

OVERVIEW

What Is A Fume Hood - A laboratory chemical fume hood is first and foremost a safety device. Users need to be able to rely on their fume hood as a primary containment device to protect them from the hazards within. It is connected to a remote exhaust system and provides operator protection by drawing air around the operator and into the hood chamber through the working opening. When the sash is closed, the exhaust system continues to operate to maintain the working chamber and exhaust ducting at negative pressure and provide containment of fumes and vapors. Fume hoods are generally served by either constant air volume (CAV) or variable air volume (VAV) exhaust systems.

Automatic Compensating Bypass - A typical bypass fume hood can be used on a constant volume system. This is due to an alternate path being created to allow air to enter the fume hood when the sash is closed. Automatic compensating bypass hoods can be manufactured with vertically rising sashes only. Certain types of fume hoods can't be made in an automatic compensating bypass configuration. Such cases include fume hoods that include horizontally sliding panels as well as double hung vertically rising sashes. While the velocity increase is more noticeable as the sash is closed, such hoods can be used successfully with a CAV exhaust system.

Restricted Bypass - A restricted bypass hood is needed when using a hood with a VAV exhaust system. When the sash is closed, a smaller alternate opening is provided to allow for the minimum required airflow.

The Cost Of Safety - Fume hoods and other exhaust devices are the single largest energy consumer in a typical laboratory. It is therefore essential to explore options to minimize the energy consumption. When seeking to lower the energy consumption of fume hoods there are, broadly speaking, three approaches.

- Reduce the size of the working sash opening while maintaining a conventional face velocity of 80 - 100 feet /minute
- Reduce the face velocity to 50 - 60 feet/minute while maintaining a generous working opening.
- Implement usage based controls such as VAV so that energy consumption is minimized while the fume hood is not in use.

Mott supports all these options with our product range which includes restricted bypass hoods for VAV use, High Efficiency hoods that operate at 50-60 feet/minute and the Low Volume model which features a reduced size working opening. Mott also offers auto lowering sashes in both spring return and motorized versions.

Types Of Fume Hoods

General Purpose Bench Top - The most common type of fume hood utilized in most types of labs. The liner selected is generally fiberglass reinforced polyester (FRP) which has a broad application.

General Purpose Floor Mount - Floor mounted hoods are used where the dimensions of the apparatus exceed what can be accommodated in a bench mounted fume hood or where the weight involved precludes placing the apparatus on a bench top.

High Performance Hoods - High performance hoods allow greatly reduced face velocities at full working height, resulting in a 40-50% reduction in energy use as compared to a general purpose hood. These are generally restricted to common bench top general purpose applications, suitable for VAV or CAV use.

Student Workstations - Student workstations are generally deployed in undergraduate teaching lab settings and are used by students while under supervision by instructor. Accordingly, materials of construction are adjusted to suit less demanding chemical resistance needs. Glass side and back windows are often provided. Often these hoods are placed on an island and are manufactured in a back-to-back configuration with two working chambers.

Acid Digestion Hoods - For operations involving heating and evaporation of acids, special materials are used in the construction of the hood interior. The principle changes include a PVC or polypropylene liner, polytetrafluoroethylene (PTFE) coated sash frame, lower airfoil and exhaust connection. In addition, if the hood will be used with hydrofluoric acid, then the sash glass and light lens is changed from glass to polycarbonate.

OVERVIEW

Perchloric Acid Hoods - For operations involving heating and evaporation of perchloric acid, special fume hoods are produced. These hoods are always bench top models with the addition of a wash-down system and drain trough to remove hazardous perchlorate residues from the hood interior. Perchloric acid hoods are always connected to a dedicated exhaust system which is also equipped with a water wash system. Perchloric acid hoods can be equipped with a stainless steel liner if they will be used with perchloric acid only or a PVC liner if they will be used with other acids as well.

Radioisotope Hoods - Radioisotope hoods are designed for use with radioactive materials and have a smooth coved stainless steel liner with an integral dished work surface. The work surface is reinforced to support the weight of heavy shielding which may need to be utilized by the user.

Other Exhaust Devices - While canopy hoods are not generally considered fume hoods and do not provide containment, they do have application in laboratories where large quantities of heat or nuisance odors need to be removed. The Oval Air Station ventilated island bench is useful in undergraduate labs where potential hazards are low and normal fume hoods are not needed.

Fume Hood Sash Types - Mott provides fume hoods with a variety of sash configurations. The most common type for bench hoods is the vertically rising sash. This sash travels up and down only and generally provides maximum protection for the operators face when it is used approximately half open. The combination sash is essentially a vertically rising sash frame with smaller inset horizontally sliding panels. In general this should be reserved for operations that require frequent access to the upper portion of the fume hood chamber. Larger floor mount fume hoods can be provided with double hung vertically rising sashes or top hung horizontally sliding panels. Various combinations of the above sashes can be specifically designed to meet your exact needs.

Plumbing Types & Materials - Fume hoods can be pre-plumbed in the factory as required. Mott uses the following materials unless otherwise specified:

- Non-flammable gasses including vacuum – 0.375" OD, ASTM B280 refrigeration copper with all joints made up using double ferrule instrument grade swage type fittings.
- Burning gas – 3/8" schedule 40 black pipe with threaded joints (USA), 0.375 type G copper with double ferrule swage fittings (Canada and overseas).
- Pure Water – 0.375" OD polypropylene with polypropylene compression fittings.

Counter Top Materials - Counter tops can be provided for hoods in either stainless steel (note limitations in liner section) or cast epoxy resin. Epoxy is most commonly selected due to its very broad chemical resistance.

Fume Hood Liner Materials - Fume hoods must have a liner appropriate to the task. For the vast majority of applications Mott recommends the fiberglass reinforced polyester (FRP) liner which provides excellent resistance to chemical and physical damage and is a Class A fire rated material with a flame spread rating below 25. In addition we provide other liner materials to suit specific applications including polyvinyl chloride (PVC) for Acid use and stainless steel for solvent and wet applications. It is important to keep the limitations of hood liners in mind when selecting materials. Stainless steel, for example, is never recommended for general acid use and is also vulnerable to chlorides.

FRP

- White color, excellent general purpose liner
- Good resistance to most solvents, bases and acids
- Low flame spread rating
- Strong structural strength

316 Stainless Steel Square Corners

- Resistant to solvents and bases
- Subject to attack by some acids
- High tolerance to flame and heat
- Excellent structural strength

OVERVIEW

316 Stainless Steel Rounded Corners

- Resistant to solvents and bases
- Subject to attack by some acids
- Recommended for radioisotope and perchloric acid applications
- High tolerance to flame and heat
- Excellent structural strength
- Excellent cleaning characteristics

Phenolic Resin

- White color
- Good resistance to most solvents, bases and acids
- Low flame spread rating
- Strong structural strength

Poly Vinyl Chloride (PVC)

- White color
- Excellent resistance to bases and acids
- Poor tolerance to flame and heat
- Strong structural strength

Epoxy Resin

- Off white color
- Excellent resistance to solvents, bases and acids
- Moderate tolerance to flame and heat
- Moderate structure strength

Exhaust Duct Connections - While most fume hood duct connections are round, please note that some fume hood models are designed with a rectangular duct connection to reduce turbulence inside the hood. If needed, an optional duct transition from rectangular to round can be ordered separately.

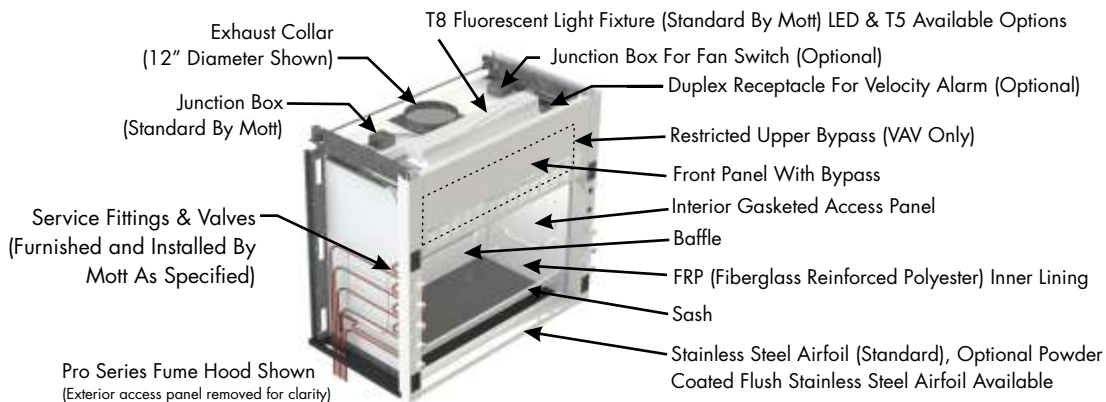
Exhaust Duct Materials - Particular attention should be paid to the exhaust ducting materials to ensure they are resistant to the chemicals which will be used in the lab. Common materials include: stainless steel, galvanized steel, polypropylene, polyethylene, PVC, and, fiberglass reinforced polyester. If the lab work will include extensive use of acids then uncoated galvanized or stainless steel should not be used.

Agency Approvals & Hood Certification - Fume hoods generally require agency approval in order to satisfy local authorities. Accordingly, Mott maintains a UL1805 classification to cover virtually all the standard and special fume hoods we produce. Most models are also CSA certified.

Fume Hood Positioning In The Lab - Fume Hood performance and safety is substantially dependent on the layout of the laboratory and particular attention should be paid to supply air grille location, fume hood location, and escape routes. In general, the laboratory layout and supply air conditions need to ensure that drafts in the area in front of the fume hood are maintained below 1/3 of the fume hood face velocity. In addition, attention should be paid to escape routes keeping in mind that the need to cross in front of a fume hood during an evacuation must be avoided.

Custom Hoods - Mott Manufacturing has provided countless custom and special fume hoods and we have the expertise to assist with solutions to unique fume hood situations.

Features Of A Typical Laboratory Chemical Hood



PRO BENCH - VERTICAL SASH

This general purpose fume hood is designed to meet most laboratory Constant Air Volume (CAV) or Variable Air Volume (VAV) requirements and supplied with an automatic compensating upper by-pass. For VAV, use option S2 for a restricted by-pass plate. Designed to mount on a 30" deep counter top. The Pro bench mounted fume hood is supplied with the following standard features:



Counterbalance Systems - Chain and sprocket system delivers the easiest and most reliable sash operation available with an exceptionally long life span. High quality stainless steel cable system provides economical and reliable operation; tested to 100,000 cycles with no failure.

Stainless Steel Airfoil - Aerodynamic raised design allows air to enter the fume hood even when the sash is closed ensuring efficient fume exhaust. Notches in both corners allow electrical wiring or tubing into the fume hood while still permitting full closure of the sash.

Sash Design - 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hood has a vertical sash. 30" viewing height.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to reduce duct transition costs, minimize static pressure losses and exhaust noise levels.

Electrical - Two UL/CSA approved duplex receptacles provided for 120 volt service, one on each corner post. UL/CSA approved fluorescent light fixture and switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Both corner posts are pre-punched to accept a maximum of five plumbing fittings per post. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Vertical Raising Sash (Cable Sash System)

Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor
36"	7121000	7123000	7126000	7124000	7125000
48"	7221000	7223000	7226000	7224000	7225000
60"	7321000	7323000	7326000	7324000	7325000
72"	7421000	7423000	7426000	7424000	7425000
96"	7521000	7523000	7526000	7524000	7525000
1000mm	7B21000	7B23000	7B26000	7B24000	7B25000
1513mm	7C21000	7C23000	7C26000	7C24000	7C25000
2000mm	7D21000	7D23000	7D26000	7D24000	7D25000

Vertical Raising Sash (Chain & Sprocket Sash System)

Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor
36"	7121040	7123040	7126040	7124040	7125040
48"	7221040	7223040	7226040	7224040	7225040
60"	7321040	7323040	7326040	7324040	7325040
72"	7421040	7423040	7426040	7424040	7425040
96"	7521040	7523040	7526040	7524040	7525040
1000mm	7B21040	7B23040	7B26040	7B24040	7B25040
1513mm	7C21040	7C23040	7C26040	7C24040	7C25040
2000mm	7D21040	7D23040	7D26040	7D24040	7D25040

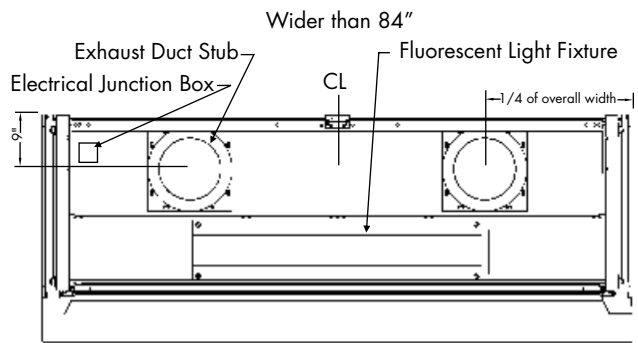
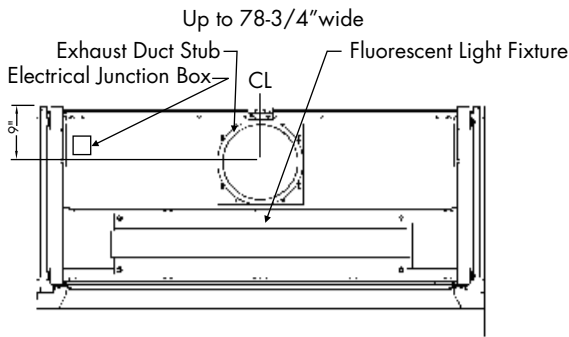
PRO BENCH - VERTICAL SASH

Exhaust Parameters

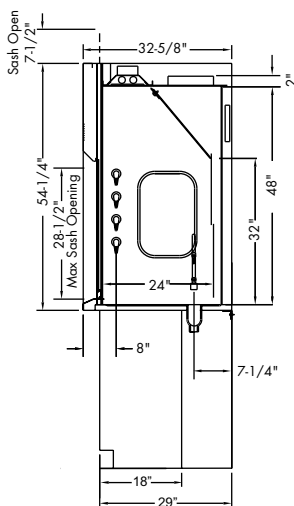
Hood Size	Duct Dia.	100 FPM 18" Max Sash Opening		100 FPM 28-1/2" Max* Sash Opening		80 FPM 18" Max Sash Opening		80 FPM 28-1/2" Max* Sash Opening	
		CFM	SP	CFM	SP	CFM	SP	CFM	SP
36"	10"	350	0.04	543	0.10	280	0.03	434	0.05
48"	10"	508	0.09	789	0.20	407	0.06	630	0.15
60"	12"	667	0.07	1035	0.20	533	0.05	830	0.15
72"	12"	825	0.11	1280	0.25	660	0.07	1025	0.20
96"	2@10"	1142	0.11	1772	0.25	913	0.07	1418	0.20
1000mm	10"	395	0.05	612	0.15	316	0.04	490	0.10
1513mm	12"	660	0.07	1025	0.20	528	0.05	820	0.15
2000mm	12"	914	0.14	1419	0.30	731	0.09	1135	0.20

* 28-1/2" max sash opening is recommended for set-up and tear down only.

Typical Roof Details



Side Section Details



PRO RESTRICTED BY-PASS BENCH - VERTICAL SASH

This general purpose fume hood is designed to meet most laboratory Variable Air Volume (VAV) requirements and supplied with a restricted upper by-pass. Designed to mount on a 30" deep counter top. The Pro bench mounted fume hood is supplied with the following standard features:



Counterbalance System - Chain and sprocket system delivers the easiest and most reliable sash operation available with an exceptionally long life span. High quality stainless steel cable system provides economical and reliable operation; tested to 100,000 cycles with no failure.

Stainless Steel Airfoil - Aerodynamic raised design allows air to enter the fume hood even when the sash is closed ensuring efficient fume exhaust. Notches in both corners allow electrical wiring or tubing into the fume hood while still permitting full closure of the sash.

Sash Design - 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hoods are supplied with a vertical rising sash. 30" viewing height.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to reduce duct transition costs, minimize static pressure losses and exhaust noise levels.

Electrical - Two UL/CSA approved duplex receptacles provided for 120 volt service, one on each corner post. UL/CSA approved fluorescent light fixture and switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Both corner posts are pre-punched to accept a maximum of five plumbing fittings per post. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Vertical Raising Sash (Cable Sash System)					
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor
36"	7121000-S2	7123000-S2	7126000-S2	7124000-S2	7125000-S2
48"	7221000-S2	7223000-S2	7226000-S2	7224000-S2	7225000-S2
60"	7321000-S2	7323000-S2	7326000-S2	7324000-S2	7325000-S2
72"	7421000-S2	7423000-S2	7426000-S2	7424000-S2	7425000-S2
96"	7521000-S2	7523000-S2	7526000-S2	7524000-S2	7525000-S2
1000mm	7B21000-S2	7B23000-S2	7B26000-S2	7B24000-S2	7B25000-S2
1513mm	7C21000-S2	7C23000-S2	7C26000-S2	7C24000-S2	7C25000-S2
2000mm	7D21000-S2	7D23000-S2	7D26000-S2	7D24000-S2	7D25000-S2

Vertical Raising Sash (Chain & Sprocket Sash System)					
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor
36"	7121040-S2	7123040-S2	7126040-S2	7124040-S2	7125040-S2
48"	7221040-S2	7223040-S2	7226040-S2	7224040-S2	7225040-S2
60"	7321040-S2	7323040-S2	7326040-S2	7324040-S2	7325040-S2
72"	7421040-S2	7423040-S2	7426040-S2	7424040-S2	7425040-S2
96"	7521040-S2	7523040-S2	7526040-S2	7524040-S2	7525040-S2
1000mm	7B21040-S2	7B23040-S2	7B26040-S2	7B24040-S2	7B25040-S2
1513mm	7C21040-S2	7C23040-S2	7C26040-S2	7C24040-S2	7C25040-S2
2000mm	7D21040-S2	7D23040-S2	7D26040-S2	7D24040-S2	7D25040-S2

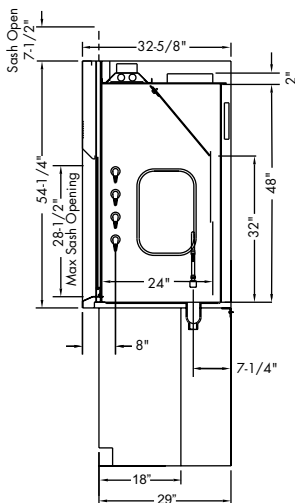
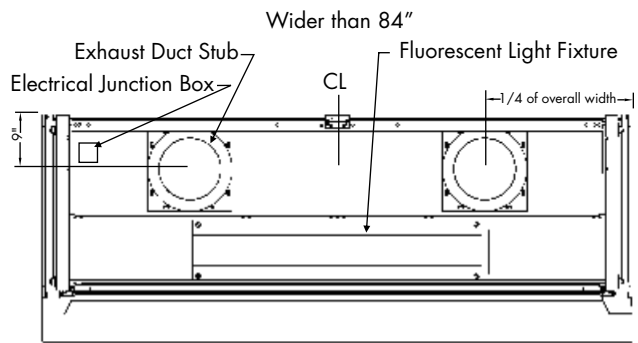
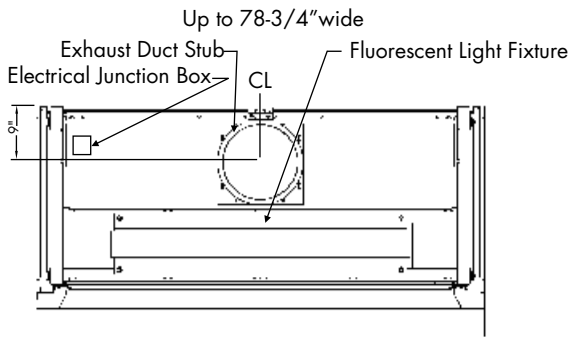
PRO RESTRICTED BY-PASS BENCH - VERTICAL SASH

Exhaust Parameters

Hood Size	Duct Dia.	100 FPM 18" Max Sash Opening		100 FPM 28-1/2" Max* Sash Opening		80 FPM 18" Max Sash Opening		80 FPM 28-1/2" Max* Sash Opening	
		CFM	SP	CFM	SP	CFM	SP	CFM	SP
36"	10"	350	0.04	543	0.10	280	0.03	434	0.05
48"	10"	508	0.09	789	0.20	407	0.06	630	0.15
60"	12"	667	0.07	1035	0.20	533	0.05	830	0.15
72"	12"	825	0.11	1280	0.25	660	0.07	1025	0.20
96"	2@10"	1142	0.11	1772	0.25	913	0.07	1418	0.20
1000mm	10"	395	0.05	612	0.15	316	0.04	490	0.10
1513mm	12"	660	0.07	1025	0.20	528	0.05	820	0.15
2000mm	12"	914	0.14	1419	0.30	731	0.09	1135	0.20

* 28-1/2" max sash opening is recommended for set-up and tear down only.

Typical Roof Details



PRO RESTRICTED BY-PASS BENCH WITH VISION PANEL - VERTICAL SASH

This general purpose fume hood is designed to meet most laboratory Variable Air Volume (VAV) requirements and supplied with a restricted upper by-pass. Designed to mount on a 30" deep counter top. The Pro bench mounted fume hood is supplied with the following standard features:



Counterbalance Systems - Chain and sprocket system delivers the easiest and most reliable sash operation available with an exceptionally long life span. High quality stainless steel cable system provides economical and reliable operation; tested to 100,000 cycles with no failure.

Stainless Steel Airfoil - Aerodynamic raised design allows air to enter the fume hood even when the sash is closed ensuring efficient fume exhaust. Notches in both corners allow electrical wiring or tubing into the fume hood while still permitting full closure of the sash.

Full Viewing Area - Provides a clear and unobstructed side to side view of fume hood interior. Rear mounted fixed tinted visor included. 44" viewing height.

Sash Design - 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hood has a vertical sash.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to reduce duct transition costs, minimize static pressure losses and exhaust noise levels.

Electrical - Two UL/CSA approved duplex receptacles provided for 120 volt service, one on each corner post. UL/CSA approved fluorescent light fixture and switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Both corner posts are pre-punched to accept a maximum of five plumbing fittings per post. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Vertical Raising Sash (Cable Sash System)

Width	FRP	PVC	Epoxy	316 S/S Sq. Cor
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36"	7151000	7153000	7156000	7154000
48"	7251000	7253000	7256000	7254000
60"	7351000	7353000	7356000	7354000
72"	7451000	7453000	7456000	7454000
96"	7551000	7553000	7556000	7554000
1000mm	7B51000	7B53000	7B56000	7B54000
1513mm	7C51000	7C53000	7C56000	7C54000
2000mm	7D51000	7D53000	7D56000	7D54000

Vertical Raising Sash (Chain & Sprocket Sash System)

Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor
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36"	7151040	7153040	7156040	7154040	7155040
48"	7251040	7253040	7256040	7254040	7255040
60"	7351040	7353040	7356040	7354040	7355040
72"	7451040	7453040	7456040	7454040	7455040
96"	7551040	7553040	7556040	7554040	7555040
1000mm	7B51040	7B53040	7B56040	7B54040	7B55040
1513mm	7C51040	7C53040	7C56040	7C54040	7C55040
2000mm	7D51040	7D53040	7D56040	7D54040	7D55040

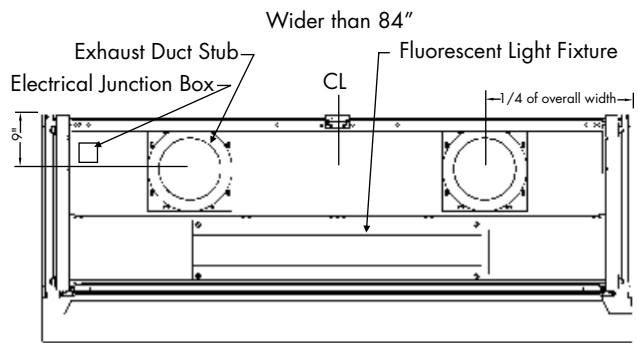
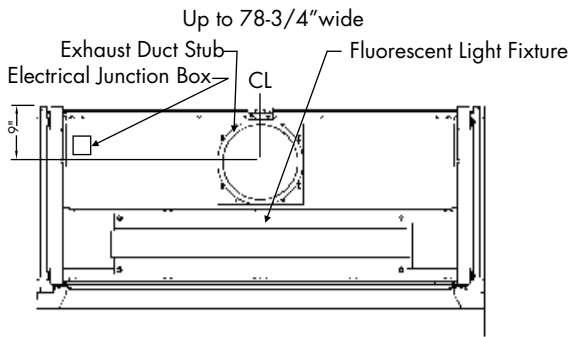
PRO RESTRICTED BY-PASS BENCH WITH VISION PANEL - VERTICAL SASH

Exhaust Parameters

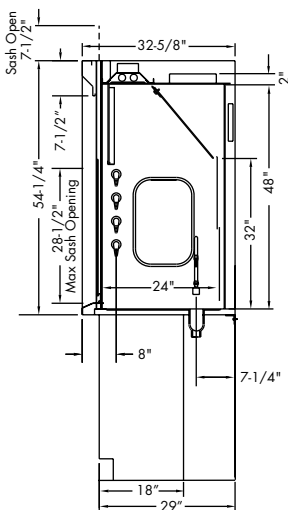
Hood Size	Duct Dia.	100 FPM 18" Max Sash Opening		100 FPM 28-1/2" Max* Sash Opening		80 FPM 18" Max Sash Opening		80 FPM 28-1/2" Max* Sash Opening	
		CFM	SP	CFM	SP	CFM	SP	CFM	SP
36"	10"	350	0.04	543	0.10	280	0.03	434	0.05
48"	10"	508	0.09	789	0.20	407	0.06	630	0.15
60"	12"	667	0.07	1035	0.20	533	0.05	830	0.15
72"	12"	825	0.11	1280	0.25	660	0.07	1025	0.20
96"	2@10"	1142	0.11	1772	0.25	913	0.07	1418	0.20
1000mm	10"	395	0.05	612	0.15	316	0.04	490	0.10
1513mm	12"	660	0.07	1025	0.20	528	0.05	820	0.15
2000mm	12"	914	0.14	1419	0.30	731	0.09	1135	0.20

* 28-1/2" max sash opening is recommended for set-up and tear down only.

Typical Roof Details



Side Section Details



PRO BENCH - COMBINATION SASH

This general purpose fume hood is designed to meet most laboratory Constant Air Volume (CAV) or Variable Air Volume (VAV) requirements and supplied with a restricted upper by-pass. Designed to mount on a 30" deep counter top. The Pro bench mounted fume hood is supplied with the following standard features:



Counterbalance System - Chain and sprocket system delivers the easiest and most reliable sash operation available with an exceptionally long life span. High quality stainless steel cable system provides economical and reliable operation; tested to 100,000 cycles with no failure.

Stainless Steel Airfoil - Aerodynamic raised design allows air to enter the fume hood even when the sash is closed ensuring efficient fume exhaust. Notches in both corners allow electrical wiring or tubing into the fume hood while still permitting full closure of the sash.

Sash Design - 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hoods are supplied with a combination vertical rising and horizontal sliding sashes. 30" viewing height.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to reduce duct transition costs, minimize static pressure losses and exhaust noise levels.

