000.....	21	27L161A0.....	18	30L81600.....	15	32L618HO.....	7
21L144262BR.....	23	21L72311LF.....	22	27L161G0.....	18	30L81700.....	15	32L619CO.....	7
21L3626000.....	21	21L72311LR.....	22	27L161V0.....	18	30L81800.....	15	32L619HO.....	7
21L3631000.....	21	21L72311RF.....	22	27L16200.....	18	30L82000.....	15	32L620CO.....	7
21L36261LF.....	22	21L72311RR.....	22	27L16300.....	18	30L82100.....	15	32L620HO.....	7
21L36261LFSS.....	24	21L7232000.....	21	28L152CW.....	17	30L82200.....	15	32L621CO.....	7
21L36261LR.....	22	21L72321LF.....	22	28L152HW*.....	17	30L82300.....	15	32L621HO.....	7
21L36261RF.....	22	21L72321LR.....	22	28L02700*.....	18	32L20000.....	3	32L622CO.....	8
21L36261RR.....	22	21L72321RF.....	22	30L496AW.....	11	32L20001.....	3	32L622HO.....	8
21L36311LF.....	22	21L72321RR.....	22	30L496GW.....	11	32L20200.....	3	32L623CO.....	8
21L36311LR.....	22	21L7238000.....	21	30L496VW.....	11	32L20400.....	3	32L623HO.....	8
21L36311RF.....	22	21L72381LF.....	22	30L497AW.....	11	32L20600.....	3	32L624CO.....	8
21L36311RR.....	22	21L72381LR.....	22	30L497GW.....	11	32L20700.....	3	32L624HO.....	8
21L4826000.....	21	21L72381RF.....	22	30L497VW.....	11	32L24500.....	4	32L6250.....	8
21L48261LF.....	22	21L72381RR.....	22	30L499AW.....	11	32L24600.....	4	32L625HO.....	8
21L48261LFSS.....	24	21L8426000.....	21	30L499GW.....	11	32L24700.....	4	32L626CO.....	8
21L48261LR.....	22	21L84261LF.....	22	30L499VW.....	11	32L24800.....	5	32L626HO.....	8
21L48261RF.....	22	21L84261LR.....	22	30L500AW.....	11	32L24900.....	5	32L627CO.....	7
21L48261RR.....	22	21L84261RF.....	22	30L500GW.....	11	32L25000.....	5	32L627HO.....	7
21L4830.....	23	21L84261RR.....	22	30L500VW.....	11	32L25100.....	5	32L628CO.....	8
21L4831000.....	21	21L8430.....	23	30L567A0.....	7	32L25200.....	5	32L628HO.....	8
21L48311LF.....	22	21L8432000.....	21	30L567G0.....	7	32L25300.....	5	32L62900.....	10
21L48311LR.....	22	21L84321LF.....	22	30L567V0.....	7	32L25400.....	5	32L63000.....	10
21L48311RF.....	22	21L84321LR.....	22	30L568A0.....	7	32L25500.....	5	32L63100.....	10
21L48311RR.....	22	21L84321RF.....	22	30L568G0.....	7	32L25600.....	5	32L63200.....	10
21L4832000.....	21	21L84321RR.....	22	30L568V0.....	7	32L26300.....	4	32L64900.....	17
21L48321LF.....	22	21L8438000.....	21	30L569A0.....	7	32L26400.....	4	32L66800.....	13
21L48321LR.....	22	21L84381LF.....	22	30L569G0.....	7	32L26500.....	4	32L66900.....	13
21L48321RF.....	22	21L84381LR.....	22	30L569V0.....	7	32L26600.....	4	32L645CW.....	16
21L48321RR.....	22	21L84381RF.....	22	30L570A0.....	7	32L26700.....	4	32L645HW.....	16
21L4838000.....	21	21L84381RR.....	22	30L570G0.....	7	32L26800.....	4	32L64600.....	16
21L48381LF.....	22	21L9626000.....	21	30L570V0.....	7	32L26900.....	6	32L647CW.....	16
21L48381LR.....	22	21L96261LF.....	22	30L571A0.....	7	32L27000.....	6	32L647HW.....	16
21L48381RF.....	22	21L96261LFSS.....	24	30L571G0.....	7	32L27100.....	6	32L64800.....	16
21L48381RR.....	22	21L96261LR.....	22	30L571V0.....	7	32L27400.....	6	32L657CW.....	13
21L6026000.....	21	21L96261RF.....	22	30L572A0.....	7	32L27500.....	6	32L663CW.....	12
21L60261LF.....	22	21L96261RR.....	22	30L572G0.....	7	32L27600.....	6	32L664CW.....	12
21L60261LFSS.....	24	21L96262BF.....	23	30L572V0.....	7	32L27700.....	18	32L665CW.....	12

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54L396280FD	39	54L4860S	49	54L84320UBCE	42	54LFA1000D0	20	60L0481236	28
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54L396285FD	39	54L4870K	49	54L84530LBEP	36	54LFA1000P	20	60L0481236	28
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54L41320RCEP	41	54L60200UBCE	40	54L91400	51	55L76100	61	60L0482936	29
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54L41890FHEP	42	54L60280UBCE	40	54L91700	51	55L76500	61	60L0482939	30
54L41890MEP	42	54L60280UBCE	42	54L91800	52	55L76600	61	60L0482939	30
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54L43170RCEP	40	54L60320FCSE	37	54L96170UBCE	40	55L76800	61	60L0483636	29
54L43200LCEP	39	54L60320UBCE	40	54L96170UBCE	42	55L76900	61	60L0483636	29
54L43200RCEP	40	54L60320UBCE	42	54L96175FCSE	41	55L77000	61	60L0483636	29
54L43280LCEP	39	54L60325FCSE	41	54L96200FCSE	37	55L77100	61	60L0483639	30
54L43280RCEP	40	54L60530LBEP	36	54L96200UBCE	40	55L77200	61	60L0483639	30
54L43320LCEP	39	54L60550LBEP	36	54L96200UBCE	42	55L77300	61	60L0483639	30
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