Electrical - Two UL/CSA approved duplex receptacles provided for 120 volt service, one on each corner post. UL/CSA approved fluorescent light fixture and switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Both corner posts are pre-punched to accept a maximum of five plumbing fittings per post. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Combination Sash (Cable Sash System)						Horizontal Glass Panels			
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor	Panel Width	Width Opening	Height Opening	# of Panels
48"	7221010	7223010	7226010	7224010	7225010	9-3/4"	16"	28"	4
60"	7321010	7323010	7326010	7324010	7325010	12-3/4"	22"	28"	4
72"	7421010	7423010	7426010	7424010	7425010	15-3/4"	28"	28"	4
96"	7521010	7523010	7526010	7524010	7525010	14-13/16"	38-7/8"	28"	6
1513mm	7C21010	7C23010	7C26010	7C24010	7C25010	12-5/8"	21-13/16"	28"	4
2000mm	7D21010	7D23010	7D26010	7D24010	7D25010	11-15/16"	30-1/4"	28"	6

Combination Sash (Chain & Sprocket Sash System)						Horizontal Glass Panels			
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor	Panel Width	Width Opening	Height Opening	# of Panels
48"	7221050	7223050	7226050	7224050	7225050	9-3/4"	16"	28"	4
60"	7321050	7323050	7326050	7324050	7325050	12-3/4"	22"	28"	4
72"	7421050	7423050	7426050	7424050	7425050	15-3/4"	28"	28"	4
96"	7521050	7523050	7526050	7524050	7525050	14-13/16"	38-7/8"	28"	6
1513mm	7C21050	7C23050	7C26050	7C24050	7C25050	12-5/8"	21-13/16"	28"	4
2000mm	7D21050	7D23050	7D26050	7D24050	7D25050	11-15/16"	30-1/4"	28"	6

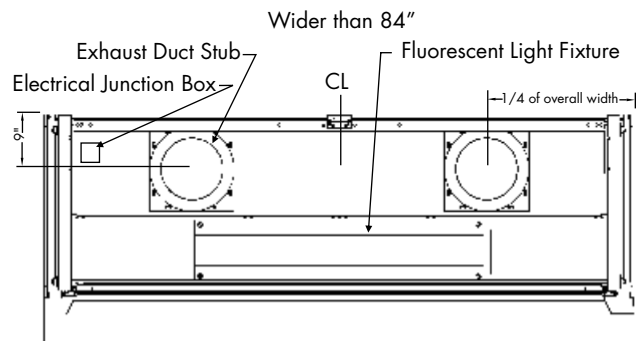
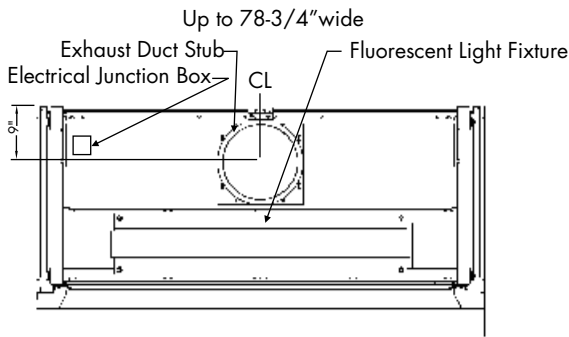
All dimensions and sizes shown are nominal. Specifications and details are based on product information at the time of printing and may change at any time without notice. Mott Manufacturing reserves the right to change dimensions, specifications and manufacturing details at any time without notice.

PRO BENCH - COMBINATION SASH

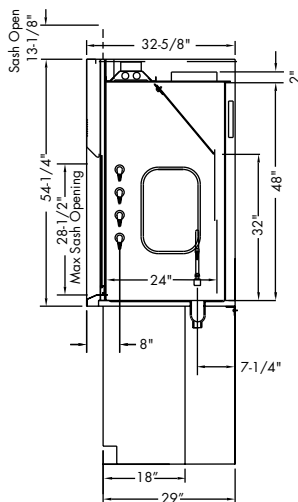
Exhaust Parameters

Hood Size	Duct Dia.	100 FPM 18" Max Sash Opening		100 FPM 1/2" Sliding Door Open		80 FPM 18" Max Sash Opening		80 FPM 1/2" Sliding Door Open	
		CFM	SP	CFM	SP	CFM	SP	CFM	SP
48"	10"	508	0.09	394	0.05	407	0.06	315	0.05
60"	12"	667	0.07	517	0.05	533	0.05	414	0.05
72"	12"	825	0.11	640	0.10	660	0.07	512	0.05
96"	2@10"	1142	0.11	886	0.10	913	0.07	709	0.05
1513mm	12"	660	0.07	513	0.10	528	0.05	410	0.05
2000mm	12"	914	0.14	709	0.10	731	0.09	567	0.05

Typical Roof Details



Side Section Details



PRO CONSTANT VOLUME BENCH - SPLIT SASH/POSTLESS

This general purpose fume hood is designed to meet most laboratory Constant Air Volume (CAV) or Variable Air Volume (VAV) requirements and supplied with an automatic compensating upper by-pass. For VAV, use option S2 for a restricted by-pass plate. Designed to mount on a 30" deep counter top. The Pro bench mounted fume hood is supplied with the following standard features:



Counterbalance Systems - Chain and sprocket system delivers the easiest and most reliable sash operation available with an exceptionally long life span. High quality stainless steel cable system provides economical and reliable operation; tested to 100,000 cycles with no failure.

Stainless Steel Airfoil - Aerodynamic raised design allows air to enter the fume hood even when the sash is closed ensuring efficient fume exhaust. Notches in both corners allow electrical wiring or tubing into the fume hood while still permitting full closure of the sash.

Sash Design - 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hood is supplied with two independently operated vertical rising sashes. 30" viewing height.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to reduce duct transition costs, minimize static pressure losses and exhaust noise levels.

Electrical - Two UL/CSA approved duplex receptacles provided for 120 volt service, one on each corner post. UL/CSA approved fluorescent light fixture and switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Both corner posts are pre-punched to accept a maximum of five plumbing fittings per post. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Vertical Raising Split Postless Sash (Cable Sash System)					
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor
72"	7421030	7423030	7426030	7424030	7425030
96"	7521030	7523030	7526030	7524030	7525030
120"	7621030	7623030	7626030	7624030	7625030
144"	7H21030	7H23030	7H26030	7H24030	7H25030
2000mm	7D21030	7D23030	7D26030	7D24030	7D25030

Vertical Raising Split Postless Sash (Chain & Sprocket Sash System)					
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor
96"	7521080	7523080	7526080	7524080	7525080
120"	7621080	7623080	7626080	7624080	7625080
144"	7H21080	7H23080	7H26080	7H24080	7H25080
2000mm	7D21080	7D23080	7D26080	7D24080	7D25080

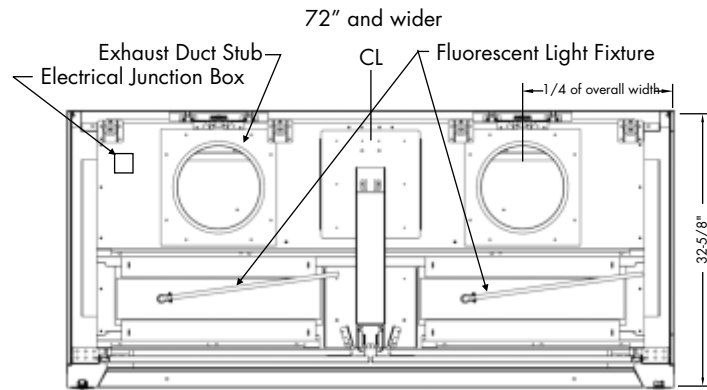
PRO CONSTANT VOLUME BENCH - SPLIT SASH/POSTLESS

Exhaust Parameters

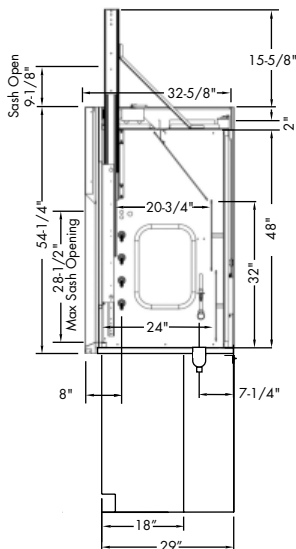
Hood Size	Duct Dia.	100 FPM 18" Max Sash Opening		100 FPM 28-1/2" Max* Sash Opening		80 FPM 18" Max Sash Opening		80 FPM 28-1/2" Max* Sash Opening	
		CFM	SP	CFM	SP	CFM	SP	CFM	SP
72"	2@10"	825	0.06	1280	0.15	660	0.05	1025	0.10
96"	2@10"	1142	0.11	1772	0.25	913	0.07	1418	0.20
120"	2@10"	1458	0.09	2264	0.20	1167	0.06	1811	0.15
140"	2@10"	1775	0.13	2755	0.30	1420	0.08	2205	0.20
2000mm	2@10"	914	0.07	1419	0.17	731	0.05	1135	0.11

* 28-1/2" max sash opening is recommended for set-up and tear down only.

Typical Roof Details



Side Section Details



NOVAGUARD™ BENCH - VERTICAL SASH

Designed to deliver competitive containment performance and energy efficiency. The NovaGuard™ operates with exhaust volumes significantly lower than conventional hoods. Providing the operator with a secure and reliable operation environment while providing considerable capital and operating cost savings. Suitable for Constant Air Volume (CAV) and Variable Air Volume (VAV) requirements. The NovaGuard™ bench mounted fume hood is supplied with the following standard features:



Face Velocities - Tested to both standard and modified ASHRAE procedures at face velocities as low as 50 fpm fully open.

Baffle Design - Downflow rear baffle is biased to the bottom, drawing fumes downward away from the user and counteracts the normal upward flow of vapors and prevents contaminated air build up behind the closed sash.

Exhaust System - Suitable for use in either Variable Volume or Constant Volume applications.

Chain Drive Sash - Chain and sprocket mechanism that delivers the easiest and most reliable sash operation available with an exceptionally long life span.

Full Viewing Area - Provides a clear and unobstructed side to side view of fume hood interior, with a 44-1/2" high viewing area. Rear mounted fixed tinted visor included.

Self-Lowering Sash System - Sash latch temporarily secures the sash in the full open position for setup and tear down operations. When the lock is freed, the sash automatically returns to the 18" open operational position which offers extra protection to the operator and helps reduce energy consumption. Below 18" the sash is equally balanced.

Flush Sill Airfoil - Low-profile hinged Type 316 powder coated stainless steel airfoil is flush with work surface to provide ergonomic and unobstructed access to the interior. Power cords can be run through the sill to the electrical outlets on the hood posts.

Spill Trough - Designed to provide secondary containment in the event a spill escapes the primary containment work top.

Electrical and Plumbing - Two UL/CSA approved duplex receptacles provided for 120 volt service. Built-in LED lighting and a corner post mounted UL/CSA approved switch provided. Fixture holes are not pre-punched and punched only as ordered (front post can accept five fixtures per side). Factory pre-plumbing is an available option as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Removable Panels - Side panels are easily removed to access interior electrical or plumbing fixtures.

Stainless Steel Exhaust Collar - Wide rectangular exhaust duct connection improves airflow distribution across hood width.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110-2016. Test results available upon request.

Vertical Raising Sash (Chain & Sprocket Sash System)					
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor
48"	72A1040	72A3040	72A6040	72A4040	72A5040
60"	73A1040	73A3040	73A6040	73A4040	73A5040
72"	74A1040	74A3040	74A6040	74A4040	74A5040
96"	75A1040	75A3040	75A6040	75A4040	74A5040

Exhaust Transition		
Width	Item Number	Duct Dia.
48"	EXT0036	10"
60"	EXT0036	10"
72"	EXT0036	10"
96"	EXT2336	12"

Exhaust Transition

- Fits over exhaust collar on NovaGuard™ hoods.
- Exhaust transitions (rectangular duct to round duct) are available in 18 gauge, type 316 stainless steel or powder coated galvanized steel and fits over vent collar.
- Base size 3" x 36".

NOVAGUARD™ BENCH - VERTICAL SASH

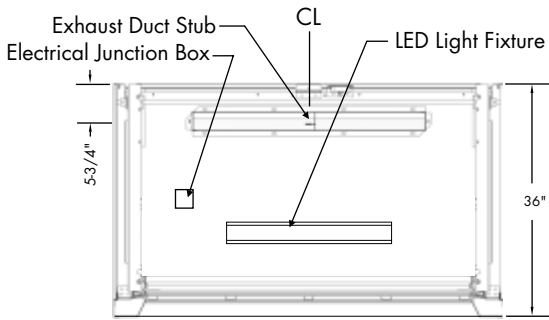
Exhaust Parameters

Hood Size	Duct Size	80 FPM 18" Max Sash Opening		80 FPM 28-1/2" Max*		60 FPM 18" Max Sash Opening		60 FPM 28-1/2" Max*		50 FPM 18" Max Sash Opening		50 FPM 28-1/2" Max*	
		CFM	SP**	CFM	SP**	CFM	SP**	CFM	SP**	CFM	SP**	CFM	SP**
48"	3" x 36"	385	0.05	610	0.07	289	0.04	457	0.06	241	0.03	381	0.05
60"	3" x 36"	505	0.05	800	0.11	379	0.04	600	0.06	316	0.03	500	0.05
72"	3" x 36"	625	0.07	990	0.17	469	0.04	742	0.10	391	0.03	618	0.07
96"	3" x 36"	865	0.13	1370	0.33	649	0.07	1027	0.19	541	0.05	856	0.13

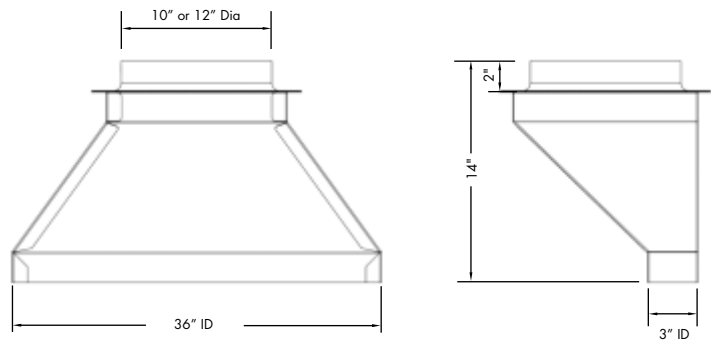
*28-1/2" max sash opening is recommended for set-up and tear down only.

** Does not include transition.

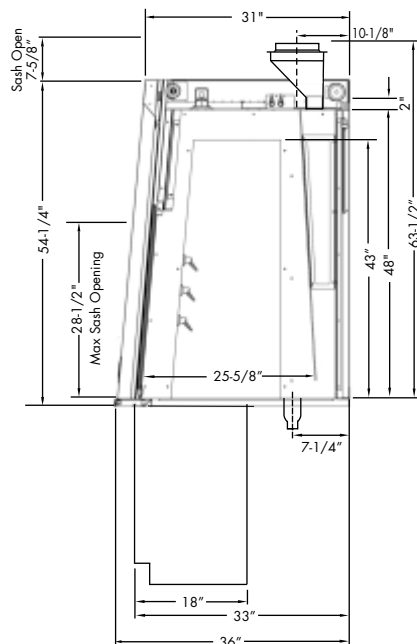
Typical Roof Details



Optional Exhaust Transition Details



Side Section Details



Side Window Option



WL - Glass end panels on left side - replaces solid end panel on left

WR - Glass end panel on right side - replaces solid end panel on right

WB - Glass end panels on both sides - replaces both solid end panels

Alcove Shelving Option



Alcove Shelving: Type 316, powder coated, perforated stainless steel

ASL - Alcove shelf on left side
ASR - Alcove shelf on right side
ASB - Alcove shelf on both sides

Note: Depending on shelf position, available plumbing service locations will be reduced. Contact Mott for details.

RFV2™ BENCH - VERTICAL SASH

Designed to deliver competitive containment performance and energy efficiency. The RFV2™ operates with exhaust volumes significantly lower than conventional fume hoods. Providing the fume hood operator with a secure and reliable operation environment while providing considerable capital and operating cost savings. Suitable for Constant Air Volume (CAV) and Variable Air Volume (VAV) requirements. The RFV2™ bench mounted fume hood is supplied with the following standard features:



Face Velocities - Tested to both standard and modified ASHRAE procedures at face velocities as low as 50 fpm.

Baffle Design - Downflow rear baffle is biased to the bottom, drawing fumes downward away from the user and counteracts the normal upward flow of vapors and prevents contaminated air build up behind the closed sash. Supplementary mechanical fans not required.

Chain Drive Sash - Chain and sprocket mechanism that delivers the easiest and most reliable sash operation available with an exceptionally long life span.

Full Viewing Sash - Provides a clear and unobstructed side to side view of fume hood interior, with a 34" high viewing area. 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications.

Performance Sash Handle - Powder coated stainless steel handle incorporates an airfoil design and provides improved airflow along the lower edge of the sash to prevent turbulence from resulting in a hazardous release.

Self-Lowering Sash System - Sash latch temporarily secures the sash in the full open position for setup and tear down operations. When the lock is freed, the sash automatically returns to the 18" open operational position which offers extra protection to the operator and helps reduce energy consumption. Below 18" the sash is equally balanced.

Flush Sill Airfoil - Low-profile hinged type 316 powder coated stainless steel airfoil is flush with work surface to provide ergonomic and unobstructed access to the interior.

Spill Trough - Designed to provide secondary containment in the event a spill escapes the primary containment work top.

Electrical - Two UL/CSA approved duplex receptacles provided for 120 volt service. UL/CSA approved fluorescent light fixture and switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Front post is pre-punched to accept four fixtures per side. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Stainless Steel Exhaust Collar - Wide rectangular exhaust duct connection improves airflow distribution across hood width.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Vertical Raising Sash (Chain & Sprocket Sash System)					
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor
48"	72F1040	72F3040	72F6040	72F4040	72F5040
60"	73F1040	73F3040	73F6040	73F4040	73F5040
72"	74F1040	74F3040	74F6040	74F4040	74F5040
96"	75F1040	75F3040	75F6040	75F4040	75F5040

Exhaust Transition		
Width	Item Number	Duct Dia.
48"	EXT0036	10"
60"	EXT0036	10"
72"	EXT0036	10"
96"	EXT2336	12"

Exhaust Transition

- Fits over vent collar on RFV2™ fume hoods.
- Exhaust transitions (rectangular duct to round duct) are available in 18 gauge, type 316 stainless steel or powder coated galvanized steel and fits over vent collar.
- Base Size 3" x 36".

RFV2™ BENCH - VERTICAL SASH

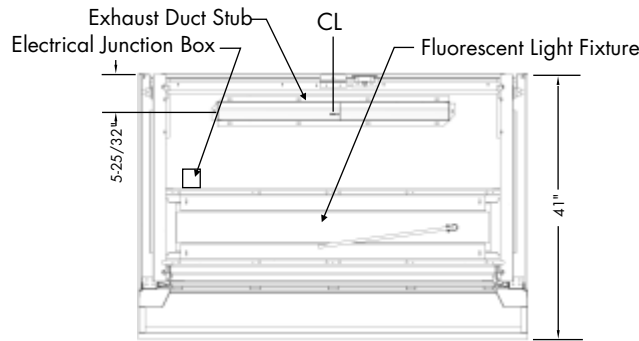
Exhaust Parameters

Hood Size	Duct Size	60 FPM 18" Max Sash Opening		60 FPM 28-1/2" Max* Sash Opening		50 FPM 18" Max Sash Opening		50 FPM 28-1/2" Max* Sash Opening	
		CFM	SP*	CFM	SP**	CFM	SP*	CFM	SP**
48"	3" x 36"	289	0.02	457	0.05	241	0.03	381	0.05
60"	3" x 36"	379	0.03	600	0.07	316	0.03	500	0.05
72"	3" x 36"	469	0.04	742	0.10	391	0.03	618	0.07
96"	3" x 36"	649	0.08	1027	0.20	541	0.05	856	0.13

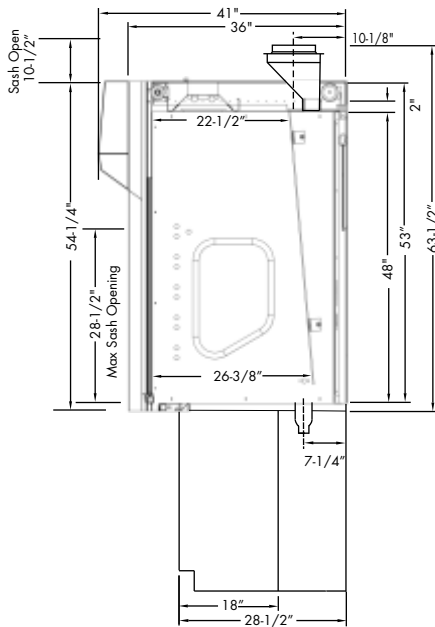
*28-1/2" max sash opening is recommended for set-up and tear down only.

** Does not include transition.

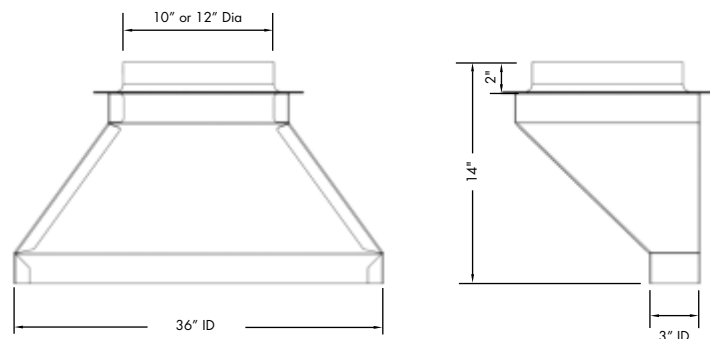
Typical Roof Details



Side Section Details

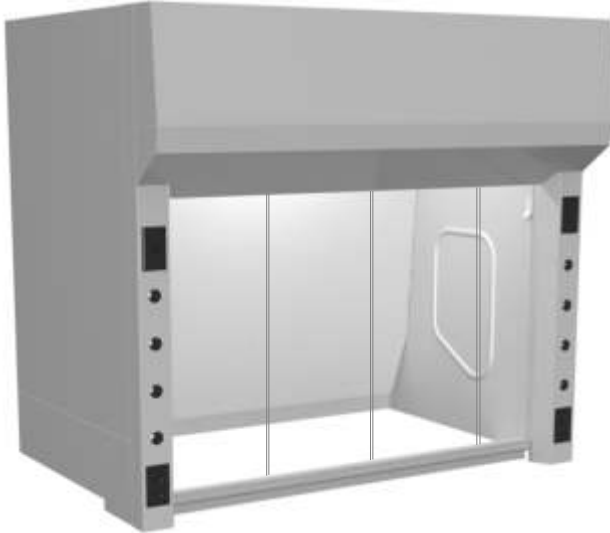


Optional Exhaust Transition Details



RFV2™ BENCH - COMBINATION SASH

Designed to deliver competitive containment performance and energy efficiency. The RFV2™ operates with exhaust volumes significantly lower than conventional fume hoods. Providing the fume hood operator with a secure and reliable operation environment while providing considerable capital and operating cost savings. Suitable for Constant Air Volume (CAV) and Variable Air Volume (VAV) requirements. The RFV2™ bench mounted fume hood is supplied with the following standard features:



Face Velocities - Tested to both standard and modified ASHRAE procedures at face velocities as low as 50 fpm.

Baffle Design - Downflow rear baffle is biased to the bottom, drawing fumes downward away from the user and counteracts the normal upward flow of vapors and prevents contaminated air build up behind the closed sash. Supplementary mechanical fans not required.

Full Viewing Sash - Provides a clear and unobstructed side to side view of fume hood interior, with a 34" high viewing area. 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hoods are supplied with a combination vertical rising and horizontal sliding sashes.

Chain Drive Sash - Chain and sprocket mechanism that delivers the easiest and most reliable sash operation available with an exceptionally long life span.

Performance Sash Handle - Powder coated stainless steel handle incorporates an airfoil design and provides improved airflow along the lower edge of the sash to prevent turbulence from resulting in a hazardous release.

Self-Lowering Sash System - Sash latch temporarily secures the sash in the full open position for setup and tear down operations. When the lock is freed, the sash automatically returns to the 18" open operational position which offers extra protection to the operator and helps reduce energy consumption. Below 18" the sash is equally balanced.

Flush Sill Airfoil - Low-profile hinged type 316 powder coated stainless steel airfoil is flush with work surface to provide ergonomic and unobstructed access to the interior.

Spill Trough - Designed to provide secondary containment in the event a spill escapes the primary containment work top.

Electrical - Two UL/CSA approved duplex receptacles provided for 120 volt service. UL/CSA approved fluorescent light fixture and switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Front post is pre-punched to accept four fixtures per side. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Stainless Steel Exhaust Collar - Wide rectangular exhaust duct connection improves airflow distribution across hood width.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Combination Sash (Chain & Sprocket Sash System)						Horizontal Glass Panels			
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor	Panel Width	Width Opening	Height Opening	# of Panels
48"	72F1050	72F3050	72F6050	72F4050	72F5050	9-3/4"	16"	32"	4
60"	73F1050	73F3050	73F6050	73F4050	73F5050	12-3/4"	22"	32"	4
72"	74F1050	74F3050	74F6050	74F4050	74F5050	15-3/4"	28"	32"	4
96"	75F1050	75F3050	75F6050	75F4050	75F5050	14-13/16"	38-7/8"	32"	6

Exhaust Transition		
Width	Item Number	Duct Dia.
48"	EXT0036	10"
60"	EXT0036	10"
72"	EXT0036	10"
96"	EXT2336	12"

Exhaust Transition

- Fits over vent collar on RFV2™ fume hoods.
- Exhaust transitions (rectangular duct to round duct) are available in 18 gauge, type 316 stainless steel or powder coated galvanized steel and fits over vent collar.
- Base Size 3" x 36".

RFV2™ BENCH - COMBINATION SASH

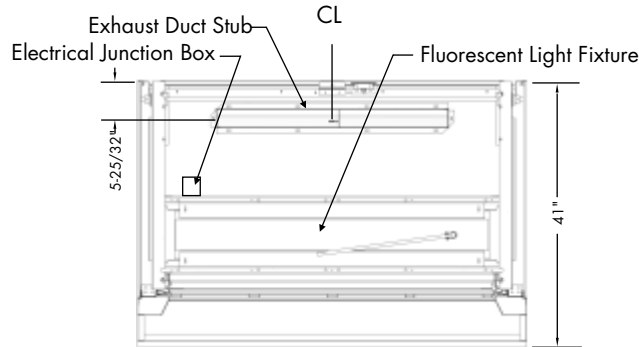
Exhaust Parameters

Hood Size	Duct Size	100 FPM Sash Open Horizontally Only		60 FPM 28-1/2" Max* Sash Opening		60 FPM Sash Open Horizontally Only		60 FPM 18" Max Sash Opening	
		CFM	SP*	CFM	SP**	CFM	SP*	CFM	SP**
48"	3" x 36"	457	0.05	457	0.05	289	0.02	289	0.02
60"	3" x 36"	600	0.07	600	0.07	379	0.03	379	0.03
72"	3" x 36"	742	0.10	742	0.10	469	0.04	469	0.04
96"	3" x 36"	1027	0.20	1027	0.20	649	0.08	649	0.08

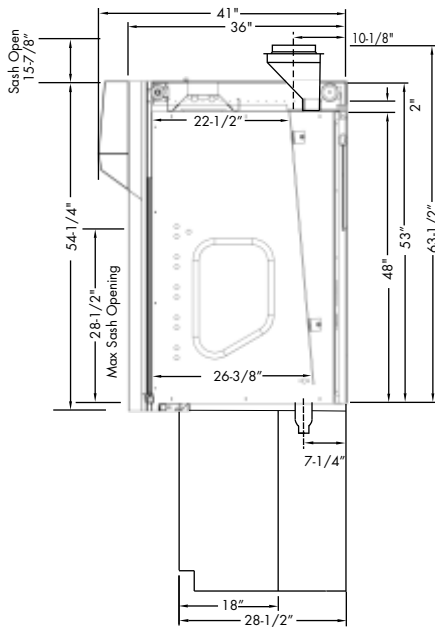
*28-1/2" max sash opening is recommended for set-up and tear down only.

** Does not include transition.

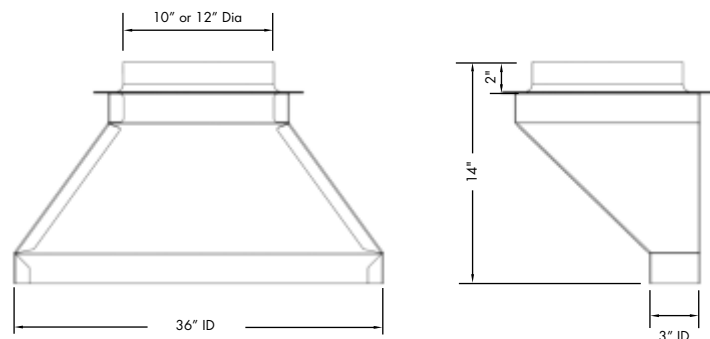
Typical Roof Details



Side Section Details



Optional Exhaust Transition Details



SAFEGUARD™ BENCH - VERTICAL SASH

The SafeGuard™ fume hood was developed to meet the challenging safety, energy conservation, and operational requirements of today's laboratory. Designed for 60-100 feet per minute face velocities, this hood is suitable for use in either Constant Air Volume (CAV) or Variable Air Volume (VAV) requirements. The SafeGuard™ bench mounted fume hood is supplied with the following standard features.



Downflow Upper By-Pass - In CAV configurations, air flows through the downwardly directed by-pass preventing contaminated air build up behind the closed sash.

Chain Drive Sash - Chain and sprocket mechanism that delivers the easiest and most reliable sash operation available with an exceptionally long life span.

Exhaust System - Restricted upper by-pass is optional for VAV use.

Fixed Baffle Area - The baffle system needs no adjustment and improves airflow through the fume hood.

Full Viewing Sash - Provides a clear and unobstructed side to side view of fume hood interior, with a 34" high viewing area. Hoods are supplied with a vertical rising sash and rear mounted visor.

Self-Lowering Sash System - Sash latch temporarily secures the sash in the full open position for setup and tear down operations. When the lock is freed, the sash automatically returns to the 18" open operational position offering extra protection to the operator and helps reduce energy consumption. Below 18", sash is equally balanced.

Flush Sill Airfoil - Low-profile hinged Type 316 stainless steel airfoil is flush with work surface to provide ergonomic and unobstructed access to the interior. Power cords can be run through the sill to the electrical outlets on the hood posts.

Spill Trough - Designed to provide secondary containment in the event a spill escapes the primary containment work top.

Electrical - Two UL/CSA approved duplex receptacles provided for 120 volt service. UL/CSA approved fluorescent light fixture complete with bulbs that provide a minimum work surface luminescence of 80 foot candles and a corner post mounted UL/CSA approved switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Front post is pre-punched to accept four fixtures per side. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Front and side panels are easily removed to access interior electrical or plumbing fixtures. Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber.

Stainless Steel Exhaust Collar - Wide round exhaust duct connection improves airflow distribution across the hood width.

Approvals & ASHRAE - UL 1805 Classified. Meets all ASHRAE 110 Standards; test results available upon request.

32-5/8" Vertical Raising Sash (Chain & Sprocket Sash System)					
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor
48"	7271040	7273040	7276040	7274040	7275040
60"	7371040	7373040	7376040	7374040	7375040
72"	7471040	7473040	7476040	7474040	7475040
96"	7571040	7573040	7576040	7574040	7575040

38-5/8" Vertical Raising Sash (Chain & Sprocket Sash System)					
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor
48"	7271040-ED	7273040-ED	7276040-ED	7274040-ED	7275040-ED
60"	7371040-ED	7373040-ED	7376040-ED	7374040-ED	7375040-ED
72"	7471040-ED	7473040-ED	7476040-ED	7474040-ED	7475040-ED
96"	7571040-ED	7573040-ED	7576040-ED	7574040-ED	7575040-ED

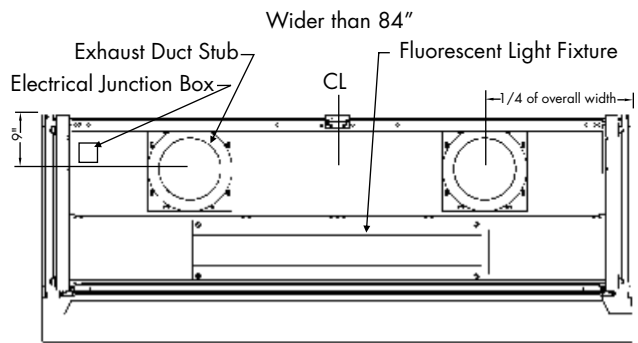
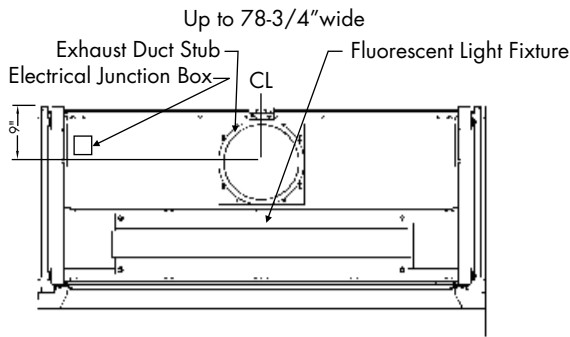
SAFEGUARD™ BENCH - VERTICAL SASH

Exhaust Parameters

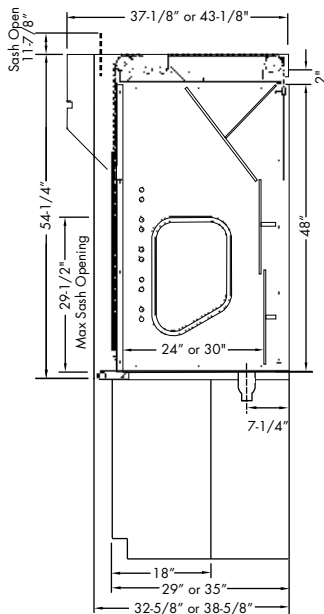
Hood Size	Duct Dia.	100 FPM 18" Max Sash Opening		80 FPM 18" Max Sash Opening		60 FPM 29-1/2" Max* Sash Opening	
		CFM	SP	CFM	SP	CFM	SP
48"	10"	481	0.08	385	0.05	481	0.08
60"	12"	631	0.07	505	0.04	631	0.07
72"	12"	781	0.10	625	0.06	781	0.10
96"	2@10"	1082	0.10	865	0.06	1082	0.10

* 29-1/2" max sash opening is recommended for set-up and tear down only.

Typical Roof Details



Side Section Details



SAFEGUARD™ BENCH - COMBINATION SASH

The SafeGuard™ fume hood was developed to meet the challenging safety, energy conservation, and operational requirements of today's laboratory. Designed for 60-100 feet per minute face velocities, this hood is suitable for use in either Constant Air Volume (CAV) or Variable Air Volume (VAV) requirements. The SafeGuard™ bench mounted fume hood is supplied with the following standard features.



Downflow Upper By-Pass - In CAV configurations, air flows through the downwardly directed by-pass preventing contaminated air build up behind the closed sash.

Chain Drive Sash - Chain and sprocket mechanism that delivers the easiest and most reliable sash operation available with an exceptionally long life span.

Combination Sash - Top hung combination sash operates smoothly while offering increased visibility with its reduced frame profile.

Full Viewing Area - Provides a clear and unobstructed side to side view of fume hood interior, with a 34" high viewing area. Rear mounted visor included.

Self-Lowering Sash System - Sash latch temporarily secures the sash in the full open position for setup and tear down operations. When the lock is freed, the sash automatically returns to the 18" open operational position which offers extra protection to the operator and helps reduce energy consumption. Below 18" the sash is equally balanced.

Fixed Baffle System - The baffle system needs no adjustment and improves airflow through the fume hood.

Exhaust System - Restricted upper by-pass is standard.

Flush Sill Airfoil - Low-profile hinged Type 316 stainless steel airfoil is flush with work surface to provide ergonomic and unobstructed access to the interior. Power cords can be run through the sill to the electrical outlets on the hood posts.

Spill Trough - Designed to provide secondary containment in the event a spill escapes the primary containment work top.

Electrical - Two UL/CSA approved duplex receptacles provided for 120 volt service. UL/CSA approved fluorescent light fixture complete with bulbs that provide a minimum work surface luminescence of 80 foot candles and a corner post mounted UL/CSA approved switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Front post is pre-punched to accept four fixtures per side. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Front and side panels are easily removed to access interior electrical or plumbing fixtures. Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber.

Stainless Steel Exhaust Collar - Wide round exhaust duct connection improves airflow distribution across the hood width.

Approvals & ASHRAE - UL 1805 Classified. Meets all ASHRAE 110 Standards; test results available upon request.

32-5/8" Deep Combination Sash (Chain & Sprocket Sash System)						Horizontal Glass Panels			
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor	Panel Width	Width Opening	Height Opening	# of Panels
48"	7271050	7273050	7276050	7274050	7275050	9-3/4"	16"	29"	4
60"	7371050	7373050	7376050	7374050	7375050	12-3/4"	22"	29"	4
72"	7471050	7473050	7476050	7474050	7475050	15-3/4"	28"	29"	4
96"	7571050	7573050	7576050	7574050	7575050	14-13/16"	38-7/8"	29"	6

38-5/8" Deep Combination Sash (Chain & Sprocket Sash System)						Horizontal Glass Panels			
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor	Panel Width	Width Opening	Height Opening	# of Panels
48"	7271050-ED	7273050-ED	7276050-ED	7274050-ED	7275050-ED	9-3/4"	16"	29"	4
60"	7371050-ED	7373050-ED	7376050-ED	7374050-ED	7375050-ED	12-3/4"	22"	29"	4
72"	7471050-ED	7473050-ED	7476050-ED	7474050-ED	7475050-ED	15-3/4"	28"	29"	4
96"	7571050-ED	7573050-ED	7576050-ED	7574050-ED	7575050-ED	14-13/16"	38-7/8"	29"	6

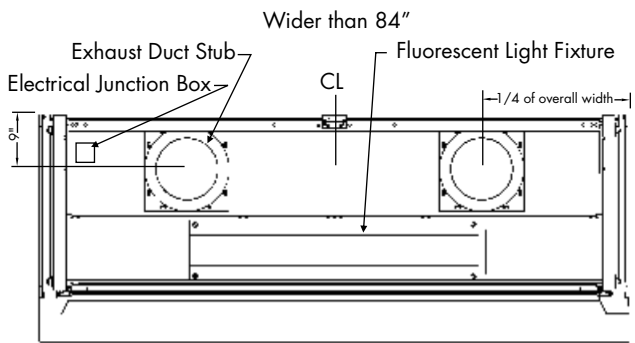
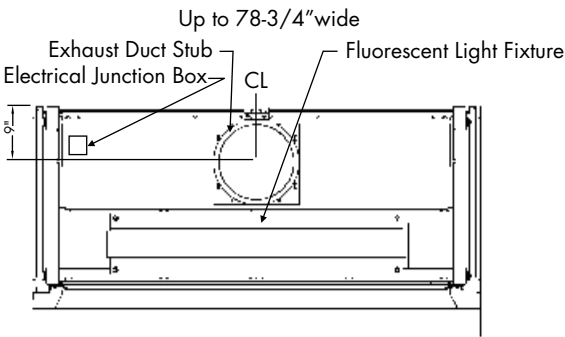
SAFEGUARD™ BENCH - COMBINATION SASH

Exhaust Parameters

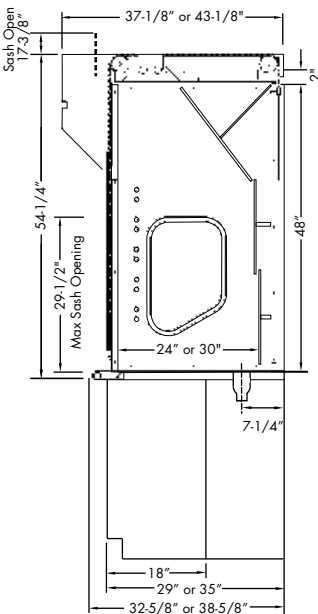
Hood Size	Duct Dia.	100FPM 18" Max Sash Opening		100 FPM Combo Sash Open Horizontally		80 FPM 18" Max Sash Opening		80 FPM Combo Sash Open Horizontally		60 FPM 29-1/2" Max* Sash Opening	
		CFM	SP	CFM	SP	CFM	SP	CFM	SP	CFM	SP
48"	10"	481	0.08	376	0.05	385	0.05	305	0.03	481	0.08
60"	12"	631	0.07	495	0.04	505	0.04	400	0.03	631	0.07
72"	12"	781	0.10	613	0.06	625	0.06	495	0.04	781	0.10
96"	2@10"	1082	0.10	856	0.06	865	0.06	685	0.04	1082	0.10

* 29-1/2" max sash opening is recommended for set-up and tear down only.

Typical Roof Details



Side Section Details



All dimensions and sizes shown are nominal. Specifications and details are based on product information at the time of printing and may change at any time without notice. Mott Manufacturing reserves the right to change dimensions, specifications and manufacturing details at any time without notice.

PRO LOW VOLUME BENCH - COMBINATION SASH

This low flow hood is designed to be used on a Low Constant Volume (LCV) system and supplied with restricted upper by-pass. Designed to mount on a 30" deep counter top. The Pro bench mounted fume hood is supplied with the following standard features all which reduces air (energy) consumption by approximately 75%:



Counterbalance System - Chain and sprocket system delivers the easiest and most reliable sash operation available with an exceptionally long life span. High quality stainless steel cable system provides economical and reliable operation; tested to 100,000 cycles with no failure.

Stainless Steel Airfoil - Aerodynamic raised design allows air to enter the fume hood even when the sash is closed ensuring efficient fume exhaust. Notches in both corners allow electrical wiring or tubing into the fume hood while still permitting full closure of the sash.

Sash Design - 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hoods are supplied with a combination vertical rising and horizontal sliding sashes with keyed lock down mechanism. Laminated safety glass shield integral to the sash. 30" viewing height.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to minimize static pressure losses and exhaust noise levels.

Electrical - Two UL/CSA approved duplex receptacles provided for 120 volt service, one on each corner post. UL/CSA approved fluorescent light fixture and switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Both corner posts are pre-punched to accept a maximum of five plumbing fittings per post. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Combination Sash (Cable Sash System)						Horizontal Glass Panels			
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor	Panel Width	Width Opening	Height Opening	# of Panels
48"	7221010-LV	7223010-LV	7226010-LV	7224010-LV	7225010-LV	9-3/4"	16"	17"	4
60"	7321010-LV	7323010-LV	7326010-LV	7324010-LV	7325010-LV	12-3/4"	22"	17"	4
72"	7421010-LV	7423010-LV	7426010-LV	7424010-LV	7425010-LV	15-3/4"	28"	17"	4
96"	7521010-LV	7523010-LV	7526010-LV	7524010-LV	7525010-LV	14-13/16"	38-7/8"	17"	6
1513mm	7C21010-LV	7C23010-LV	7C26010-LV	7C24010-LV	7C25010-LV	12-5/8"	21-13/16"	17"	4
2000mm	7D21010-LV	7D23010-LV	7D26010-LV	7D24010-LV	7D25010-LV	11-15/16"	30-1/4"	17"	6

Combination Sash (Chain & Sprocket Sash System)						Horizontal Glass Panels			
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor	Panel Width	Width Opening	Height Opening	# of Panels
48"	7221050-LV	7223050-LV	7226050-LV	7224050-LV	7225050-LV	9-3/4"	16"	17"	4
60"	7321050-LV	7323050-LV	7326050-LV	7324050-LV	7325050-LV	12-3/4"	22"	17"	4
72"	7421050-LV	7423050-LV	7426050-LV	7424050-LV	7425050-LV	15-3/4"	28"	17"	4
96"	7521050-LV	7523050-LV	7526050-LV	7524050-LV	7525050-LV	14-13/16"	38-7/8"	17"	6
1513mm	7C21050-LV	7C23050-LV	7C26050-LV	7C24050-LV	7C25050-LV	12-5/8"	21-13/16"	17"	4
2000mm	7D21050-LV	7D23050-LV	7D26050-LV	7D24050-LV	7D25050-LV	11-15/16"	30-1/4"	17"	6

All dimensions and sizes shown are nominal. Specifications and details are based on product information at the time of printing and may change at any time without notice. Mott Manufacturing reserves the right to change dimensions, specifications and manufacturing details at any time without notice.

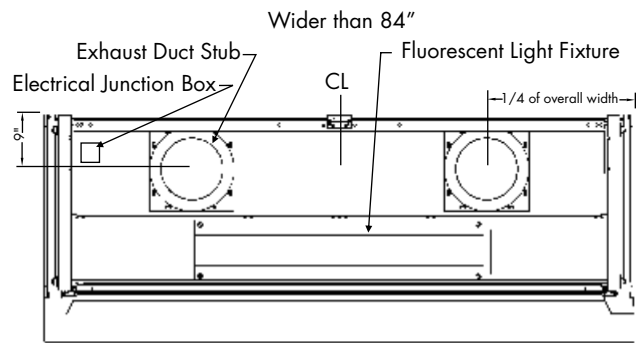
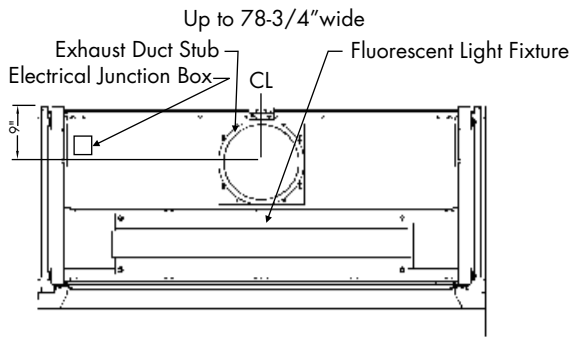
PRO LOW VOLUME BENCH - COMBINATION SASH

Exhaust Parameters

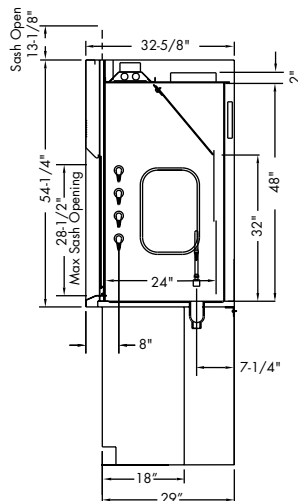
Hood Size	Duct Dia.	100 FPM Working Position Sash (Locked Down)	
		CFM	SP
48"	10"	190	0.02
60"	12"	260	0.02
72"	12"	330	0.02
96"	2@10"	472	0.02
1000mm	10"	160	0.02
1513mm	12"	266	0.02
2000mm	12"	369	0.02

Note: Face velocities as low as 80 FPM will provide containment. However, NFPA minimum volume will not be met, therefore 100 FPM data only is provided.

Typical Roof Details



Side Section Details



OBSERVATION2™ CONSTANT VOLUME DOUBLE-FACED BENCH

Observation2™ double-faced fume hoods are designed to provide the greatest visibility with full viewing side and back glass panels. This allows the instructor or supervisor to spot any hazardous situations that may occur. This hood is suitable for Constant Air Volume (CAV) requirements only. The Observation2™ bench mounted fume hood is supplied with the following standard features:



Hood shown with vertical rising sashes.

Face Velocities - Tested to both standard and modified ASHRAE procedures at face velocities as low as 60 fpm.

Interior Liner - Powder coated galvanized steel interior liner. Not suitable for highly corrosive situations.

Full Viewing Area - Provides a clear and unobstructed side to side view of fume hood interior, with a 36" high viewing area. Narrow post design allows for more usable interior width. 6mm laminated safety glass is provided on center, side sash panels with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hoods supplied with two vertical rising sashes or two combination vertical rising and horizontal sliding sashes. Combination sashes have glass visor panel on upper portion to restrict opening to 28" high.

Chain & Sprocket Sash - Chain and sprocket mechanism that delivers the easiest and most reliable sash operation available with an exceptionally long life span.

Performance Sash Handle - Powder coated stainless steel handle incorporates an airfoil design and provides improved airflow along the lower edge of the sash to prevent turbulence from resulting in a hazardous release.

Self-Lowering Sash System - Sash latch temporarily secures the sash in the full open position for setup and tear down operations. When the lock is freed, the sash automatically returns to the 18" open operational position which offers extra protection to the operator and helps reduce energy consumption. Below 18" the sash is equally balanced.

Flush Sill Airfoil - Low-profile hinged type 316 powder coated stainless steel airfoil is flush with work surface to provide ergonomic and unobstructed access to the interior.

Spill Trough - Designed to provide secondary containment in the event a spill escapes the primary containment work top.

Electrical - Two white (one set on each face) UL/CSA approved combination USB charger/duplex receptacles for 120 volt service on one corner post and two white (one set on each face) UL/CSA approved combination light switch/receptacles for 120 volt service provided on the other corner post. UL/CSA approved fluorescent light fixture provided, T5 fluorescent or LED lighting are available options.

Plumbing - All corner posts pre-punched to accept a maximum of 4 front load plumbing fittings per side. If more than 4 plumbing fixtures per side, service controls will need to be base cabinet mounted and services will ship loose. Crosslinked polyethylene will be used on hot water, cold water, water supply non insulated and water return non insulated. High density polyethylene will be used on all other services except for burning gas, 3/8" OD stainless steel tubing provided for natural gas in USA (confirm this is acceptable to local authorities) (In Canada: copper tube). Insulated tubing and black pipe not an available option with this hood. This hood offers limited service space for pipes. Contact Mott if running supply lines from above to verify available space.

Access Panels - Snap-off front access panel with no exposed fasteners allows quick access to light fixtures for re-lamping.

Exhaust Slots - Exhaust slots on bottom of back panel improved airflow through the fume hood.

Stainless Steel Exhaust Collar - Wide rectangular exhaust duct connection improves airflow distribution across hood width.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Note: Observation2™ Double-Faced Bench fume hood ships in three pieces to pass through doors.

Vertical Sash		Combination Sash Part Number	Horizontal Glass Panels				Exhaust Transition	
Width	Part Number		Panel Width	Width Opening	Height Opening	# of Panels	Item Number	Duct
48"	72CV042	72CV052	10-3/8"	17-1/4"	28-3/16	4	EXT2624	12"
60"	73CV042	73CV052	13-3/8"	23-1/4"	28-3/16	4	EXT2624	12"
72"	74CV042	74CV052	16-3/8"	29-1/4"	28-3/16	6	EXT2624	12"

• One exhaust transition required for this model and fits over vent collar on Observation2™ fume hoods. Base Size 6" x 24".

• Exhaust transitions (rectangular duct to round duct) are available in 18 gauge, type 316 stainless steel or powder coated galvanized steel and fits over vent collar.

OBSERVATION2™ CONSTANT VOLUME DOUBLE-FACED BENCH

Exhaust Parameters

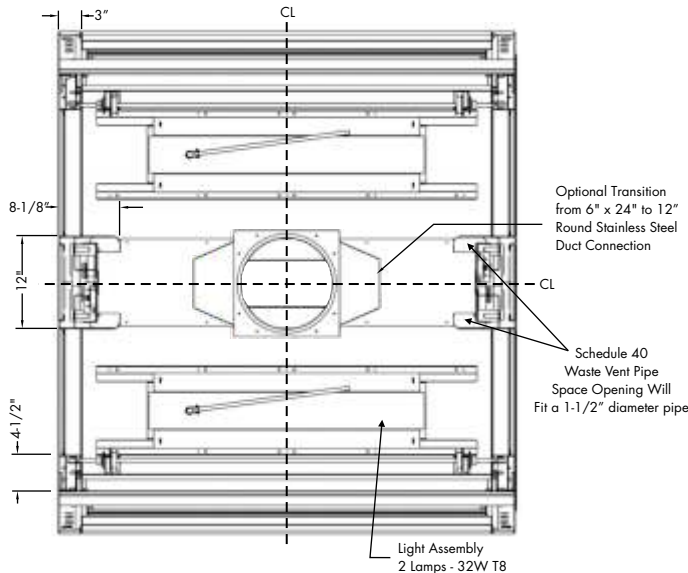
Hood Size	Duct Size	100 FPM 18" Max Sash Opening		100 FPM Combo Sash Open Horizontally		60 FPM 18" Max Sash Opening	
		CFM	SP*	CFM	SP*	CFM	SP*
48"	6" x 24"	1050	0.40	816	0.35	630	0.30
60"	6" x 24"	1350	0.45	1050	0.40	810	0.35
72"	6" x 24"	1650	0.50	1284	0.45	990	0.40

Note: See page P29 for Double-faced bench VAV applications. Listed airflow is the total required for both sides of the fume hood.

Note: Observation2™ Double-Faced Bench fume hood ships in three pieces to pass through doors.

* Does not include transition.

Typical Roof Details

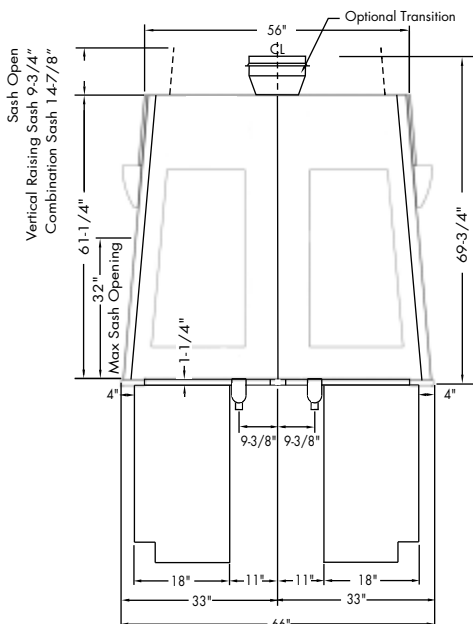


End Panel Options

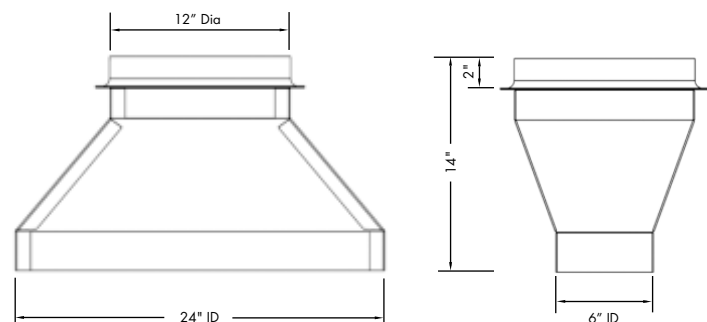
H1 - Solid End Panels on Left Side of Double-Faced Fume Hood - replaces glass end panels on left with solid end panels when hood is located against a wall.

H2 - Solid End Panels on Right Side of Double-Faced Fume Hood - replaces glass end panels on right with solid end panels when hood is located against a wall.

Side Section Details



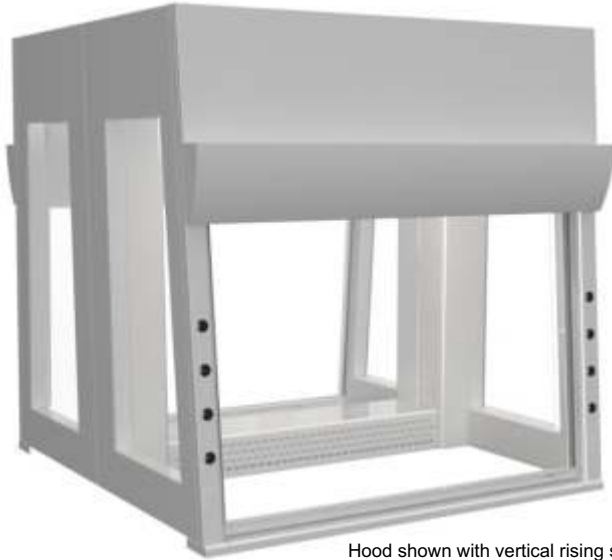
Optional Exhaust Transition Details



Note: When a 22" deep cabinet is required with a cup sink, a sink cabinet with a regular cup sink or a control panel cabinet with a low profile cup sink must be ordered.

OBSERVATION2™ VARIABLE AIR VOLUME DOUBLE-FACED BENCH

Double-faced island fume hoods are designed to provide the greatest visibility with full viewing side and back glass panels. This allows the instructor or supervisor to spot any hazardous situations that may occur. This hood is designed to meet most laboratory Variable Air Volume (VAV) requirements and supplied with a restricted upper by-pass. The Observation2™ bench mounted fume hood is supplied with the following standard features:



Hood shown with vertical rising sashes.

Face Velocities - Tested to both standard and modified ASHRAE procedures at face velocities as low as 60 fpm.

Interior Liner - Powder coated galvanized steel interior liner. Not suitable for highly corrosive situations.

Full Viewing Area - Provides a clear and unobstructed side to side view of fume hood interior, with a 36" high viewing area. Narrow post design allows for more usable interior width. 6mm laminated safety glass is provided on center, side sash panels with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hoods supplied with two vertical rising sashes or two combination vertical rising and horizontal sliding sashes. Combination sashes have glass visor panel on upper portion to restrict opening to 28" high.

Chain & Sprocket Sash - Chain and sprocket mechanism that delivers the easiest and most reliable sash operation available with an exceptionally long life span.

Performance Sash Handle - Powder coated stainless steel handle incorporates an airfoil design and provides improved airflow along the lower edge of the sash to prevent turbulence from resulting in a hazardous release.

Self-Lowering Sash System - Sash latch temporarily secures the sash in the full open position for setup and tear down operations. When the lock is freed, the sash automatically returns to the 18" open operational position which offers extra protection to the operator and helps reduce energy consumption. Below 18" the sash is equally balanced.

Flush Sill Airfoil - Low-profile hinged type 316 powder coated stainless steel airfoil is flush with work surface to provide ergonomic and unobstructed access to the interior.

Spill Trough - Designed to provide secondary containment in the event a spill escapes the primary containment work top.

Electrical - Two white (one set on each face) UL/CSA approved combination USB charger/duplex receptacles for 120 volt service on one corner post and two white (one set on each face) UL/CSA approved combination light switch/receptacles for 120 volt service provided on the other corner post. UL/CSA approved fluorescent light fixture provided, T5 fluorescent or LED lighting are available options.

Plumbing - All corner posts pre-punched to accept a maximum of 4 front load plumbing fittings per side. If more than 4 plumbing fixtures per side, service controls will need to be base cabinet mounted and services will ship loose. Crosslinked polyethylene will be used on hot water, cold water, water supply non insulated and water return non insulated. High density polyethylene will be used on all other services except for burning gas, 3/8" OD stainless steel tubing provided for natural gas in USA (confirm this is acceptable to local authorities) (In Canada: copper tube). Insulated tubing and black pipe not an available option with this hood. This hood offers limited service space for pipes. Contact Mott if running supply lines from above to verify available space.

Access Panels - Snap-off front access panel with no exposed fasteners allows quick access to light fixtures for re-lamping.

Exhaust Slots - Exhaust slots on bottom of back panel improved airflow through the fume hood.

Stainless Steel Exhaust Collar - Two wide rectangular exhaust duct collars and divided plenums supplied. Rectangular connection improves airflow distribution across hood width.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Vertical Sash		Combination Sash		Horizontal Glass Panels			Exhaust Transition		
Width	Part Number	Part Number	Part Number	Panel Width	Width Opening	Height Opening	# of Panels	Item Number	Duct
48"	72CA042	72CA052	72CA052	10-3/8"	17-1/4"	28-3/16	4	EXT0324	10"
60"	73CA042	73CA052	73CA052	13-3/8"	23-1/4"	28-3/16	4	EXT0324	10"
72"	74CA042	74CA052	74CA052	16-3/8"	29-1/4"	28-3/16	6	EXT0324	10"

- Two exhaust transitions required for this model and fits over vent collar on Observation2™ fume hoods. Base Size 3" x 24".
- Exhaust transitions (rectangular duct to round duct) are available in 18 gauge, type 316 stainless steel or powder coated galvanized steel and fits over vent collar.

OBSERVATION2™ VARIABLE AIR VOLUME DOUBLE-FACED BENCH

Exhaust Parameters

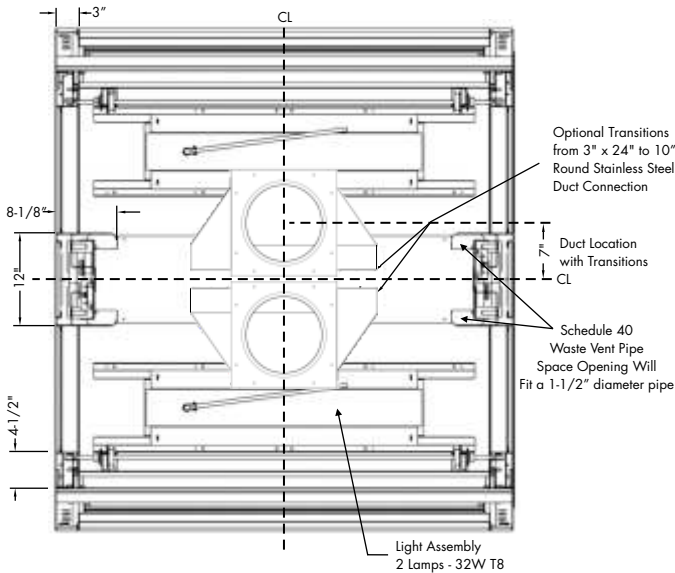
Hood Size	Duct Size	100 FPM 18" Max Sash Opening		100 FPM Combo Sash Open Horizontally		60 FPM 18" Max Sash Opening	
		CFM	SP*	CFM	SP*	CFM	SP*
48"	2 @ 3" x 24"	2 @ 525	2 @ 0.40	2 @ 408	2 @ 0.35	2 @ 315	2 @ 0.30
60"	2 @ 3" x 24"	2 @ 675	2 @ 0.45	2 @ 525	2 @ 0.40	2 @ 405	2 @ 0.35
72"	2 @ 3" x 24"	2 @ 825	2 @ 0.50	2 @ 642	2 @ 0.45	2 @ 495	2 @ 0.40

Note: See page P27 for Double-faced bench CAV applications. Airflow requirements listed for one side only.

Note: Observation2™ Double-Faced Bench fume hood ships in three pieces to pass through doors.

* Does not include transition.

Typical Roof Details

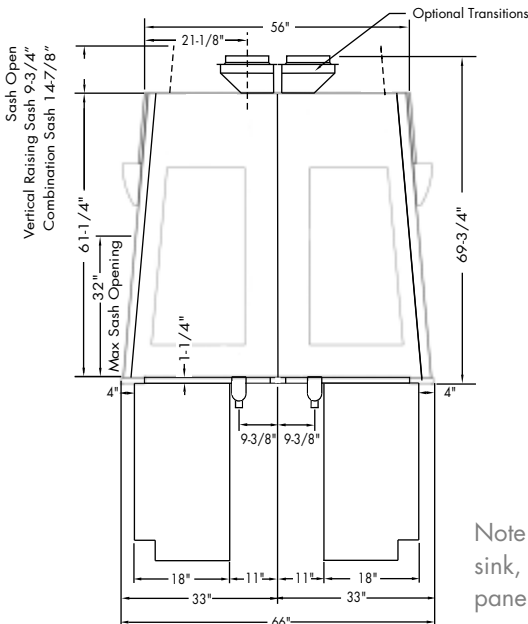


End Panel Options

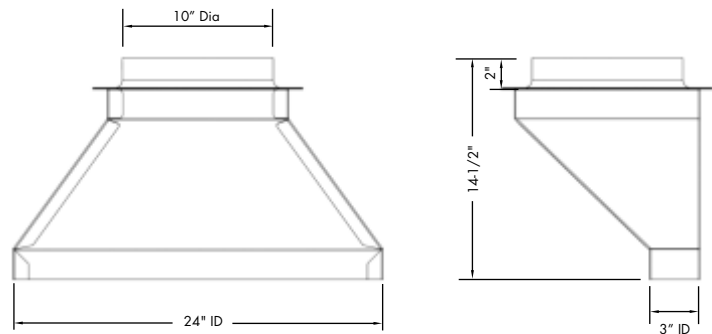
H1 - Solid End Panels on Left Side of Double-Faced Fume Hood - replaces glass end panels on left with solid end panels when hood is located against a wall.

H2 - Solid End Panels on Right Side of Double-Faced Fume Hood - replaces glass end panels on right with solid end panels when hood is located against a wall.

Side Section Details



Optional Exhaust Transition Details



Note: When a 22" deep cabinet is required with a cup sink, a sink cabinet with a regular cup sink or a control panel cabinet with a low profile cup sink must be ordered.

OBSERVATION2™ CONSTANT VOLUME SINGLE-FACED BENCH

This single-faced fume hood is designed to provide the greatest visibility with full viewing side panels. This allows the instructor or supervisor to spot any hazardous situations that may occur. This hood is suitable for Constant Air Volume (CAV) requirements only. The Observation2™ bench mounted fume hood is supplied with the following standard features:



Face Velocities - Tested to both standard and modified ASHRAE procedures at face velocities as low as 60 fpm.

Interior Liner - Powder coated galvanized steel interior liner. Not suitable for highly corrosive situations.

Full Viewing Area - Provides a clear and unobstructed side to side view of fume hood interior, with a 36" high viewing area. Narrow post design allows for more usable interior width. 6mm laminated safety glass is provided on the side and sash panels with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hoods supplied with vertical rising sash or combination vertical rising and horizontal sliding sash. Combination sashes have glass visor panel on upper portion to restrict opening to 28" high.

Chain & Sprocket Sash - Chain and sprocket mechanism that delivers the easiest and most reliable sash operation available with an exceptionally long life span.

Performance Sash Handle - Powder coated stainless steel handle incorporates an airfoil design and provides improved airflow along the lower edge of the sash to prevent turbulence from resulting in a hazardous release.

Self-Lowering Sash System - Sash latch temporarily secures the sash in the full open position for setup and tear down operations. When the lock is freed, the sash automatically returns to the 18" open operational position which offers extra protection to the operator and helps reduce energy consumption. Below 18" the sash is equally balanced.

Flush Sill Airfoil - Low-profile hinged type 316 powder coated stainless steel airfoil is flush with work surface to provide ergonomic and unobstructed access to the interior.

Spill Trough - Designed to provide secondary containment in the event a spill escapes the primary containment work top.

Electrical - One white UL/CSA approved combination USB charger/duplex receptacles for 120 volt service on one corner post and one white UL/CSA approved combination light switch/receptacles for 120 volt service provided on the other corner post. UL/CSA approved fluorescent light fixture provided, T5 fluorescent or LED lighting are available options.

Plumbing - Both corner posts pre-punched to accept a maximum of 4 front load plumbing fittings. If more than 4 plumbing fixtures per side, service controls will need to be base cabinet mounted and services will ship loose. Crosslinked polyethylene will be used on hot water, cold water, water supply non insulated and water return non insulated. High density polyethylene will be used on all other services except for burning gas, 3/8" OD stainless steel tubing provided for natural gas in USA (confirm this is acceptable to local authorities) (In Canada: copper tube). Insulated tubing and black pipe not an available option with this hood. This hood offers limited service space for pipes. Contact Mott if running supply lines from above to verify available space.

Access Panels - Snap-off front access panel with no exposed fasteners allows quick access to light fixtures for re-lamping.

Exhaust Slots - Exhaust slots on bottom of back panel improved airflow through the fume hood.

Stainless Steel Exhaust Collar - Wide rectangular exhaust duct collar connection improves airflow distribution across hood width.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Vertical Sash		Combination Sash Part Number	Horizontal Glass Panels				Exhaust Transition	
Width	Part Number		Panel Width	Width Opening	Height Opening	# of Panels	Item Number	Duct
48"	72CV040	72CV050	10-3/8"	17-1/4"	28-3/16	4	EXT0324	10"
60"	73CV040	73CV050	13-3/8"	23-1/4"	28-3/16	4	EXT0324	10"
72"	74CV040	74CV050	16-3/8"	29-1/4"	28-3/16	6	EXT0324	10"

• One exhaust transition required for this model and fits over vent collar on Observation2™ fume hoods. Base Size 3" x 24".

• Exhaust transitions (rectangular duct to round duct) are available in 18 gauge, type 316 stainless steel or powder coated galvanized steel and fits over vent collar.

OBSERVATION2™ CONSTANT VOLUME SINGLE-FACED BENCH

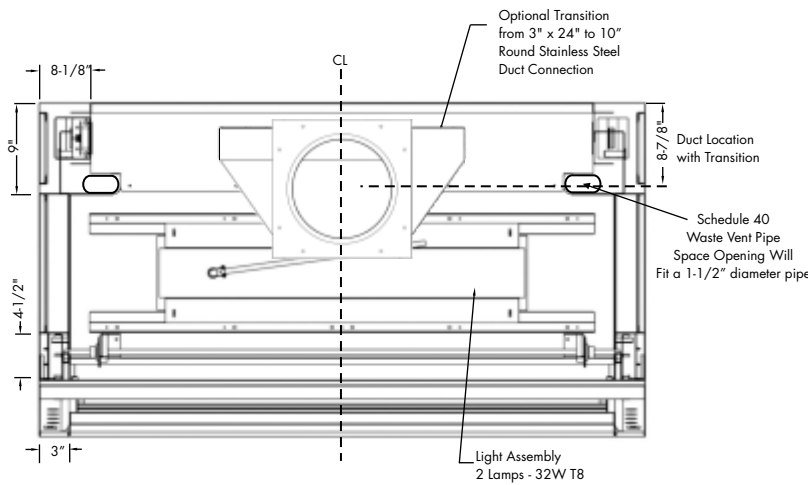
Exhaust Parameters

Hood Size	Duct Size	100 FPM 18" Max Sash Opening		100 FPM Combo Sash Open Horizontally		60 FPM 18" Max Sash Opening	
		CFM	SP*	CFM	SP*	CFM	SP*
48"	3" x 24"	525	0.40	408	0.35	315	0.30
60"	3" x 24"	675	0.45	525	0.40	405	0.35
72"	3" x 24"	825	0.50	642	0.45	495	0.40

Note: See page P33 for Single-faced bench VAV applications.

* Does not include transition.

Typical Roof Details



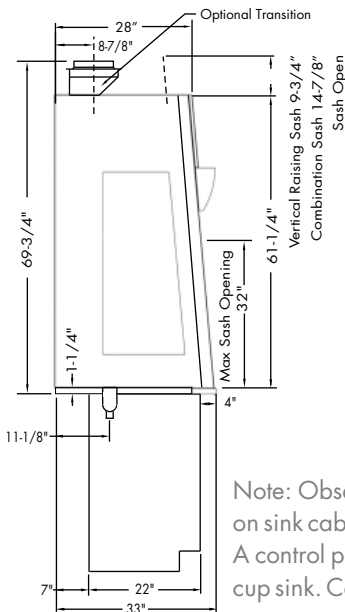
End & Back Panel Options

H1 - Solid End Panels on Left Side of Double-Faced Fume Hood - replaces glass end panels on left with solid end panels when hood is located against a wall.

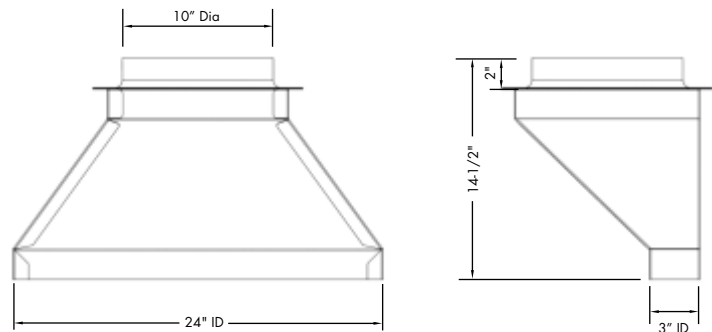
H2 - Solid End Panels on Right Side of Double-Faced Fume Hood - replaces glass end panels on right with solid end panels when hood is located against a wall.

GB - Glass back viewing panel

Side Section Details



Optional Exhaust Transition Details



Note: Observation2™ fume hoods are generally mounted on sink cabinets when a cup sink is required (as shown). A control panel cabinet can also be used with a low profile cup sink. Contact Mott for details.

OBSERVATION2™ VARIABLE AIR VOLUME SINGLE-FACED BENCH

This single-faced fume hood is designed to provide the greatest visibility with full viewing side panels. This allows the instructor or supervisor to spot any hazardous situations that may occur. This hood is designed to meet most laboratory Variable Air Volume (VAV) requirements and supplied with a restricted upper by-pass. The Observation2™ bench mounted fume hood is supplied with the following standard features:



Face Velocities - Tested to both standard and modified ASHRAE procedures at face velocities as low as 60 fpm.

Interior Liner - Powder coated galvanized steel interior liner. Not suitable for highly corrosive situations.

Full Viewing Area - Provides a clear and unobstructed side to side view of fume hood interior, with a 36" high viewing area. Narrow post design allows for more usable interior width. 6mm laminated safety glass is provided on side and sash panels with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hoods supplied with vertical rising sash or combination vertical rising and horizontal sliding sash. Combination sashes have glass visor panel on upper portion to restrict opening to 28" high.

Chain & Sprocket Sash - Chain and sprocket mechanism that delivers the easiest and most reliable sash operation available with an exceptionally long life span.

Performance Sash Handle - Powder coated stainless steel handle incorporates an airfoil design and provides improved airflow along the lower edge of the sash to prevent turbulence from resulting in a hazardous release.

Self-Lowering Sash System - Sash latch temporarily secures the sash in the full open position for setup and tear down operations. When the lock is freed, the sash automatically returns to the 18" open operational position which offers extra protection to the operator and helps reduce energy consumption. Below 18" the sash is equally balanced.

Flush Sill Airfoil - Low-profile hinged type 316 powder coated stainless steel airfoil is flush with work surface to provide ergonomic and unobstructed access to the interior.

Spill Trough - Designed to provide secondary containment in the event a spill escapes the primary containment work top.

Electrical - One white UL/CSA approved combination USB charger/duplex receptacles for 120 volt service on one corner post and one white UL/CSA approved combination light switch/receptacles for 120 volt service provided on the other corner post. UL/CSA approved fluorescent light fixture provided, T5 fluorescent or LED lighting are available options.

Plumbing - Both corner posts pre-punched to accept a maximum of 4 front load plumbing fittings. If more than 4 plumbing fixtures per side, service controls will need to be base cabinet mounted and services will ship loose. Crosslinked polyethylene will be used on hot water, cold water, water supply non insulated and water return non insulated. High density polyethylene will be used on all other services except for burning gas, 3/8" OD stainless steel tubing provided for natural gas in USA (confirm this is acceptable to local authorities) (In Canada: copper tube). Insulated tubing and black pipe not an available option with this hood. This hood offers limited service space for pipes. Contact Mott if running supply lines from above to verify available space.

Access Panels - Snap-off front access panel with no exposed fasteners allows quick access to light fixtures for re-lamping.

Exhaust Slots - Exhaust slots on bottom of back panel improved airflow through the fume hood.

Stainless Steel Exhaust Collar - Wide rectangular exhaust duct collar connection improves airflow distribution across hood width.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Vertical Sash		Combination Sash		Horizontal Glass Panels			Exhaust Transition		
Width	Part Number	Part Number	Part Number	Panel Width	Width Opening	Height Opening	# of Panels	Item Number	Duct
48"	72CA040	72CA050	72CA050	10-3/8"	17-1/4"	28-3/16	4	EXT0324	10"
60"	73CA040	73CA050	73CA050	13-3/8"	23-1/4"	28-3/16	4	EXT0324	10"
72"	74CA040	74CA050	74CA050	16-3/8"	29-1/4"	28-3/16	6	EXT0324	10"

- One exhaust transition required for this model and fits over vent collar on Observation2™ fume hoods. Base Size 3" x 24".
- Exhaust transitions (rectangular duct to round duct) are available in 18 gauge, type 316 stainless steel or powder coated galvanized steel and fits over vent collar.

OBSERVATION2™ VARIABLE AIR VOLUME SINGLE-FACED BENCH

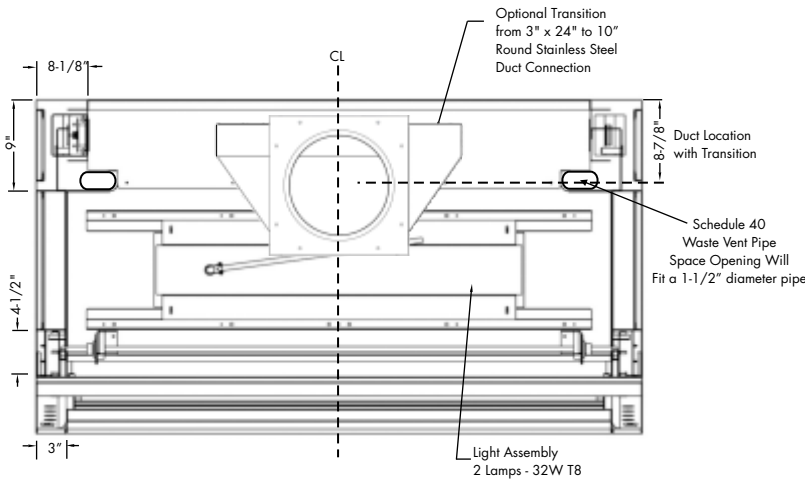
Exhaust Parameters

Hood Size	Duct Size	100 FPM 18" Max Sash Opening		100 FPM Combo Sash Open Horizontally		60 FPM 18" Max Sash Opening	
		CFM	SP*	CFM	SP*	CFM	SP*
48"	3" x 24"	525	0.40	408	0.35	315	0.30
60"	3" x 24"	675	0.45	525	0.40	405	0.35
72"	3" x 24"	825	0.50	642	0.45	495	0.40

Note: See page P31 for Single-faced bench CAV applications.

* Does not include transition.

Typical Roof Details



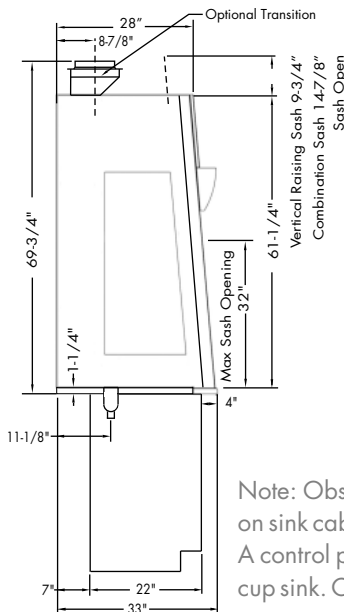
End & Back Panel Options

H1 - Solid End Panels on Left Side of Double-Faced Fume Hood - replaces glass end panels on left with solid end panels when hood is located against a wall.

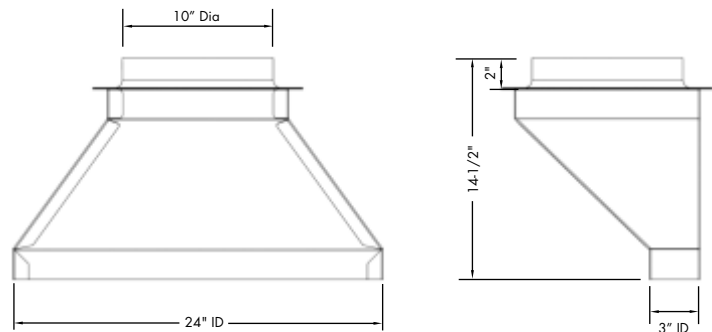
H2 - Solid End Panels on Right Side of Double-Faced Fume Hood - replaces glass end panels on right with solid end panels when hood is located against a wall.

GB - Glass back viewing panel

Side Section Details



Optional Exhaust Transition Details



Note: Observation2™ fume hoods are generally mounted on sink cabinets when a cup sink is required (as shown). A control panel cabinet can also be used with a low profile cup sink. Contact Mott for details.

PRO DEMONSTRATION BENCH - VERTICAL SASH

Designed to permit demonstration and observation from both sides and meets most laboratory Constant Air Volume (CAV) or Variable Air Volume (VAV) requirements and supplied with a restricted upper by-pass. Can be used either free standing or positioned within a wall between a classroom and a prep room. Mounts on a 30" deep counter top. The Pro bench mounted fume hood is supplied with the following standard features:



Counterbalance System - High quality stainless steel cable system provides economical and reliable operation; tested to 100,000 cycles with no failure.

Stainless Steel Airfoil - Aerodynamic raised design allows air to enter the fume hood even when the sash is closed ensuring efficient fume exhaust. Notches in both corners allow electrical wiring or tubing into the fume hood while still permitting full closure of the sash.

Sash Design - 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hoods are supplied with two vertical rising sashes. 30" viewing height.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to reduce duct transition costs, minimize static pressure losses and exhaust noise levels.

Electrical - Four UL/CSA approved duplex receptacles provided for 120 volt service, one on each corner post. UL/CSA approved fluorescent light fixture and three-way light switch on both sides of hood provided. T5 fluorescent or LED lighting are available options.

Plumbing - Two corner posts pre-punched to accept a maximum of 5 plumbing fittings per post, at one end, opposite end reserved for counter weights. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Interior gasketed access panel is on the same side wall as the plumbing and provides convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Note: Special airflow consideration required when installing between two rooms - Please contact Mott Manufacturing for more information. If alarm is required, mounting is recommended on end with plumbing.

Vertical Raising Sash (Cable Sash System)	
Width	FRP
36"	7121002
48"	7221002
60"	7321002
72"	7421002
96"	7521002
1000mm	7B21002
1513mm	7C21002
2000mm	7D21002

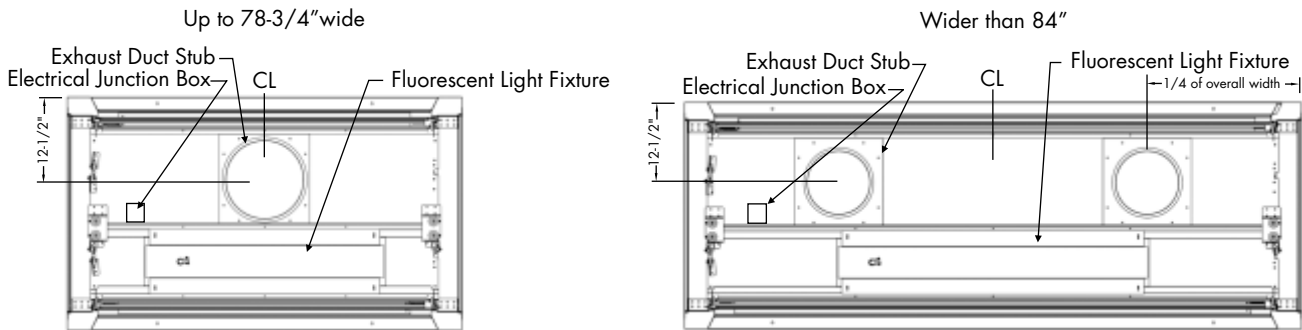
PRO DEMONSTRATION BENCH - VERTICAL SASH

Exhaust Parameters

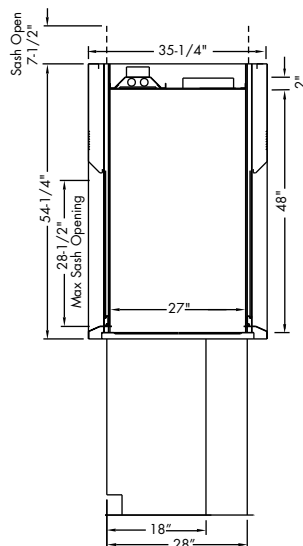
Hood Size	Duct Dia.	100 FPM 18" Max Sash Opening		100 FPM 28-1/2" Max Sash Opening		80 FPM 18" Max Sash Opening		80 FPM 28-1/2" Max Sash Opening	
		CFM	SP	CFM	SP	CFM	SP	CFM	SP
36"	10"	350	0.04	543	0.10	280	0.03	434	0.05
48"	10"	508	0.09	789	0.20	407	0.06	630	0.15
60"	12"	667	0.07	1035	0.20	533	0.05	830	0.15
72"	12"	825	0.11	1280	0.25	660	0.07	1025	0.20
96"	2@10"	1142	0.11	1772	0.25	913	0.07	1418	0.20
1000mm	10"	395	0.05	612	0.15	316	0.04	490	0.10
1513mm	12"	660	0.07	1025	0.20	528	0.05	820	0.15
2000mm	12"	914	0.14	1419	0.30	731	0.09	1135	0.20

Note: Only one sash is open in CFM calculations. Special airflow consideration required when installing between two rooms, contact Mott for more information.

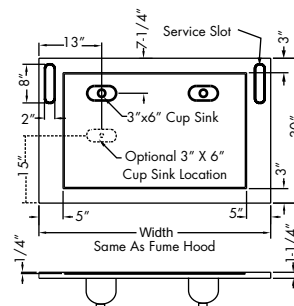
Typical Roof Details



Side Section Details



Work Surface Details



Typical fume hood work top showing optional cup sinks located for 18" deep cabinets.

Optional cup sink location if sink cabinet is located below fume hood.

Cup sink location suits a gooseneck only.

Options

S8 - Sash Interlock - Allows only one sash to be opened at a time.

S9 - Sash Key Lock On Both Doors - Sash stop with key to lock sash in place.

W1 - End Window - One end only. Note services must be work surface mounted.

OPTIMA™ - VERTICAL SASH

Optima™ fume hoods have been specifically designed to meet the demanding safety, operational and ergonomic requirements of the modern laboratory. This hood is designed to meet most laboratory constant air volume (CAV) and variable air volume (VAV) requirements and supplied with an automatic compensating upper by-pass. For VAV, use option S2 for restricted by-pass plate. The Optima™ fume hood is supplied with the following standard features:



Face Velocities - Designed for 80-100 feet per minute face velocities.

Self-Supporting Structure - The self supporting structure allows for slide-in or mobile cabinets allowing for easy reconfiguration.

Adjustable Work Surface - Electro-hydraulic height adjustable work surface (work top included) with electric motor has the flexibility to be raised or lowered from 30" to 36" to accommodate the requirements for individual users, different procedures or equipment. Ideal for ADA applications.

Optimized Interior Working Area - Achieved through sleek side posts and a minimized frame.

Chain Drive Sash - Chain and sprocket system delivers the easiest and most reliable sash operation available with an exceptionally long life span.

Baffle System - Baffle system that adjusts with the work surface for improved airflow through the fume hood.

Chemical Resistant Liner - Standard fiberglass reinforced polyester liner has excellent strength and chemical resistance; additional liner materials are also available.

Flush Sill Airfoil - Flush with the work surface to provide easy access to the hood interior. Spill trough is designed to provide secondary containment in the event a spill escapes the primary containment work top. Air foil is hinged for easy cleaning.

Performance Sash Handle - Powder coated stainless steel handle incorporates an airfoil design providing improved airflow along the lower edge of the sash to prevent turbulence from disturbing the process or user.

Sash Design - 6mm laminated safety glass is provided with powder coated stainless steel handle and side runners. Hoods are supplied with a vertical rising sash. 38" to 45" viewing height.

Self-Lowering Sash System - Sash latch temporarily secures the sash in the full open position for setup and tear down operations. When the latch is released, the sash automatically returns to the operational position for energy savings and safety.

Electrical - Controls are conveniently located in the recessed apron pockets. Two UL/CSA approved duplex receptacles provided for 120 volt service. UL/CSA approved fluorescent light fixture and switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Fixture holes are not pre-punched and punched only as ordered. For ADA applications a maximum of three fixtures per side only if the bottom fixture is for cold water. For standard applications corner posts can accept a maximum of five fixtures per side. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to minimize static pressure losses and exhaust noise levels.

Work Surface - Standard white dished epoxy work top with optional cup sink; additional work surface materials are also available. If cup sink is required, telescoping drain with a fixed drain cover is provided.

Agency Approvals - Meets ASHRAE 110 guidelines and CSA certified. Test results available upon request.

Vertical Raising Sash (Chain & Sprocket Sash System)

Width	FRP
48"	72D1040
60"	73D1040
72"	74D1040

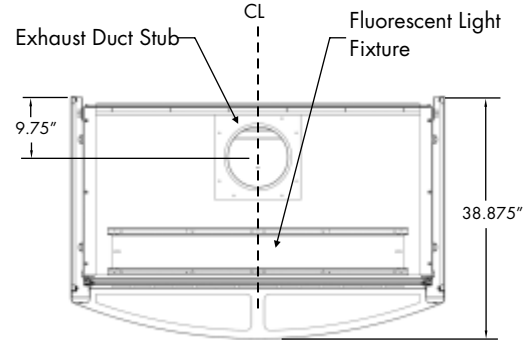
OPTIMA™ - VERTICAL SASH

Exhaust Parameters

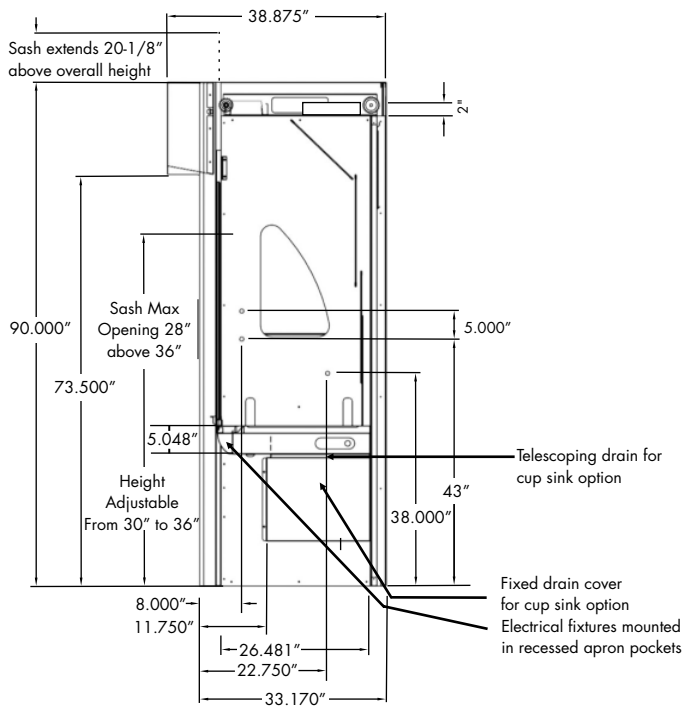
Hood Size	Duct Dia.	100 FPM 18" Max Sash Opening		80 FPM 18" Max Sash Opening	
		CFM	SP	CFM	SP
48"	10"	581	0.11	465	0.07
60"	10"	739	0.18	591	0.11
72"	12"	897	0.27	718	0.18

Note: Fully open sash is for set-up and tear down of experiments only. Work should not be performed in the set-up position.

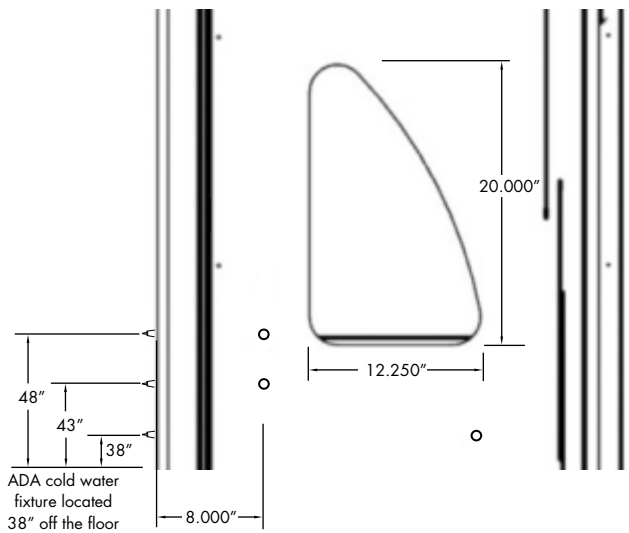
Typical Roof Details



Optima™ Dimensions - End View

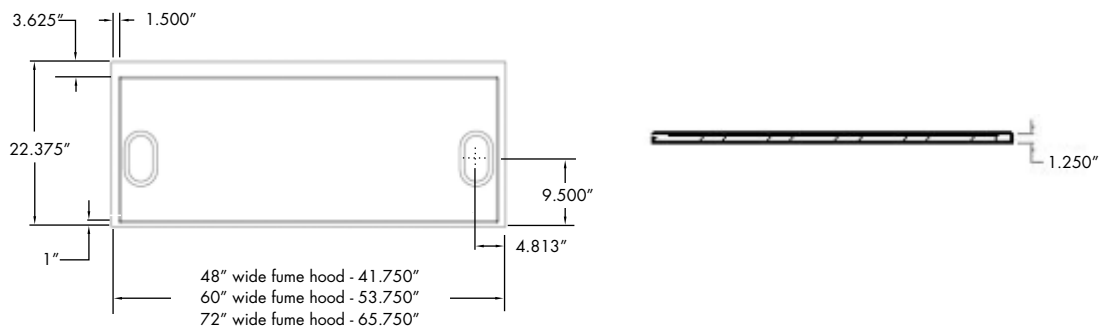


ADA Fixture Location - End View



NOTE: Standard fixture location (not ADA) is 39-3/4" off the floor and are spaced 5" apart for standard applications.

Optima™ Work Top Dimensions Shown With Optional Cup Sink Location



OPTIMA™ - COMBINATION SASH

Optima™ fume hoods have been specifically designed to meet the demanding safety, operational and ergonomic requirements of the modern laboratory. This hood is designed to meet most laboratory constant air volume (CAV) and variable air volume (VAV) requirements and supplied with a restricted upper by-pass. The Optima™ fume hood is supplied with the following standard features:



Face Velocities - Designed for 80-100 feet per minute face velocities.

Self-Supporting Structure - The self supporting structure allows for slide-in or mobile cabinets allowing for easy reconfiguration.

Adjustable Work Surface - Electro-hydraulic height adjustable work surface (work top included) with electric motor has the flexibility to be raised or lowered from 30" to 36" to accommodate the requirements for individual users, different procedures or equipment. Ideal for ADA applications.

Optimized Interior Working Area - Achieved through sleek side posts and a minimized frame.

Chain Drive Sash - Chain and sprocket system delivers the easiest and most reliable sash operation available with an exceptionally long life span.

Baffle System - Baffle system that adjusts with the work surface for improved airflow through the fume hood.

Chemical Resistant Liner - Standard fiberglass reinforced polyester liner has excellent strength and chemical resistance; additional liner materials are also available.

Flush Sill Airfoil - Flush with the work surface to provide easy access to the hood interior. Spill trough is designed to provide secondary containment in the event a spill escapes the primary containment work top. Air foil is hinged for easy cleaning.

Performance Sash Handle - Powder coated stainless steel handle incorporates an airfoil design providing improved airflow along the lower edge of the sash to prevent turbulence from disturbing the process or user.

Sash Design - Sash is 6mm laminated safety glass. Hoods are supplied with a top hung combination vertical rising and horizontal sliding sashes to optimize energy efficiency and maximize operator safety. 38" to 45" viewing height.

Self-Lowering Sash System - Sash latch temporarily secures the sash in the full open position for setup and tear down operations. When the latch is released, the sash automatically returns to the operational position for energy savings and safety.

Electrical - Controls are conveniently located in the recessed apron pockets. Two UL/CSA approved duplex receptacles provided for 120 volt service. UL/CSA approved fluorescent light fixture and switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Fixture holes are not pre-punched and punched only as ordered. For ADA applications a maximum of three fixtures per side only if the bottom fixture is for cold water. For standard applications corner posts can accept a maximum of five fixtures per side. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to minimize static pressure losses and exhaust noise levels.

Work Surface - Standard white dished epoxy work top with optional cup sink; additional work surface materials are also available. If cup sink is required, telescoping drain with a fixed drain cover is provided.

Agency Approvals - Meets ASHRAE 110 guidelines and CSA certified. Test results available upon request.

Combination Sash (Chain & Sprocket Sash System)		Horizontal Glass Panels			
Width	FRP	Panel Width	Width Opening	Height Opening	# of Panels
48"	72D1050	10-9/16"	17-1/2"	43-1/8"	4
60"	73D1050	13-9/16"	23-3/4"	43-1/8"	4
72"	74D1050	16-9/16"	29-3/4"	43-1/8"	4

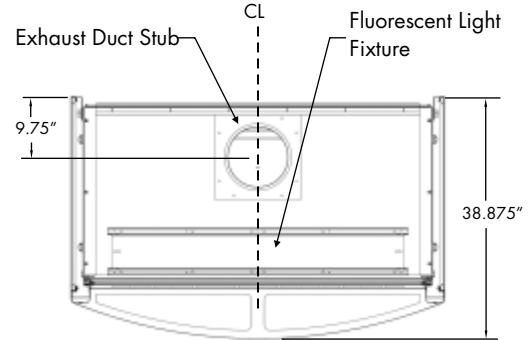
OPTIMA™ - COMBINATION SASH

Exhaust Parameters

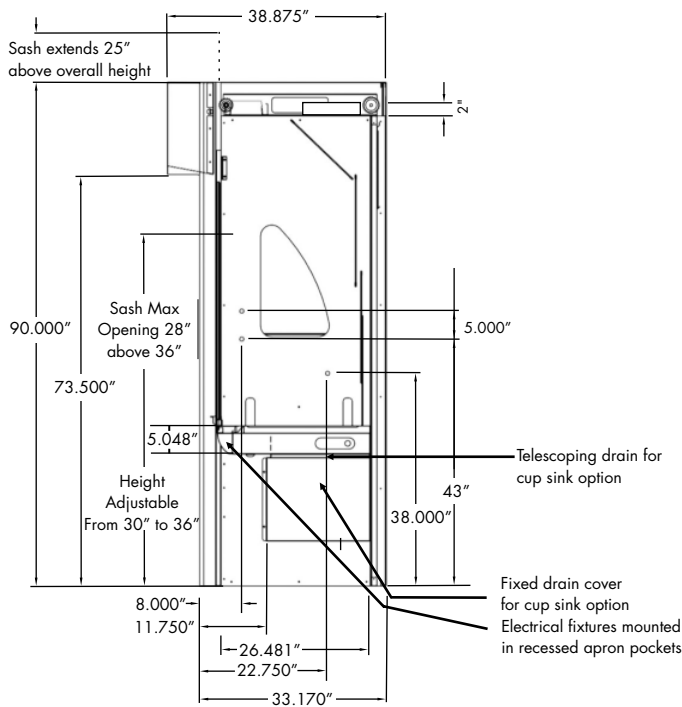
Hood Size	Duct Dia.	100 FPM 18" Max Sash Opening		100 FPM Sash Open Horizontally Only	
		CFM	SP	CFM	SP
48"	10"	555	0.11	585	0.12
60"	10"	713	0.17	750	0.19
72"	12"	871	0.12	917	0.14

Note: Fully open sash is for set-up and tear down of experiments only. Work should not be performed in the set-up position.

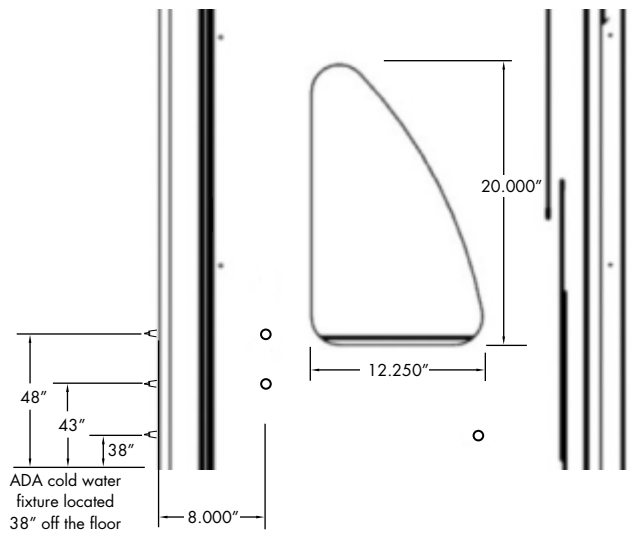
Typical Roof Details



Optima™ Dimensions - End View

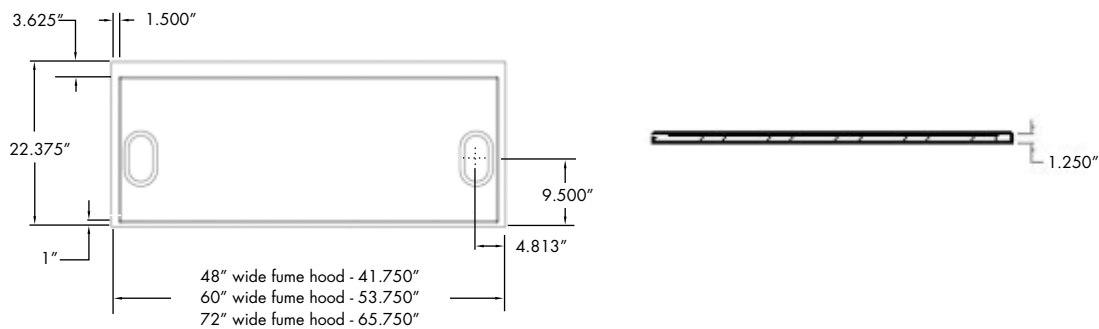


ADA Fixture Location - End View



NOTE: Standard fixture location (not ADA) is 39-3/4" off the floor and are spaced 5" apart for standard applications.

Optima™ Work Top Dimensions Shown With Optional Cup Sink Location



PRO PERCHLORIC ACID BENCH - VERTICAL SASH

Designed to meet the stringent requirements of perchloric acid applications and suitable for Constant Air Volume (CAV) requirements only and supplied with an automatic compensating upper by-pass. Complete with 30" deep seamlessly welded counter top and trough of the same material as liner. The Pro bench mounted fume hood is supplied with the following standard features:



Counterbalance System - Chain and sprocket system delivers the easiest and most reliable sash operation available with an exceptionally long life span. High quality stainless steel cable system provides economical and reliable operation; tested to 100,000 cycles with no failure.

Stainless Steel Airfoil - Aerodynamic raised design allows air to enter the fume hood even when the sash is closed ensuring efficient fume exhaust. Notches in both corners allow electrical wiring or tubing into the fume hood while still permitting full closure of the sash.

Sash Design - 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hoods are supplied with a vertical rising sash. 30" viewing height.

Baffle System - Baffle is removable.

Chemical Resistant Liner - Type 316 stainless steel liner suitable for straight perchloric acid only. For other acids, PVC is available. Contact Mott for chemical resistance details.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to minimize static pressure losses and exhaust noise levels.

Electrical - Two UL/CSA approved duplex receptacles provided for 120 volt service, one on each corner post. UL/CSA approved fluorescent light fixture and switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Both corner posts are pre-punched to accept a maximum of five plumbing fittings per post. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Water Wash Down System - Pre plumbed internal wash down system with rear spray bar, control valve to match plumbing, trough and drain.

Access Panels - Exterior side panels are removable for ease of access to plumbing and electrical service fixtures.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Notes: Perchloric acid hood must be connected to a dedicated exhaust system designed specifically for perchloric acid use.

Vertical Raising Sash (Cable Sash System)			Vertical Raising Sash (Chain & Sprocket Sash System)		
Width	316 S/S Rad. Cor	PVC Rad. Cor.	Width	316 S/S Sq. Cor	PVC Rad. Cor
36"	7127000	7129000	36"	7127040	7129040
48"	7227000	7229000	48"	7227040	7229040
60"	7327000	7329000	60"	7327040	7329040
72"	7427000	7429000	72"	7427040	7429040
96"	7527000	7529000	96"	7527040	7529040
1000mm	7B27000	7B29000	1000mm	7B27040	7B29040
1513mm	7C27000	7C29000	1513mm	7C27040	7C29040
2000mm	7D27000	7D29000	2000mm	7D27040	7D29040

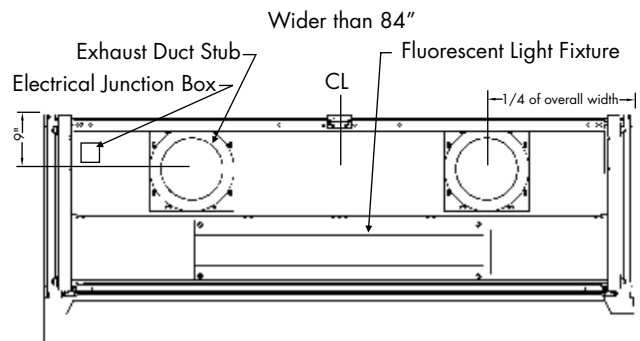
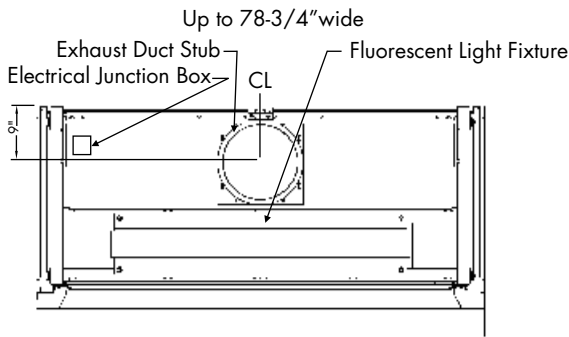
PRO PERCHLORIC ACID BENCH - VERTICAL SASH

Exhaust Parameters

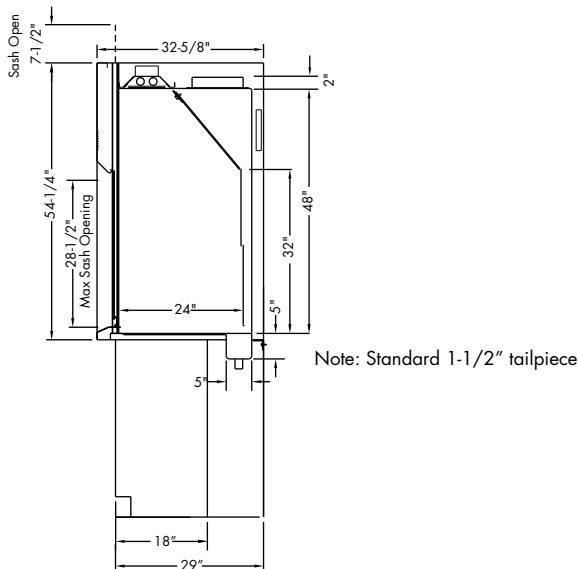
Hood Size	Duct Dia.	100 FPM 18" Max Sash Opening		100 FPM 28-1/2" Max* Sash Opening		80 FPM 18" Max Sash Opening		80 FPM 28-1/2" Max* Sash Opening	
		CFM	SP	CFM	SP	CFM	SP	CFM	SP
36"	10"	350	0.04	543	0.10	280	0.03	434	0.05
48"	10"	508	0.09	789	0.20	407	0.06	630	0.15
60"	12"	667	0.07	1035	0.20	533	0.05	830	0.15
72"	12"	825	0.11	1280	0.25	660	0.07	1025	0.20
96"	2@10"	1142	0.11	1772	0.25	913	0.07	1418	0.20
1000mm	10"	395	0.05	612	0.15	316	0.04	490	0.10
1513mm	12"	660	0.07	1025	0.20	528	0.05	820	0.15
2000mm	12"	914	0.14	1419	0.30	731	0.09	1135	0.20

* 28-1/2" max sash opening is recommended for set-up and tear down only.

Typical Roof Details



Side Section Details



PRO RADIOISOTOPE BENCH - VERTICAL SASH

Designed to meet the stringent requirements of radioisotope applications and meet most laboratory Constant Air Volume (CAV) or Variable Air Volume (VAV) requirements and supplied with an automatic compensating upper by-pass. For VAV, use option S2 for restricted by-pass plate. Complete with 30" deep seamlessly welded stainless steel counter top. The Pro bench mounted fume hood is supplied with the following standard features:



Counterbalance Systems - Chain and sprocket system delivers the easiest and most reliable sash operation available with an exceptionally long life span. High quality stainless steel cable system provides economical and reliable operation; tested to 100,000 cycles with no failure.

Stainless Steel Airfoil - Aerodynamic raised design allows air to enter the fume hood even when the sash is closed ensuring efficient fume exhaust. Notches in both corners allow electrical wiring or tubing into the fume hood while still permitting full closure of the sash.

Sash Design - 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hoods are supplied with a vertical rising sash. 30" viewing height.

Chemical Resistant Liner - Type 316 stainless steel liner suitable for radioisotope applications. All weld joints ground smooth and polished.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to minimize static pressure losses and exhaust noise levels.

Electrical - Two UL/CSA approved duplex receptacles provided for 120 volt service, one on each corner post. UL/CSA approved fluorescent light fixture and switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Both corner posts are pre-punched to accept a maximum of five plumbing fittings per post. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Notes: Integral type 316 stainless steel work surface reinforced with hat channel construction.

Vertical Raising Sash (Cable Sash System)
Width 316 S/S Rad. Cor

36"	7128000
48"	7228000
60"	7328000
72"	7428000
96"	7528000
1000mm	7B28000
1513mm	7C28000
2000mm	7D28000

Vertical Raising Sash (Chain & Sprocket Sash System)
Width 316 S/S Rad. Cor

36"	7128040
48"	7228040
60"	7328040
72"	7428040
96"	7528040
1000mm	7B28040
1513mm	7C28040
2000mm	7D28040

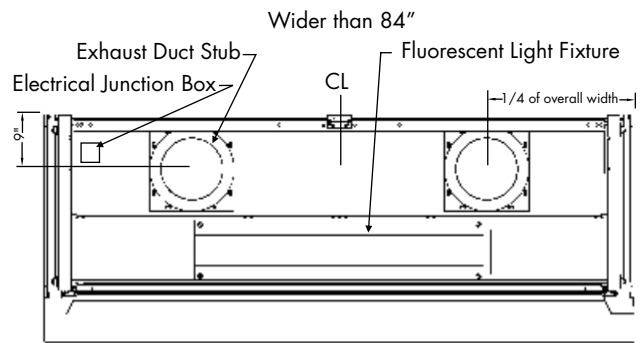
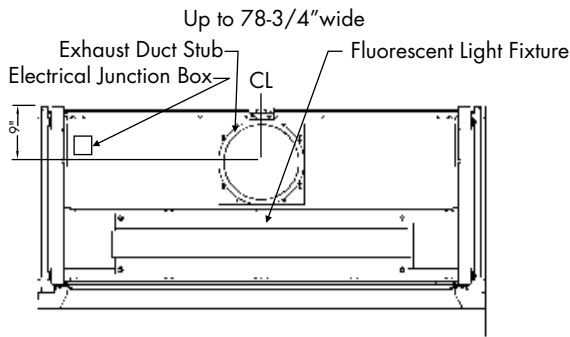
PRO RADIOISOTOPE BENCH - VERTICAL SASH

Exhaust Parameters

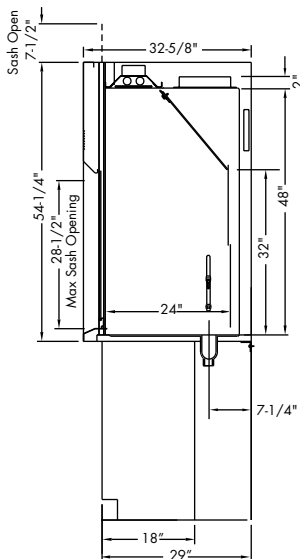
Hood Size	Duct Dia.	100 FPM 18" Max Sash Opening		100 FPM 28-1/2" Max* Sash Opening		80 FPM 18" Max Sash Opening		80 FPM 28-1/2" Max* Sash Opening	
		CFM	SP	CFM	SP	CFM	SP	CFM	SP
36"	10"	350	0.04	543	0.10	280	0.03	434	0.05
48"	10"	508	0.09	789	0.20	407	0.06	630	0.15
60"	12"	667	0.07	1035	0.20	533	0.05	830	0.15
72"	12"	825	0.11	1280	0.25	660	0.07	1025	0.20
96"	2@10"	1142	0.11	1772	0.25	913	0.07	1418	0.20
1000mm	10"	395	0.05	612	0.15	316	0.04	490	0.10
1513mm	12"	660	0.07	1025	0.20	528	0.05	820	0.15
2000mm	12"	914	0.14	1419	0.30	731	0.09	1135	0.20

* 28-1/2" max sash opening is recommended for set-up and tear down only.

Typical Roof Details



Side Section Details



32-5/8" DEEP FULLY ACCESSIBLE - COMBINATION SASH

This fume hood is designed to be accessed from standing and sitting positions. This hood is designed to meet most laboratory Constant Air Volume (CAV) or Variable Air Volume (VAV) requirements and supplied with an automatic compensating upper by-pass. For VAV, use option S2 for restricted by-pass plate. To meet ADA requirements, the hood is designed to mount on a 28-3/4" high unit below the hood. The Pro bench mounted fume hood is supplied with the following standard features:



Counterbalance Systems - Chain and sprocket system delivers the easiest and most reliable sash operation available with an exceptionally long life span. High quality stainless steel cable system provides economical and reliable operation; tested to 100,000 cycles with no failure.

Stainless Steel Airfoil - Aerodynamic design allows air to enter the hood even when the sash is closed ensuring efficient fume exhaust.

Flush Sill Airfoil - Flush with the work surface to provide easy access to the hood interior. Spill trough is designed to provide secondary containment in the event a spill escapes the primary containment work top. Air foil is hinged for easy cleaning and allows for cord or hose pass-through.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to reduce duct transition costs, minimize static pressure losses and exhaust noise levels.

Sash Design - 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate - available for special applications. Hoods are supplied with a combination vertical rising and horizontal sliding sashes and a front mounted safety glass shield.

Sash Safety - Sash stops are provided at 18" and 0" to shield the operator while improving fume containment and reducing energy consumption. 37-1/2" viewing height.

Electrical - One combination light switch/electrical receptacle on one post, the other post receives one duplex receptacle, both for 120 volt service and UL/CSA approved. UL/CSA approved fluorescent light fixture provided. T5 fluorescent or LED lighting are available options.

Plumbing - Corner posts are pre-punched to accept plumbing fittings as shown in the image above. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Combination Sash (Cable Sash System)				Horizontal Glass Panels					
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor	Panel Width	Width Opening	Height Opening	# of Panels
48"	7241010	7243010	7246010	7244010	7245010	9-3/4"	16"	27"	4
60"	7341010	7343010	7346010	7344010	7345010	12-3/4"	22"	27"	4
72"	7441010	7443010	7446010	7444010	7445010	15-3/4"	28"	27"	4
96"	7541010	7543010	7546010	7544010	7545010	14-13/16"	38-7/8"	27"	6
1513mm	7C41010	7C43010	7C46010	7C44010	7C45010	12-5/8"	21-13/16"	27"	4
2000mm	7D41010	7D43010	7D46010	7D44010	7D45010	11-15/16"	30-1/4"	27"	6

Combination Sash (Chain & Sprocket Sash System)				Horizontal Glass Panels					
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor	Panel Width	Width Opening	Height Opening	# of Panels
48"	7241050	7243050	7246050	7244050	7245050	9-3/4"	16"	27"	4
60"	7341050	7343050	7346050	7344050	7345050	12-3/4"	22"	27"	4
72"	7441050	7443050	7446050	7444050	7445050	15-3/4"	28"	27"	4
96"	7541050	7543050	7546050	7544050	7545050	14-13/16"	38-7/8"	27"	6
1513mm	7C41050	7C43050	7C46050	7C44050	7C45050	12-5/8"	21-13/16"	27"	4
2000mm	7D41050	7D43050	7D46050	7D44050	7D45050	11-15/16"	30-1/4"	27"	6

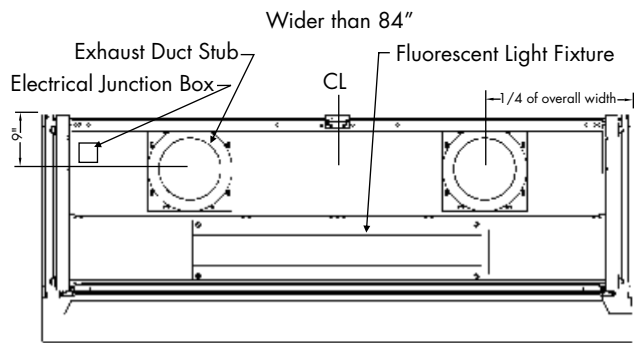
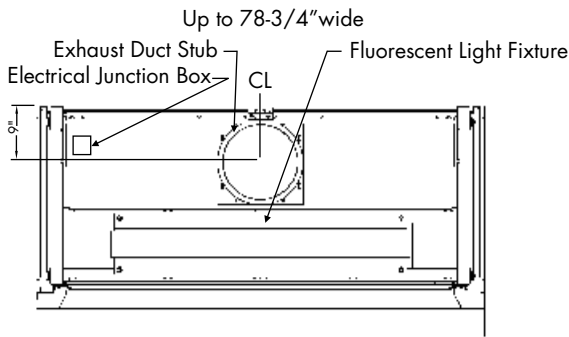
All dimensions and sizes shown are nominal. Specifications and details are based on product information at the time of printing and may change at any time without notice. Mott Manufacturing reserves the right to change dimensions, specifications and manufacturing details at any time without notice.

32-5/8" DEEP FULLY ACCESSIBLE - COMBINATION SASH

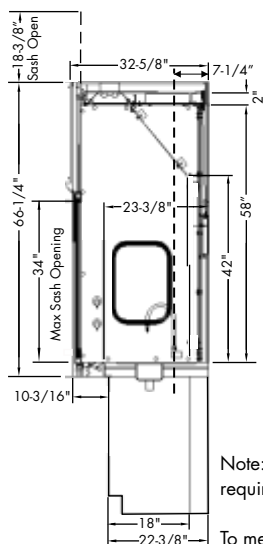
Exhaust Parameters

Hood Size	Duct Dia.	100 FPM 18" Max Sash Opening		100 FPM 28-1/2" Max Sash Opening		80 FPM 18" Max Sash Opening		80 FPM 28-1/2" Max Sash Opening	
		CFM	SP	CFM	SP	CFM	SP	CFM	SP
48"	10"	508	0.09	789	0.20	407	0.06	630	0.15
60"	12"	667	0.07	1035	0.20	533	0.05	830	0.15
72"	12"	825	0.11	1280	0.25	660	0.07	1025	0.20
96"	2@10"	1142	0.11	1772	0.25	913	0.07	1418	0.20
1513mm	12"	660	0.07	1025	0.20	528	0.05	820	0.15
2000mm	12"	914	0.14	1419	0.30	731	0.09	1135	0.20

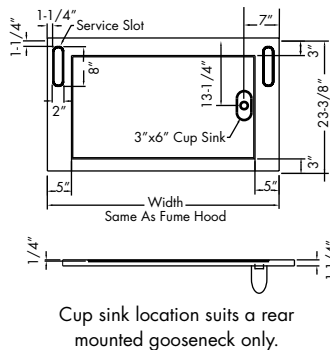
Typical Roof Details



Side Section Details



Work Surface Details



Note: Included with the hood is a 2" high spacer which is required between counter top and base cabinet.

To meet ADA requirements, unit underneath the hood must be 28-3/4" high and knee space depth and width requirements must be met. Contact Mott for details.

39-1/4" DEEP HOPEC IV FULLY ACCESSIBLE - COMBINATION SASH

This fume hood is designed to be accessed from standing and sitting positions. This hood is designed to meet most laboratory Constant Air Volume (CAV) or Variable Air Volume (VAV) requirements and supplied with an automatic compensating upper by-pass. For VAV, use option S2 for restricted by-pass plate. To meet ADA requirements, the hood is designed to mount on a 28-3/4" high unit below the hood. The bench mounted fume hood is supplied with the following standard features:



Counterbalance Systems - Chain and sprocket system delivers the easiest and most reliable sash operation available with an exceptionally long life span. High quality stainless steel cable system provides economical and reliable operation; tested to 100,000 cycles with no failure.

Stainless Steel Airfoil - Aerodynamic design allows air to enter the hood even when the sash is closed ensuring efficient fume exhaust.

Flush Sill Airfoil - Flush with the work surface to provide easy access to the hood interior. Spill trough is designed to provide secondary containment in the event a spill escapes the primary containment work top. Air foil is hinged for easy cleaning and allows for cord and hose pass-through.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to reduce duct transition costs, minimize static pressure losses and exhaust noise levels.

Sash Design - 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate - available for special applications. Hoods are supplied with a combination vertical rising and horizontal sliding sashes and a front mounted safety glass shield.

Sash Safety - Sash stops are provided at 18" and 0" to shield the operator while improving fume containment and reducing energy consumption. 37-1/2" viewing height.

Electrical - One combination light switch/electrical receptacle on one post, the other post receives one duplex receptacle, both for 120 volt service and UL/CSA approved. UL/CSA approved fluorescent light fixture provided. T5 fluorescent or LED lighting are available options.

Plumbing - Corner posts are pre-punched to accept plumbing fittings as shown in the image above. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Combination Sash (Cable Sash System)				Horizontal Glass Panels					
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor	Panel Width	Width Opening	Height Opening	# of Panels
48"	7291010	7293010	7296010	7294010	7295010	9-3/4"	16"	27"	4
60"	7391010	7393010	7396010	7394010	7395010	12-3/4"	22"	27"	4
72"	7491010	7493010	7496010	7494010	7495010	15-3/4"	28"	27"	4
96"	7591010	7593010	7596010	7594010	7595010	14-13/16"	38-7/8"	27"	6
1513mm	7C91010	7C93010	7C96010	7C94010	7C95010	12-5/8"	21-13/16"	27"	4
2000mm	7D91010	7D93010	7D96010	7D94010	7D95010	11-15/16"	30-1/4"	27"	6

Combination Sash (Chain & Sprocket Sash System)				Horizontal Glass Panels					
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor	Panel Width	Width Opening	Height Opening	# of Panels
48"	7291050	7293050	7296050	7294050	7295050	9-3/4"	16"	27"	4
60"	7391050	7393050	7396050	7394050	7395050	12-3/4"	22"	27"	4
72"	7491050	7493050	7496050	7494050	7495050	15-3/4"	28"	27"	4
96"	7591050	7593050	7596050	7594050	7595050	14-13/16"	38-7/8"	27"	6
1513mm	7C91050	7C93050	7C96050	7C94050	7C95050	12-5/8"	21-13/16"	27"	4
2000mm	7D91050	7D93050	7D96050	7D94050	7D95050	11-15/16"	30-1/4"	27"	6

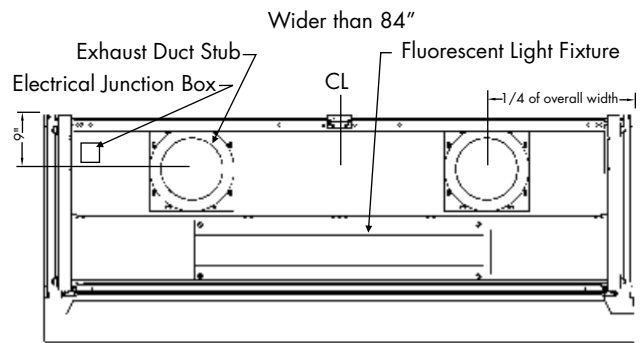
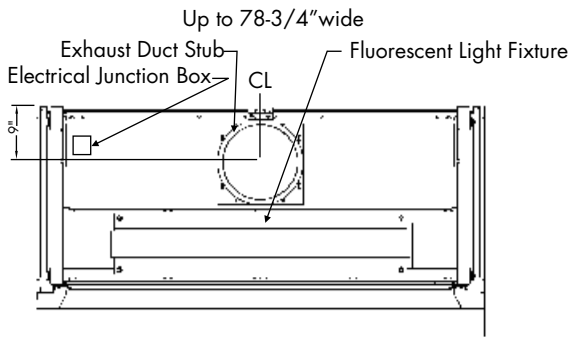
All dimensions and sizes shown are nominal. Specifications and details are based on product information at the time of printing and may change at any time without notice. Mott Manufacturing reserves the right to change dimensions, specifications and manufacturing details at any time without notice.

39-1/4" DEEP HOPEC IV FULLY ACCESSIBLE - COMBINATION SASH

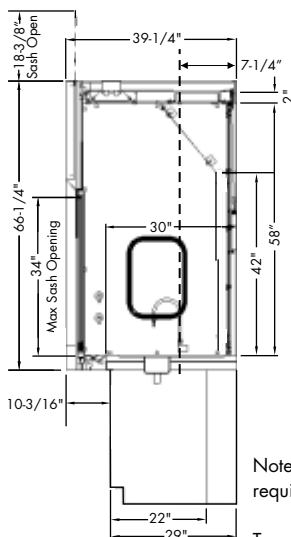
Exhaust Parameters

Hood Size	Duct Dia.	100 FPM 18" Max Sash Opening		100 FPM 28-1/2" Max Sash Opening		80 FPM 18" Max Sash Opening		80 FPM 28-1/2" Max Sash Opening	
		CFM	SP	CFM	SP	CFM	SP	CFM	SP
48"	10"	508	0.09	789	0.20	407	0.06	630	0.15
60"	12"	667	0.07	1035	0.20	533	0.05	830	0.15
72"	12"	825	0.11	1280	0.25	660	0.07	1025	0.20
96"	2@10"	1142	0.11	1772	0.25	913	0.07	1418	0.20
1513mm	12"	660	0.07	1025	0.20	528	0.05	820	0.15
2000mm	12"	914	0.14	1419	0.30	731	0.09	1135	0.20

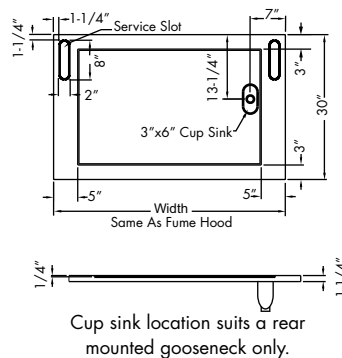
Typical Roof Details



Side Section Details



Work Surface Details



Note: Included with the hood is a 2" high spacer which is required between counter top and base cabinet.

To meet ADA requirements, unit underneath the hood must be 28-3/4" high and kneespace depth and width requirements must be met. Contact Mott for details.

PRO FLOOR MOUNTED - DUAL VERTICAL SASH

This general purpose fume hood is designed to meet most laboratory Constant Air Volume (CAV) and Variable Air Volume (VAV) requirements and supplied with a restricted upper by-pass. Designed to sit directly on the laboratory floor. The Pro floor mounted fume hood is supplied with the following standard features:



Chain Drive Sash - Chain and sprocket mechanism that delivers the easiest and most reliable sash operation available with an exceptionally long life span.

Sash Design - 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hoods are supplied with dual vertical rising sashes. Floor mounted fume hoods are designed to operate with only one sash open. Sash closes within 1" off the floor.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to reduce duct transition costs, minimize static pressure losses and exhaust noise levels.

Electrical - Two UL/CSA approved duplex receptacles provided for 120 volt service, one on each corner post. UL/CSA approved fluorescent light fixture and switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Both corner posts are pre-punched to accept a maximum of five plumbing fittings per post. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110-2016. Test results available upon request.

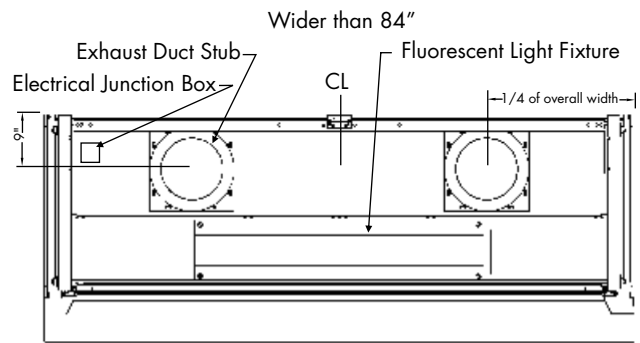
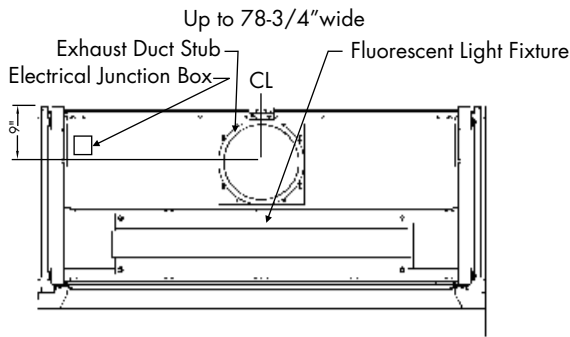
Vertical Raising Sash (Chain & Sprocket Sash System)					
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor
36"	7121041	7123041	7126041	7124041	7125041
48"	7221041	7223041	7226041	7224041	7225041
60"	7321041	7323041	7326041	7324041	7325041
72"	7421041	7423041	7426041	7424041	7425041
96"	7521041	7523041	7526041	7524041	7525041
1000mm	7B21041	7B23041	7B26041	7B24041	7B25041
1513mm	7C21041	7C23041	7C26041	7C24041	7C25041
2000mm	7D21041	7D23041	7D26041	7D24041	7D25041

PRO FLOOR MOUNTED - DUAL VERTICAL SASH

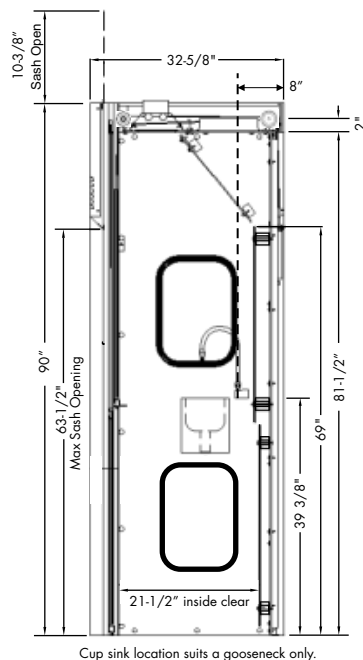
Exhaust Parameters

Hood Size	Duct Dia.	100 FPM 18" Max, Upper Sash Opening		100 FPM 28-1/2" Max Sash Opening		80 FPM 18" Max, Upper Sash Opening		80 FPM 28-1/2" Max Sash Opening	
		CFM	SP	CFM	SP	CFM	SP	CFM	SP
36"	10"	350	0.04	543	0.10	280	0.03	434	0.05
48"	10"	508	0.09	789	0.20	407	0.06	630	0.15
60"	12"	667	0.07	1035	0.20	533	0.05	830	0.15
72"	12"	825	0.11	1280	0.25	660	0.07	1025	0.20
96"	2@10"	1142	0.11	1772	0.25	913	0.07	1418	0.20
1000mm	10"	395	0.05	612	0.15	316	0.04	490	0.10
1513mm	12"	660	0.07	1025	0.20	528	0.05	820	0.15
2000mm	12"	914	0.14	1419	0.30	731	0.09	1135	0.20

Typical Roof Details



Side Section Details



PRO FLOOR MOUNTED - DUAL VERTICAL SASH WITH UPPER COMBINATION SASH

This general purpose fume hood is designed to meet most laboratory Constant Air Volume (CAV) and Variable Air Volume (VAV) requirements and supplied with a restricted upper by-pass. Designed to sit directly on the laboratory floor. The Pro floor mounted fume hood is supplied with the following standard features:



Chain Drive Sash - Chain and sprocket mechanism that delivers the easiest and most reliable sash operation available with an exceptionally long life span.

Sash Design - 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hoods are supplied with dual vertical rising sashes with upper combination sash. Floor mounted fume hoods are designed to operate with only one sash open. Sash closes within 1" off the floor.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to reduce duct transition costs, minimize static pressure losses and exhaust noise levels.

Electrical - Two UL/CSA approved duplex receptacles provided for 120 volt service, one on each corner post. UL/CSA approved fluorescent light fixture and switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Both corner posts are pre-punched to accept a maximum of five plumbing fittings per post. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Width	Vertical Sash With Upper Combination Sash (Chain & Sprocket Sash System)					Horizontal Glass Panels			
	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor	Panel Width	Width Opening	Height Opening	# of Panels
48"	7221051	7223051	7226051	7224051	7225051	9-3/4"	16"	32-3/4"	4
60"	7321051	7323051	7326051	7324051	7325051	12-3/4"	22"	32-3/4"	4
72"	7421051	7423051	7426051	7424051	7425051	15-3/4"	28"	32-3/4"	4
96"	7521051	7523051	7526051	7524051	7525051	14-13/16"	38-7/8"	32-3/4"	6
1513mm	7C21051	7C23051	7C26051	7C24051	7C25051	12-5/8"	21-13/16"	32-3/4"	4
2000mm	7D21051	7D23051	7D26051	7D24051	7D25051	11-15/16"	30-1/4"	32-3/4"	6

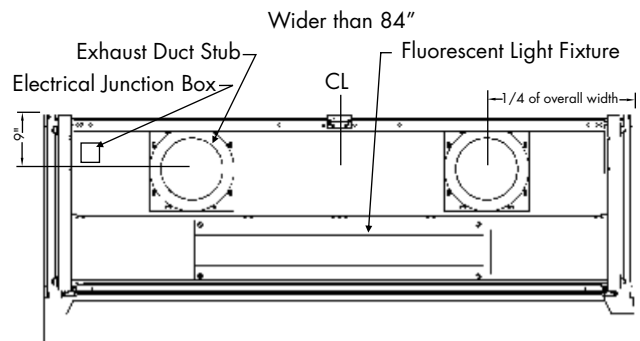
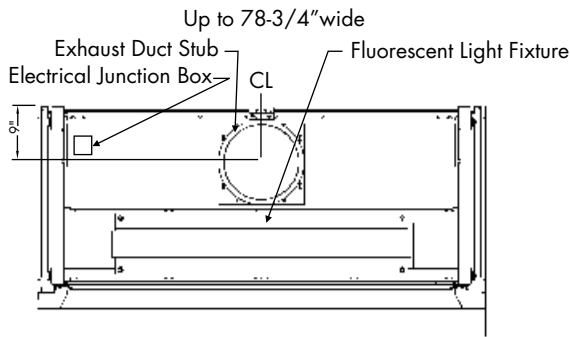
PRO FLOOR MOUNTED - DUAL VERTICAL SASH WITH UPPER COMBINATION SASH

Exhaust Parameters

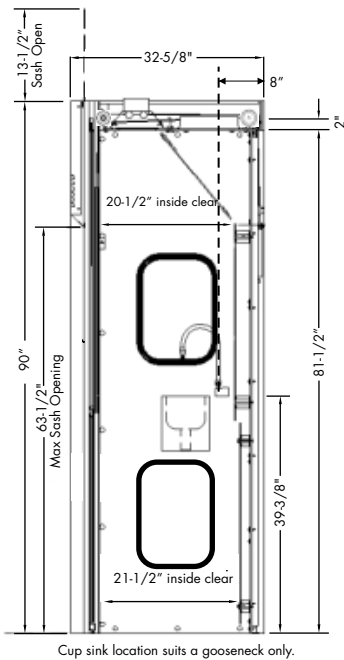
Hood Size	Duct Dia.	100 FPM 18" Max Sash Opening		100 FPM Upper Door Only 1/2 Open		80 FPM 18" Max Sash Opening		80 FPM Upper Door Only 1/2 Open	
		CFM	SP	CFM	SP	CFM	SP	CFM	SP
48"	10"	508	0.09	394	0.05	407	0.06	315	0.05
60"	12"	667	0.07	517	0.05	533	0.05	414	0.05
72"	12"	825	0.11	640	0.10	660	0.07	512	0.05
96"	2@10"	1142	0.11	886	0.10	913	0.07	709	0.05
1513mm	12"	660	0.07	513	0.10	528	0.05	410	0.05
2000mm	12"	914	0.14	709	0.10	731	0.09	567	0.05

Note: Exhaust parameters are based on lower sash door closed during active use.

Typical Roof Details



Side Section Details



PRO FLOOR MOUNTED - HORIZONTAL SLIDING SASH

This general purpose fume hood is designed to meet most laboratory Constant Air Volume (CAV) and Variable Air Volume (VAV) requirements and supplied with a restricted upper by-pass. Designed to sit directly on the laboratory floor. The Pro floor mounted fume hood is supplied with the following standard features:



Sash Design - 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hoods are supplied with horizontal sliding sashes. Floor mounted fume hoods are designed to operate with only one sash open.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to reduce duct transition costs, minimize static pressure losses and exhaust noise levels.

Electrical - Two UL/CSA approved duplex receptacles provided for 120 volt service, one on each corner post. UL/CSA approved fluorescent light fixture and switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Both corner posts are pre-punched to accept a maximum of five plumbing fittings per post. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

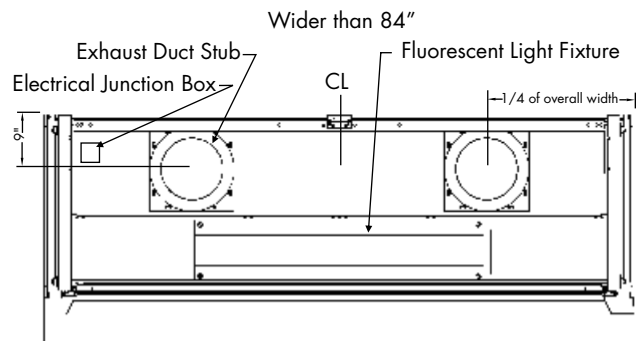
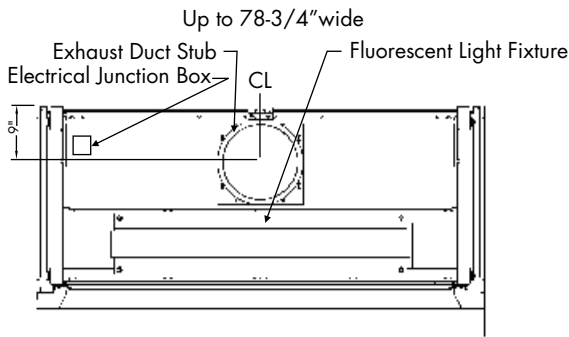
Stainless Steel Horizontal Sliding Sash						Horizontal Glass Panels			
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor	Panel Width	Width Opening	Height Opening	# of Panels
48"	7221021	7223021	7226021	7224021	7225021	9-3/4"	18-3/4"	68-1/8"	4
60"	7321021	7323021	7326021	7324021	7325021	12-3/4"	23-11/16"	68-1/8"	4
72"	7421021	7423021	7426021	7424021	7425021	15-3/4"	29-11/16"	68-1/8"	4
96"	7521021	7523021	7526021	7524021	7525021	14-13/16"	41-11/16"	68-1/8"	6
120"	7621021	7623021	7626021	7624021	7625021	19-1/4"	52-5/8"	68-1/8"	6
144"	7H21021	7H23021	7H26021	7H24021	7H25021	23-1/4"	64-5/8"	68-1/8"	6
1513mm	7C21021	7C23021	7C26021	7C24021	7C25021	12-5/8"	23-1/2"	68-1/8"	4
2000mm	7D21021	7D23021	7D26021	7D24021	7D25021	11-15/16"	33-1/16"	68-1/8"	6

PRO FLOOR MOUNTED - HORIZONTAL SLIDING SASH

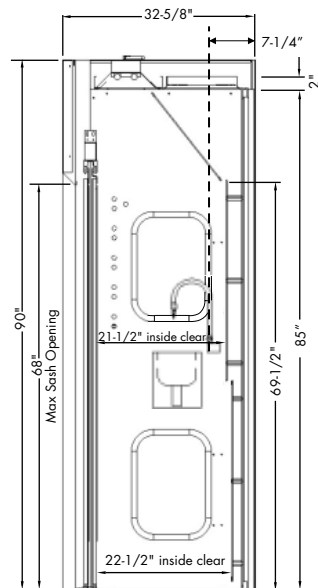
Exhaust Parameters

Hood Size	Duct Dia.	100 FPM ½ Sliding Doors Open		80 FPM ½ Sliding Doors Open	
		CFM	SP	CFM	SP
48"	10"	849	0.25	680	0.20
60"	12"	1113	0.20	890	0.15
72"	12"	1378	0.35	1102	0.20
96"	2@10"	1907	0.35	1525	0.20
120"	2@10"	2436	0.25	1950	0.15
144"	2@10"	2965	0.35	2373	0.25
1513mm	12"	1104	0.20	884	0.15
2000mm	12"	1527	0.40	1221	0.25

Typical Roof Details



Side Section Details



Cup sink location suits a gooseneck only.

PRO DISTILLATION FUME HOOD - DUAL VERTICAL SASH

This general purpose fume hood is designed to meet most laboratory Variable Air Volume (VAV) requirements and supplied with a restricted upper by-pass. Designed to mount on a 30" deep counter top. The Pro bench mounted fume hood is supplied with the following standard features:



Chain Drive Sash - Chain and sprocket mechanism that delivers the easiest and most reliable sash operation available with an exceptionally long life span.

Stainless Steel Airfoil - Aerodynamic raised design allows air to enter the fume hood even when the sash is closed ensuring efficient fume exhaust. Notches in both corners allow electrical wiring or tubing into the fume hood while still permitting full closure of the sash.

Sash Design - 6mm laminated safety glass is provided with a stainless steel handle and side runners, optional tempered glass or polycarbonate available for special applications. Hoods are supplied with dual vertical rising sashes. 58-1/2" viewing height.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to reduce duct transition costs, minimize static pressure losses and exhaust noise levels.

Electrical - Two UL/CSA approved duplex receptacles provided for 120 volt service, one on each corner post. UL/CSA approved fluorescent light fixture and switch provided. T5 fluorescent or LED lighting are available options.

Plumbing - Both corner posts are pre-punched to accept a maximum of five plumbing fittings per post. Factory pre-plumbing is available as well as plumbing fixtures from a variety of manufacturers to meet most plumbing needs.

Access Panels - Interior gasketed access panels provide convenient access and prevent fume leakage outside the hood chamber. Exterior side panels are also removable for ease of access to plumbing and electrical service fixtures.

Agency Approvals - UL 1805 Classified, CSA certified to UL 61010 and tested in accordance with ASHRAE 110. Test results available upon request.

Vertical Raising Sash (Chain & Sprocket Sash System)					
Width	FRP	PVC	Epoxy	316 S/S Sq. Cor	316 S/S Rad. Cor
36"	7121044	7123044	7126044	7124044	7125044
48"	7221044	7223044	7226044	7224044	7225044
60"	7321044	7323044	7326044	7324044	7325044
72"	7421044	7423044	7426044	7424044	7425044
96"	7521044	7523044	7526044	7524044	7525044
1000mm	7B21044	7B23044	7B26044	7B24044	7B25044
1513mm	7C21044	7C23044	7C26044	7C24044	7C25044
2000mm	7D21044	7D23044	7D26044	7D24044	7D25044

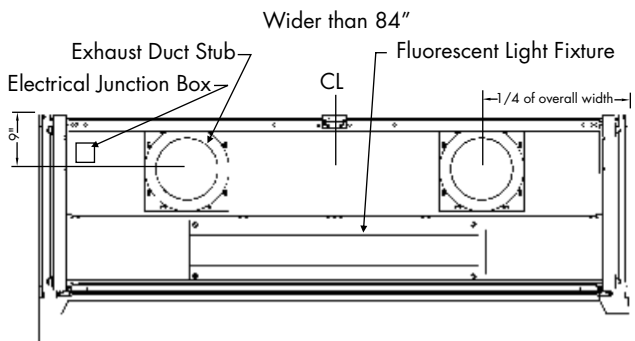
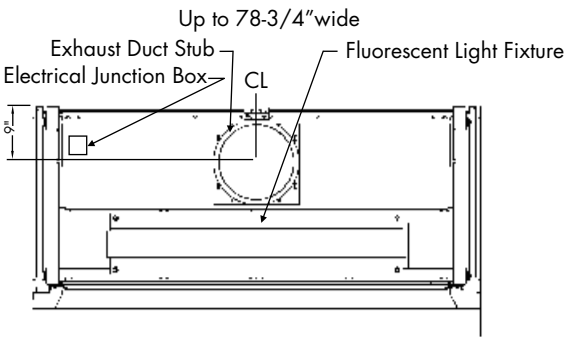
PRO DISTILLATION FUME HOOD - DUAL VERTICAL SASH

Exhaust Parameters

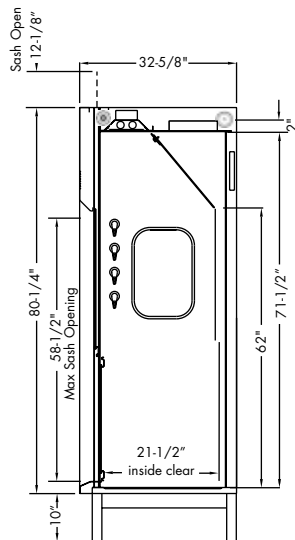
Hood Size	Duct Dia.	100 FPM 18" Max, Upper Sash Opening		100 FPM 28-1/2" Max* Sash Opening		80 FPM 18" Max, Upper Sash Opening		80 FPM 28-1/2" Max* Sash Opening	
		CFM	SP	CFM	SP	CFM	SP	CFM	SP
36"	10"	350	0.04	543	0.10	280	0.03	434	0.05
48"	10"	508	0.09	789	0.20	407	0.06	630	0.15
60"	12"	667	0.07	1035	0.20	533	0.05	830	0.15
72"	12"	825	0.11	1280	0.25	660	0.07	1025	0.20
96"	2@10"	1142	0.11	1772	0.25	913	0.07	1418	0.20
1000mm	10"	395	0.05	612	0.15	316	0.04	490	0.10
1513mm	12"	660	0.07	1025	0.20	528	0.05	820	0.15
2000mm	12"	914	0.14	1419	0.30	731	0.09	1135	0.20

* 28-1/2" max sash opening is recommended for set-up and tear down only.

Typical Roof Details



Side Section Details



Distillation Table



Distillation Table	
Width	Item Number
36"	DTF1036
48"	DTF1048
60"	DTF1060
72"	DTF1072
96"	DTF1096
1000mm	DTF100B
1513mm	DTF100C
2000mm	DTF100D

- Fully welded tables are 9-3/4" high x 29" deep with 2" square tube legs and supplied with leveling glides.
- Tables larger than 48" wide are supplied with six legs (note: 48" wide unit shown).
- Tables will support an 1800lb load.
- Comes with PVC boots and levelers.

SELECT VENTILATED WORK STATION - VERTICAL SASH EXHAUST DEVICE

This cost effective ventilation work station is designed to meet the requirements of some school laboratory applications. Designed to mount on a 30" deep counter top. This hood is designed to meet most laboratory Constant Air Volume (CAV) or Variable Air Volume (VAV) requirements. For VAV, use option S2 for restricted by-pass plate. The Select bench mounted work station is supplied with the following standard features:



Construction - 2" wide thin wall construction.

Counterbalance System - High quality stainless steel cable system provides economical and reliable operation; tested to 100,000 cycles with no failure.

Sash Design - 6mm laminated safety glass is provided with a stainless steel handle and side runners. Hoods are provided with a vertical rising sash. Note, sash closes 1" of the counter top.

Stainless Steel Type 316 Exhaust Collar - Round collar with radiused corners allows for direct connection to exhaust duct to reduce duct transition costs, minimize static pressure losses and exhaust noise levels.

Electrical - UL/CSA approved florescent light fixture and switch provided.

Access Panels - Exterior side panels are removable.

Note: Unit is not UL or CSA approved.

Vertical Raising Sash

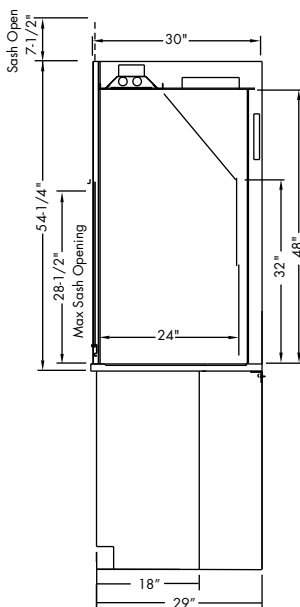
Width	Part Number
36"	VWS0036
48"	VWS0048
60"	VWS0060
72"	VWS0072
96"	VWS0096
1000mm	VWS000B
1513mm	VWS000C

Exhaust Parameters

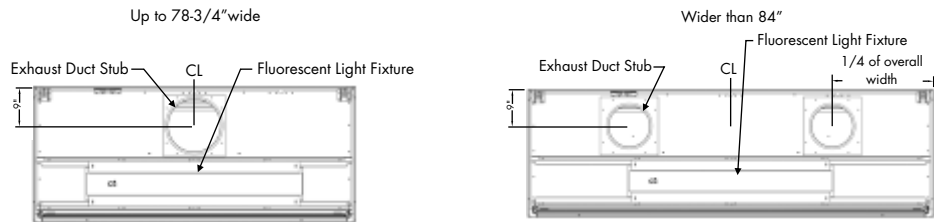
Hood Size	Duct Dia.	100 FPM 18" Max Sash Opening		100 FPM 28-1/2" Max* Sash Opening		80 FPM 18" Max Sash Opening		80 FPM 28-1/2" Max* Sash Opening	
		CFM	SP	CFM	SP	CFM	SP	CFM	SP
36"	10"	400	0.05	633	0.14	320	0.04	507	0.09
48"	10"	550	0.10	871	0.25	440	0.06	697	0.17
60"	12"	700	0.08	1109	0.20	560	0.05	887	0.13
72"	12"	850	0.12	1346	0.30	680	0.08	1077	0.19
96"	2@10"	1150	0.12	1821	0.28	920	0.07	1457	0.18
1000mm	10"	442	0.07	700	0.17	354	0.05	560	0.10
1513mm	12"	693	0.08	1099	0.20	555	0.05	879	0.13

* 28-1/2" max sash opening is recommended for set-up and tear down only.

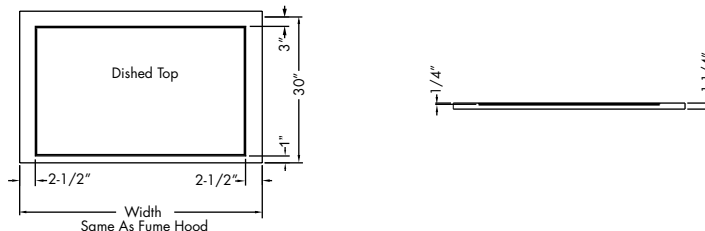
Side Section Details



Typical Roof Details



Work Surface Details



SPRAY BOOTH

EXHAUST DEVICE

This spray booth is designed for simple nontoxic exhaust operations. Designed to mount on a 24" deep counter top, the hood is designed to be used with a Constant Air Volume exhaust system and does not include a fan. The spray booth bench mounted unit is supplied with the following standard features:



Construction - Steel, thin wall construction with laboratory grade powder coating. Supplied with integrated steel bottom for easier cleaning. Air filter provided.

Steel Exhaust Collar - Round collar allows for direct connection to exhaust duct.

Electrical - UL/CSA approved fluorescent light fixture (24" wide unit supplied with incandescent light). To be field wired to remote switch.

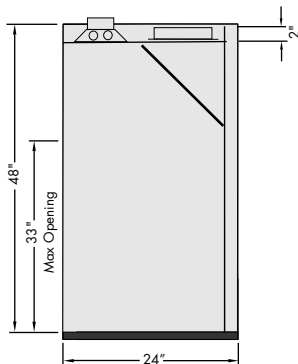
Note: Unit is not UL or CSA approved.

Spray Booth	
Width	Part Number
24"	8101000
30"	8201000
36"	8301000
48"	8401000
60"	8501000

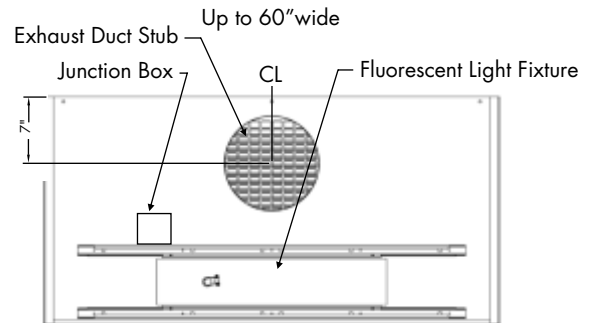
Exhaust Parameters

Hood Size	Duct Dia.	100 FPM 33" Max Opening	
		CFM	SP
24"	10"	505	0.05
30"	10"	642	0.80
36"	10"	780	0.80
48"	10"	1055	1.00
60"	10"	1330	1.00

Side Section Details



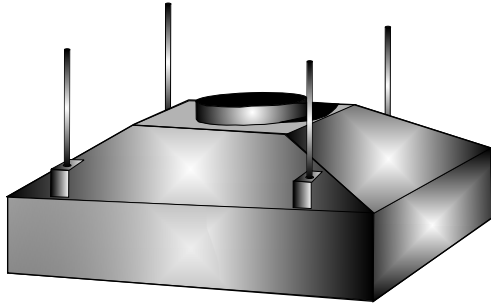
Typical Roof Details



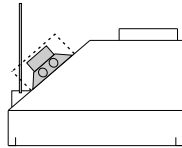
WALL & ISLAND CANOPIES

EXHAUST DEVICE

Exhaust canopies are primarily used to exhaust steam, odors, and heat in a work area where the expense and capabilities of a fume hood are not justified.



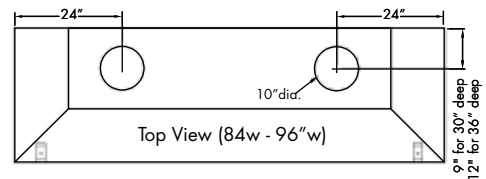
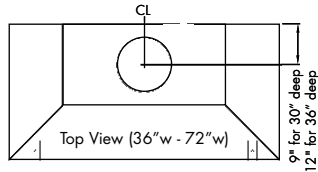
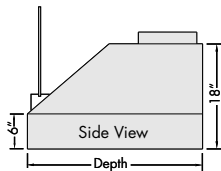
- Available in either wall or island configurations.
- Available in powder coated steel, type 304 and 316 stainless steel.
- Integrally welded construction.
- Integral continuous condensation catch edge.
- Integral duct stub.
- Steel rod suspension.
- Standard fixed baffle (not available with fluorescent light option).



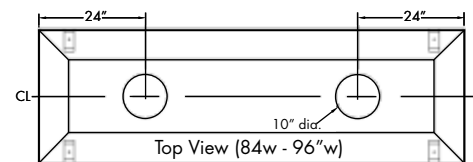
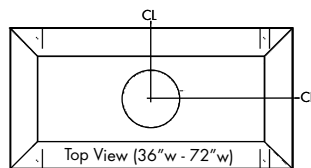
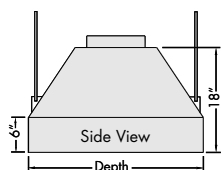
Optional Fluorescent Light Fixture

- Use option code E6 for UL/CSA approved fluorescent light fixture complete with bulbs and light enclosure.
- Fixed baffle not available when ordering fluorescent light.
- Wire from light to junction box is not concealed.

Wall Canopy Hoods			
Width	Duct Dia.	30" Deep	36" Deep
36"	10"	CWP1236	CWP1336
48"	10"	CWP1248	CWP1348
60"	12"	CWP1260	CWP1360
72"	12"	CWP1272	CWP1372
84"	2 @ 10"	CWP1284	CWP1384
96"	2 @ 10"	CWP1296	CWP1396
1000mm	10"	CWP120A	CWP130A
1513mm	12"	CWP120B	CWP130B
2000mm	12"	CWP120C	CWP130C



Island Canopy Hoods			
Width	Duct Dia.	30" Deep	36" Deep
36"	10"	CIP1236	CIP1336
48"	10"	CIP1248	CIP1348
60"	12"	CIP1260	CIP1360
72"	12"	CIP1272	CIP1372
84"	2 @ 10"	CIP1284	CIP1384
96"	2 @ 10"	CIP1296	CIP1396
1000mm	10"	CIP120A	CIP130A
1513mm	12"	CIP120B	CIP130B
2000mm	12"	CIP120C	CIP130C



OVAL AIR STATION

EXHAUST DEVICE

Oval Air Stations provide a ventilated workstation for student experiments. Workstations pull air to reduce odors, vapors, and aerosols when connected to a building's exhaust system.

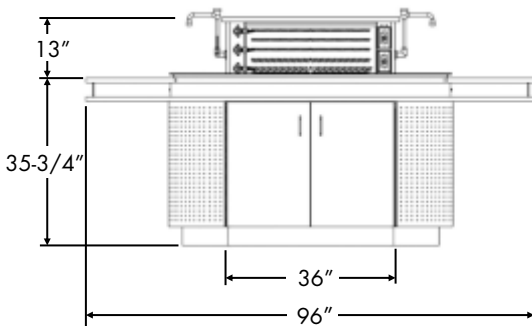
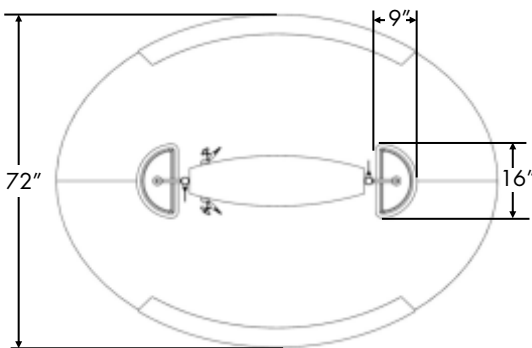


A HED vision, engineered by Mott

Exhaust Parameters

Duct Dia.	CFM	SP
3" x 10"	350	0.2

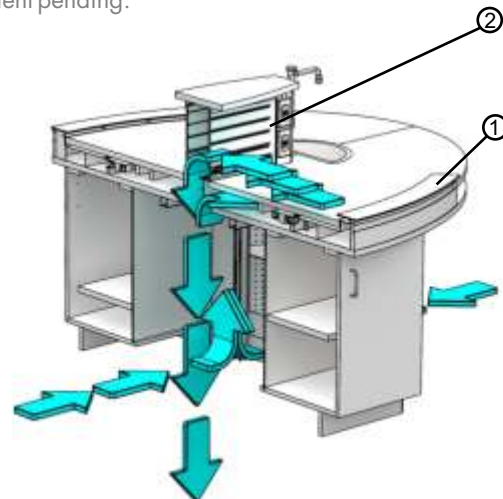
Details



Item Number

OAS1096

- Overall assembly is 96" wide x 72" deep x 48-3/4" high with work surface located at 35-3/4" high.
- Two 36" wide Maple (with Natural stain) Full Flush Overlay door cabinets with removable backs provided each cabinet has one adjustable shelf. Stainless steel wire pulls and stainless steel hinges provided.
- Push fan provides constant airflow and is housed in drawer which is removable with push pin locks to allow for easy cleaning in case of a spill.
- Removable type 304 stainless steel perforated access panels for easy accessibility to electrical and plumbing components, makes installation and maintenance easy.
- Three fixtures (Vacuum, Air and Gas), plus cold water provided per side. Factory pre-wiring and pre-piping down is standard to utilities below.
- 3 circuits is standard, one per 2 duplexes per side and one dedicated to the fans.
- Two UL/CSA approved GFI 120v/20amp duplex receptacles provided per side. Data an available option.
- Indicator available to alert users if main exhaust system shuts off.
- Two single 16" long x 9" wide x 8" deep (ID), "D" shaped compartment sinks and two-tiered 1" thick black epoxy work surfaces provided.
- 3" x 10" rectangular exhaust collar (exhaust transitions and dampers by others).
- Shipped unassembled.
- Patent pending.



The push drawer (1) and exhaust housing (2) work together to capture fumes. The internal fan pushes air across the work surface towards the exhaust housing, then the exhaust housing pulls the supplied air down into the building's exhaust system.

FORENSICS CABINET
EXHAUST DEVICE

Forensic cabinets provide protection for lab personnel from harmful fumes and odors generated during the treatment of evidence material. These cabinets provide a controlled environment for the processing of latent fingerprints on most nonporous surfaces while eliminating personnel exposure to hazardous cyanoacrylate fumes. The cabinets contain individually vented chambers of various sizes designed to minimize airflow. Reducing airflow makes the fuming process more effective.



*Lower base cabinet ordered separately

Construction Material - 45lb density particle board core with chemical resistant plastic laminate interior and high-pressure plastic laminate exterior.

Processing Chambers - Both Counter top unit and Floor mounted unit provides three chambers, each chamber can be operated separately.

Security - Tamper proof self-latching stainless steel handles, type 304 stainless steel piano hinges and padlock hasp to protect evidence during the processing.

Electrical - Cabinets are prewired to junction box located at top of unit. Four CSA/UL approved electrical outlets 120V 20AMP and one light switch. Power cord pass-throughs are provided in each chamber.

Safety - Chamber doors include laminated safety glass and vapor proof light fixtures in each chamber.

Exhaust Venting - Counter top unit is provided with a 1-1/2" I.D outlet and the Floor unit is provided with a 2" I.D. outlet. Vent outlet protrudes 4" above the top of both cabinets at rear.

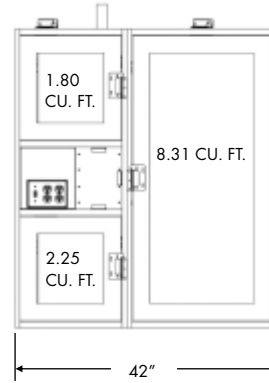
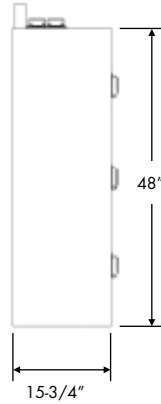
Convenience - Both cabinets include one type 304 stainless steel perforated shelf in larger chamber and a hanging rod in each chamber.

FORENSIC CABINET

EXHAUST DEVICE

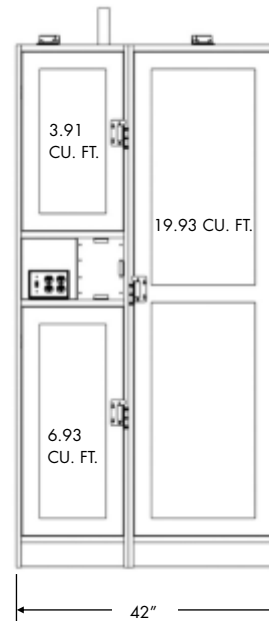
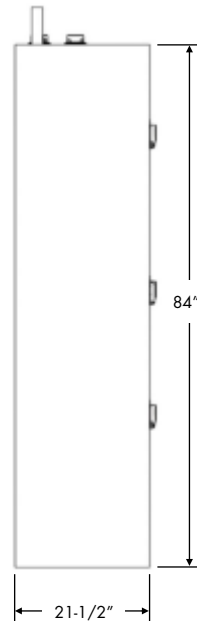
Counter Top Unit

Item Number	Capacity	Exhaust Volume	Exhaust Outlet Diameter
56F0030W	13 Cubic Feet	14 CFM	1.5" I.D.



Floor Mounted Unit

Item Number	Capacity	Exhaust Volume	Exhaust Outlet Diameter
66F0030W	31 Cubic Feet	31 CFM	2" I.D.

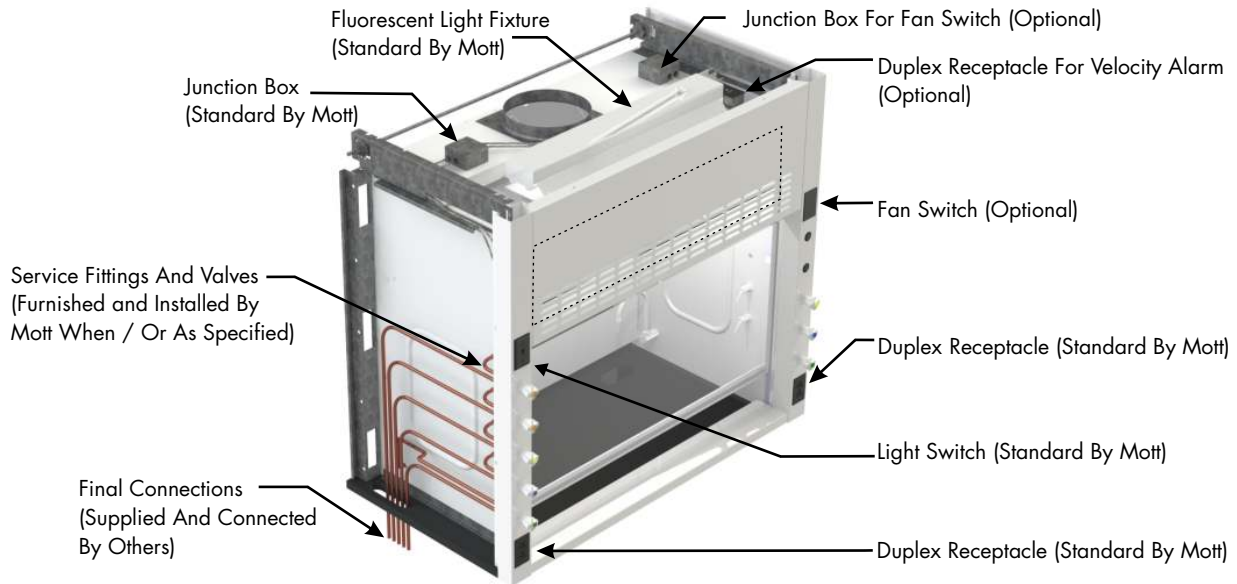


FUME HOOD ELECTRICAL DETAILS

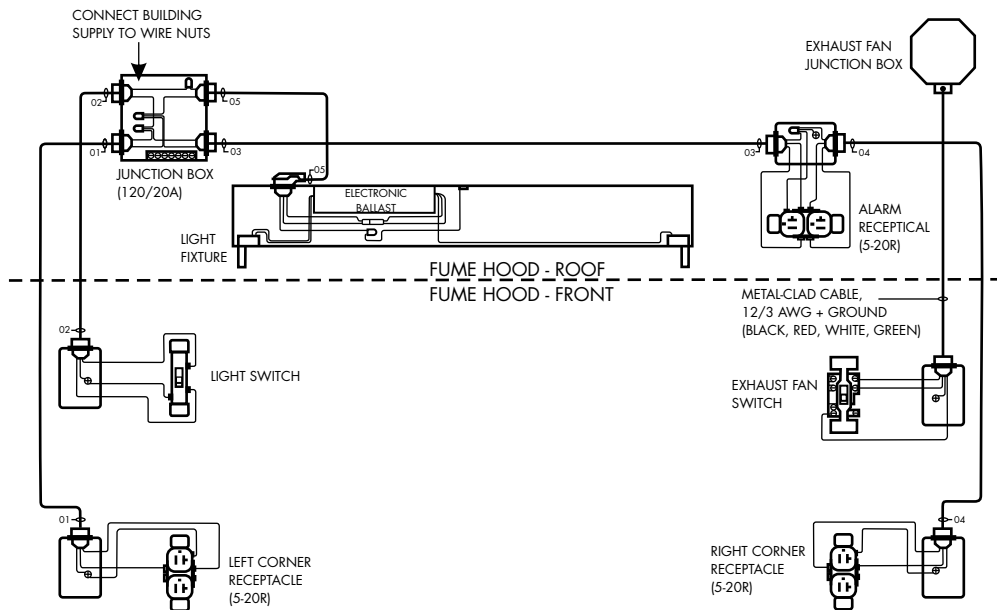
A full line of fume hood electrical fixtures are available to complete the installation of your new fume hood. Please refer to specific fume hoods to identify which fixtures are right for your hood. Fume hoods can be configured with additional options such as LED lights, T5 fluorescent lights, electrically classified lights, polarized and GFCI duplexes, switches and receptacles with various voltage requirements, variable transformers, kill switches and more. For area classifications, anti-arcing devices are available. Specify NEMA code when ordering. For more information please contact Mott Manufacturing.

Typical Electrical Details

This information applies to all fume hoods unless otherwise noted on the specific fume hood page



Typical fume hood wiring diagram showing optional fan switch and velocity alarm duplex.



FUME HOOD PLUMBING FIXTURES

A full line of fume hood fixtures available from most manufacturers to complete the installation of your new fume hood. Plumbing fixtures can be pre-plumbed at the factory in rod-driven or front-loaded remote configurations. They can also be ordered loose to be implemented in existing hoods. Please refer to specific fume hoods to identify which fixtures are right for your hood. Some of the typical fixtures supplied for fume hoods are: Angled serrated hose mounts for gas, air, vacuum, etc., front-loaded remote control valves, rod-driven remote control valves, wall or deck-mounted gooseneck faucets, vacuum breakers, backflow preventers and check valves. For more information please contact Mott Manufacturing.

Typical Plumbing Supply Lines

- .375" OD copper tubing for all services.
- .375" schedule 40 black pipe for natural gas in USA only.
- Note: .375" OD copper tube for Gas in Canada.



Typical Fume Hood Plumbing Details

Plumbing Pre-Piped Down To Bottom



Plumbing Pre-Piped Up To Top



Fume Hood Fixture Hole Covers



Front Load & Rod Type
Exterior Plug
Available: Black or White



Front Load & Rod Type
Exterior Plug
Available: Stainless or Painted



White Interior Plug



Stainless Steel Interior Plug

Item Number	Front Load Exterior Application
HCBFE00	1-1/4" Dia. Black Plug for Plumbing Holes
HCWFE00	1-1/4" Dia. White Plug for Plumbing Holes
HCSFE00	1-1/4" Dia. Stainless Plug for Plumbing Holes
HCPFE00	1-1/4" Dia. Painted Stainless Plug for Plumbing Holes

- These plugs are used to cover exterior fixture plumbing holes in various materials on a fume hood plumbed with front load fixtures.

Item Number	Rod Type Exterior Application
HCBRE00	1 1/16" Dia. Black Plug for Plumbing Holes
HCWRE00	1 1/16" Dia. White Plug for Plumbing Holes
HCSRE00	1 1/16" Dia. Stainless Plug for Plumbing Holes
HCPRE00	1 1/16" Dia. Painted Stainless Plug for Plumbing Holes

- These plugs are used to cover exterior fixture plumbing holes in various materials on a fume hood plumbed with rod type fixtures.

Item Number	Interior Application
HCSN100	3/4" Dia. White Plug for Plumbing Holes
HCWA100	1" Dia. White Plug for Alarm Holes
HCSN100	3/4" Dia. Stainless Plug for Plumbing Holes

- These plugs are used to cover interior fixture plumbing and alarm holes in various materials on any fume hood.

FUME HOOD OPTIONS

Tri-Access Door System For Floor Mounted Fume Hoods

The Mott Pivot™ tri-access door system for floor mounted fume hoods offers unprecedented access to the fume hood chamber.



- The Mott Pivot™ offers unparalleled fume hood chamber access and efficiency in equipment set-up and teardown situations.
- Designed for Pro Series floor mounted fume hoods with horizontal sliding sashes.
- 72" wide and larger receive two hinged doors; maximum hood width 120" wide.
- Traditional horizontal sliding sashes and additional smaller horizontal sashes in each glass panel.
- Slide one horizontal sash fully to the side of the hood. Disengage the quick release latch and the door pivots to a fully open condition. Repeat with the second horizontal sash.
- Contact Mott for more information on this option including airflow details.

ADA Fume Hood Table

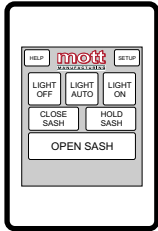
Width	With Left Hand ADA Sink Enclosure	With Right Hand ADA Sink Enclosure	No Enclosure Table Only
48"	HTL2148	HTR2148	HTP0148
60"	HTL2160	HTR2160	HTP0160
72"	HTL2172	HTR2172	HTP0172



- Fully welded "U" frame table with plumbing enclosure (unless 'Table Only' part chosen), modesty panel and end filler panels.
- For use at wall conditions only.
- Height adjustable from 28-3/4" to 34-3/4" in 1" increments.
- 2" x 2" tube construction.
- Table fits standard depth (32-5/8" deep) fume hoods.
- Snap off access panel on inside of plumbing enclosure.
- Maximum load rating is 1000lbs.

FUME HOOD OPTIONS

Automatic Sash Operator 2 (ASO2)

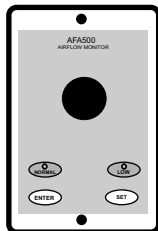


Option Code

SM

- Works with Variable Air Volume (VAV) systems to maximize energy efficiency and laboratory safety.
- LCD touch screen control system operates and displays all system functions.
- Motion sensor and a motorized operated sash that automatically closes when the fume hood is left unattended.
- Obstruction sensing feature.
- Factory installed on a bench chain drive single sash hood.

Audio/Visual Fume Hood Alarm

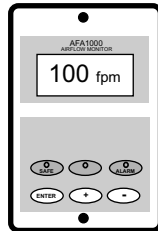


Item Number

ALARM05

- The fume hood velocity alarm is used to make sure that the face velocity does not drop below an unsafe level.
- This part ships loose.

Audio/Visual Fume Hood Alarm

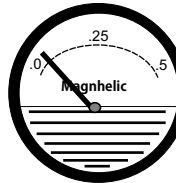


Item Number

ALARM04

- The fume hood velocity alarm is used to make sure that the face velocity does not drop below an unsafe level.
- Digital display of face velocity.
- This part ships loose.

Magnehelic Differential Pressure Gage



Item Number

MAGGAGE

- Used to monitor pressure drop across induct filters.
- When ordered as an option code, it is factory installed in upper front panel.
- Tubing connections are made in the field.
- This part ships loose.

Plastic Sash Stop

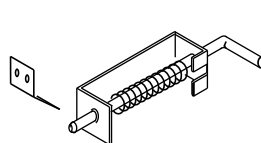


Item Number

PLSHSTP

- The sash stop is designed to stop the sash at a pre-determined height.
- Can be manually overridden for apparatus setup.
- Sash stop is to be placed behind sash handle.
- Standard sash stop provided when option code S3 or S4 are selected .
- This part ships loose.

Stainless Steel Sash Stop



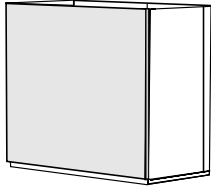
Item Number

SASHSTP

- The sash stop is designed to stop the sash at a pre determined height.
- Can be manually overridden for apparatus setup.
- Sash stop is hidden behind sash handle when factory installed.
- This part ships loose.

FUME HOOD ENCLOSURE & FILLER PANELS

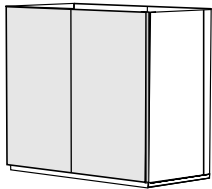
Finished Back Panels



- Finished back panels are used to close off the back of a fume hood when the back is in plain view (ex: island applications).
- Actual panel height is 53", 65" or 90".
- Finished Back Panels are held in place with screws.

Finished Back Panels for Fume Hoods				
Width	Fume Hood Height 54-1/4"	Fume Hood Height 66-1/4"	Fume Hood Height 90"	Optima™ Fume Hood
36"	FBP3036	FBP4036	FBP5036	-
48"	FBP3048	FBP4048	FBP5048	FBP7048
60"	FBP3060	FBP4060	FBP5060	FBP7060
72"	FBP3072	FBP4072	FBP5072	FBP7072
96"	FBP3096	FBP4096	FBP5096	-
1000mm	FBP300B	FBP400B	FBP500B	-
1513mm	FBP300C	FBP400C	FBP500C	-
2000mm	FBP300D	FBP400D	FBP500D	-

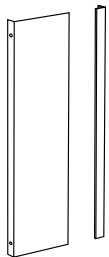
Structural Finished Back Panels



- Finished back panels are used to close off the back of a fume hood when the back is in plain view (ex: island applications).
- Structural Finished Back Panel adds 1" to the overall depth of the fume hood and is supplied in two pieces.
- Mounting screws are concealed under plastic plugs.
- Actual panel height is 53", 65" or 90".

Structural Finished Back Panels for Fume Hoods				
Width	Fume Hood Height 54-1/4"	Fume Hood Height 66-1/4"	Fume Hood Height 90"	Optima™ Fume Hood
36"	EBP3036	EBP4036	EBP5036	-
48"	EBP3048	EBP4048	EBP5048	EBP7048
60"	EBP3060	EBP4060	EBP5060	EBP7060
72"	EBP3072	EBP4072	EBP5072	EBP7072
96"	EBP3096	EBP4096	EBP5096	-
1000mm	EBP300B	EBP400B	EBP500B	-
1513mm	EBP300C	EBP400C	EBP500C	-
2000mm	EBP300D	EBP400D	EBP500D	-

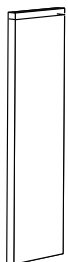
End Cover Panel Scribes



- The End Cover Panel Scribes are used to close spaces between the back of a fume hood and a wall. The Scribe feature allows for easy width adjustment in the field.
- 54-1/4" high

Width	Item Number
1"	ECS6001
2"	ECS6002
3"	ECS6003
4"	ECS6004
5"	ECS6005
6"	ECS6006
7"	ECS6007

End Cover Channels



- The End Cover Channel performs the same task as the End Cover Panel Scribe but is of a fixed width.
- 54-1/4" high

Width	Item Number
1"	ECC6001
2"	ECC6002
3"	ECC6003
4"	ECC6004
5"	ECC6005
6"	ECC6006
7"	ECC6007

FUME HOOD FURRING PANELS

Fume hood furring panels are used to close off the area between the top of a fume hood and the ceiling. Our panels are based on a 108" ceiling height and when hoods are supported on a 34-3/4" high cabinet with a 1-1/4" thick work top.

Furring Panels



- Suitable for 32-5/8" deep Pro or SafeGuard™ hood.
- Furring panels may be ordered with only one side panel or both.
- Furring panel is 19" high.

Width	Front & Side Panel			
	Both	Left	Right	Front Only
36"	FPS9036	FPL9036	FPR9036	FPF9036
48"	FPS9048	FPL9048	FPR9048	FPF9048
60"	FPS9060	FPL9060	FPR9060	FPF9060
72"	FPS9072	FPL9072	FPR9072	FPF9072
96"	FPS9096	FPL9096	FPR9096	FPF9096
120"	FPS900L	FPL900L	FPR900L	FPF900L
144"	FPS900H	FPL900H	FPR900H	FPF900H

Furring Panels with Hinged Access



- Suitable for 32-5/8" deep Pro or SafeGuard™ hood.
- Furring panels may be ordered with only one side panel or both.
- Furring panel is 19" high. Hinged access panel is 12" high.

Width	Front & Side Panel			
	Both	Left	Right	Front Only
36"	FPS9236	FPL9236	FPR9236	FPF9236
48"	FPS9248	FPL9248	FPR9248	FPF9248
60"	FPS9260	FPL9260	FPR9260	FPF9260
72"	FPS9272	FPL9272	FPR9272	FPF9272
96"	FPS9296	FPL9296	FPR9296	FPF9296
120"	FPS920L	FPL920L	FPR920L	FPF920L
144"	FPS920H	FPL920H	FPR920H	FPF920H

Furring Panels with Finished Back



- Suitable for 32-5/8" deep Pro Series and 32-5/8" deep SafeGuard™ fume hoods with finished backs.
- Furring panels are 19" high X 32-5/8" deep.
- If Access Panel option is chosen one access panel is supplied (not shown).

Width	Without Access Panel	With Hinged Access Panel
	36"	FPP9036
48"	FPP9048	FPP9248
60"	FPP9060	FPP9260
72"	FPP9072	FPP9272
96"	FPP9096	FPP9296

Observation2™ Furring Panels



- Snap off front access panel with no exposed fasteners, mounts to top of the hood.
- Furring panels are 12" high and fit on a standard Observation2™ fume hood.

Width	Single-Faced 4 Sided Furring Panel	Double-Faced 4 Sided Furring Panel
	Front & Both Side Panels	
48"	FNV9248	FNV9448
60"	FNV9260	FNV9460
72"	FNV9272	FNV9472

Demonstration Furring Panels



- Suitable for 35-1/4" deep Demonstration hoods.
- Furring panels are 19" high X 35-1/4" deep.
- If Access Panel option is chosen one access panel is supplied (not shown).

Width	Without Access Panel	With Hinged Access Panel
	36"	FPD9036
48"	FPD9048	FPD9248
60"	FPD9060	FPD9260
72"	FPD9072	FPD9272
96"	FPD9096	FPD9296

FUME HOOD FURRING PANELS

Fume hood furring panels are used to close off the area between the top of a fume hood and the ceiling. Our panels are based on a 108" ceiling height and when hoods are supported on a 34-3/4" high cabinet with a 1-1/4" thick work top.

NovaGuard™ Furring Panels



- Snap off front access panel with no exposed fasteners, mounts to top of the hood.
- Furring panels are 19" high and fits on a standard depth NovaGuard™ hood.

Width	4 Sided Furring Panel	Front & Both Side Panels
48"	FPN9448	FPN9348
60"	FPN9460	FPN9360
72"	FPN9472	FPN9372
96"	FPN9496	FPN9396

RFV2™ Furring Panels



- Furring panels may be ordered with only one side panel or both.
- Furring panel is 19" high, 36" deep.

Width	Front and Side Panel			
	Both	Left	Right	Front Only
48"	F2V9048	F2L9048	F2R9048	F2F9048
60"	F2V9060	F2L9060	F2R9060	F2F9060
72"	F2V9072	F2L9072	F2R9072	F2F9072
96"	F2V9096	F2L9096	F2R9096	F2F9096

RFV2™ Furring Panels with Hinged Access



- Furring panels may be ordered with only one side panel or both.
- Furring panel is 19" high, 36" deep. Hinged access panel is 12" high.

Width	Front and Side Panel			
	Both	Left	Right	Front Only
48"	F2V9248	F2L9248	F2R9248	F2F9248
60"	F2V9260	F2L9260	F2R9260	F2F9260
72"	F2V9272	F2L9272	F2R9272	F2F9272
96"	F2V9296	F2L9296	F2R9296	F2F9296

Furring Panel with Front Snap Off Panel



- Snap off front access panel with no exposed fasteners, mounts to top of the hood.
- 3 sided furring panel includes rear wall mounting angles.
- 4 Sided Furring Panels: Demonstration hoods have snap off front and back access panels. All other hoods are supplied with snap off front access only.

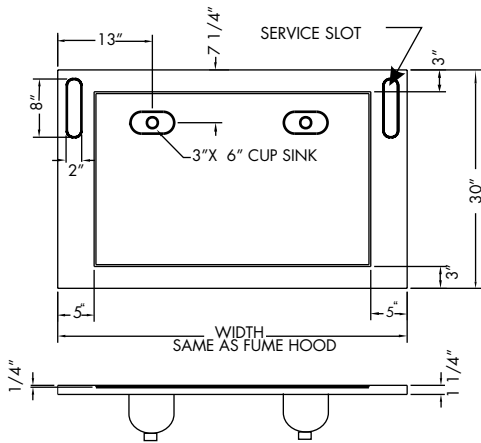
Width	3 Sided Furring Panel		SafeGuard™	SafeGuard™
	Pro Series	RFV2™	32-5/8"	38-5/8"
36"	FPM9336	-	-	-
48"	FPM9348	FPC9348	FPU9348	FPV9348
60"	FPM9360	FPC9360	FPU9360	FPV9360
72"	FPM9372	FPC9372	FPU9372	FPV9372
96"	FPM9396	FPC9396	FPU9396	FPV9396

Width	4 Sided Furring Panel			SafeGuard™	SafeGuard™
	Pro Series	Demonstration	RFV2™	32-5/8"	38-5/8"
36"	FPG9436	-	-	-	-
48"	FPG9448	FPH9448	FPT9448	FPU9448	FPV9448
60"	FPG9460	FPH9460	FPT9460	FPU9460	FPV9460
72"	FPG9472	FPH9472	FPT9472	FPU9472	FPV9472
96"	FPG9496	FPH9496	FPT9496	FPU9496	FPV9496

*Furring panels shown on Pro Series

FUME HOOD WORK SURFACES

Pro Series & NovaGuard™ Work Surfaces

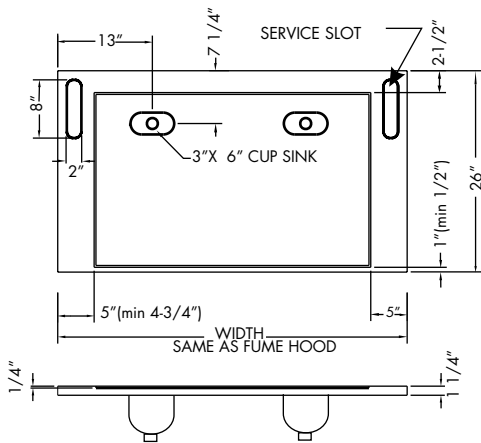


Fume Hood 316-4 Stainless Steel Work Surface				
Width	Plain	Cup Sink Left	Cup Sink Twin	Cup Sink Right
36"	FTP0136	FTL0136	FTT0136	FTR0136
48"	FTP0148	FTL0148	FTT0148	FTR0148
60"	FTP0160	FTL0160	FTT0160	FTR0160
72"	FTP0172	FTL0172	FTT0172	FTR0172
96"	FTP0196	FTL0196	FTT0196	FTR0196
1000mm	FTP010B	FTL010B	FTT010B	FTR010B
1513mm	FTP010C	FTL010C	FTT010C	FTR010C
2000mm	FTP010D	FTL010D	FTT010D	FTR010D

Fume Hood Black Epoxy Work Surface				
Width	Plain	Cup Sink Left	Cup Sink Twin	Cup Sink Right
36"	EFP3036	EFL3036	EFT3036	EFR3036
48"	EFP3048	EFL3048	EFT3048	EFR3048
60"	EFP3060	EFL3060	EFT3060	EFR3060
72"	EFP3072	EFL3072	EFT3072	EFR3072
96"	EFP3096	EFL3096	EFT3096	EFR3096
1000mm	EFP300B	EFL300B	EFT300B	EFR300B
1513mm	EFP300C	EFL300C	EFT300C	EFR300C
2000mm	EFP300D	EFL300D	EFT300D	EFR300D

- Work surfaces suitable for Pro Series and NovaGuard™ hoods only.
- Cup sinks are located for 18" deep fume hood base cabinets and suits a gooseneck only.
- Stainless steel work surfaces are type 316-4, flat with square edges.
- Epoxy work surfaces with 1/8" [3mm] beveled edges are 1-1/4" thick. The cutouts are not beveled.

RFV2™ Work Surfaces



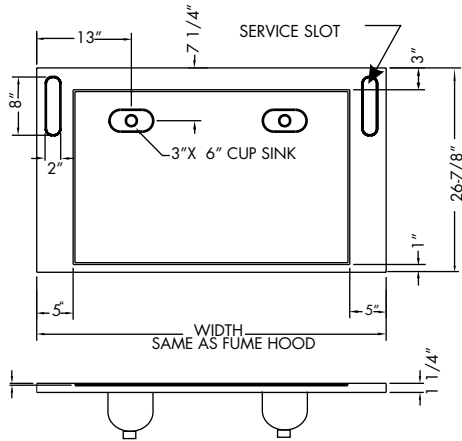
Fume Hood 316-4 Stainless Steel Work Surface				
Width	Plain	Cup Sink Left	Cup Sink Twin	Cup Sink Right
36"	RTP0236	RTL0236	RTT0236	RTR0236
48"	RTP0248	RTL0248	RTT0248	RTR0248
60"	RTP0260	RTL0260	RTT0260	RTR0260
72"	RTP0272	RTL0272	RTT0272	RTR0272
96"	RTP0296	RTL0296	RTT0296	RTR0296
1000mm	RTP020B	RTL020B	RTT020B	RTR020B
1513mm	RTP020C	RTL020C	RTT020C	RTR020C
2000mm	RTP020D	RTL020D	RTT020D	RTR020D

Fume Hood Black Epoxy Work Surface				
Width	Plain	Cup Sink Left	Cup Sink Twin	Cup Sink Right
36"	RFP2636	RFL2636	RFT2636	RFR2636
48"	RFP2648	RFL2648	RFT2648	RFR2648
60"	RFP2660	RFL2660	RFT2660	RFR2660
72"	RFP2672	RFL2672	RFT2672	RFR2672
96"	RFP2696	RFL2696	RFT2696	RFR2696
1000mm	RFP260B	RFL260B	RFT260B	RFR260B
1513mm	RFP260C	RFL260C	RFT260C	RFR260C
2000mm	RFP260D	RFL260D	RFT260D	RFR260D

- Work surfaces suitable for RFV2™ fume hoods only.
- Cup sinks are located for 18" deep fume hood base cabinets and suits a gooseneck only.
- Stainless steel work surfaces are type 316-4, flat with square edges.
- Epoxy work surfaces with 1/8" [3mm] beveled edges are 1-1/4" thick. The cutouts are not beveled.

FUME HOOD WORK SURFACES

SafeGuard™ Work Surfaces For 32-5/8" Deep Hood

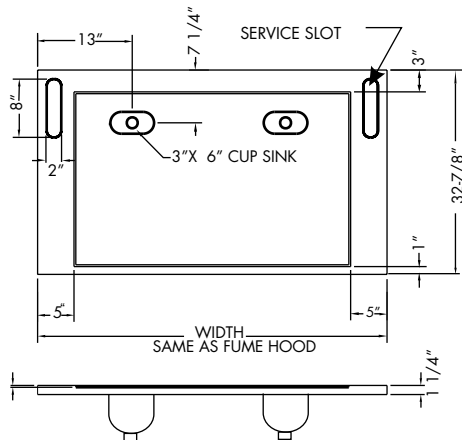


Fume Hood 316-4 Stainless Steel Work Surface 26-7/8"D				
Width	Plain	Cup Sink Left	Cup Sink Twin	Cup Sink Right
36"	STP0336	STL0336	STT0336	STR0336
48"	STP0348	STL0348	STT0348	STR0348
60"	STP0360	STL0360	STT0360	STR0360
72"	STP0372	STL0372	STT0372	STR0372
96"	STP0396	STL0396	STT0396	STR0396
1000mm	STP030B	STL030B	STT030B	STR030B
1513mm	STP030C	STL030C	STT030C	STR030C
2000mm	STP030D	STL030D	STT030D	STR030D

Fume Hood Black Epoxy Work Surface				
Width	Plain	Cup Sink Left	Cup Sink Twin	Cup Sink Right
36"	SFP2736	SFL2736	SFT2736	SFR2736
48"	SFP2748	SFL2748	SFT2748	SFR2748
60"	SFP2760	SFL2760	SFT2760	SFR2760
72"	SFP2772	SFL2772	SFT2772	SFR2772
96"	SFP2796	SFL2796	SFT2796	SFR2796
1000mm	SFP270B	SFL270B	SFT270B	SFR270B
1513mm	SFP270C	SFL270C	SFT270C	SFR270C
2000mm	SFP270D	SFL270D	SFT270D	SFR270D

- Work surfaces suitable for SafeGuard™ fume hoods only.
- Cup sinks are located for 18" deep fume hood base cabinets and suits a gooseneck only.
- Stainless steel work surfaces are type 316-4, flat with square edges.
- Epoxy work surfaces with 1/8" [3mm] beveled edges are 1-1/4" thick. The cutouts are not beveled.

SafeGuard™ Work Surfaces For 38-5/8" Deep Hood



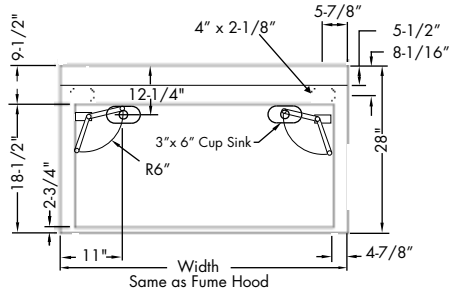
Fume Hood 316-4 Stainless Steel Work Surface				
Width	Plain	Cup Sink Left	Cup Sink Twin	Cup Sink Right
36"	STP0436	STL0436	STT0436	STR0436
48"	STP0448	STL0448	STT0448	STR0448
60"	STP0460	STL0460	STT0460	STR0460
72"	STP0472	STL0472	STT0472	STR0472
96"	STP0496	STL0496	STT0496	STR0496
1000mm	STP040B	STL040B	STT040B	STR040B
1513mm	STP040C	STL040C	STT040C	STR040C
2000mm	STP040D	STL040D	STT040D	STR040D

Fume Hood Black Epoxy Work Surface				
Width	Plain	Cup Sink Left	Cup Sink Twin	Cup Sink Right
36"	SFP3336	SFL3336	SFT3336	SFR3336
48"	SFP3348	SFL3348	SFT3348	SFR3348
60"	SFP3360	SFL3360	SFT3360	SFR3360
72"	SFP3372	SFL3372	SFT3372	SFR3372
96"	SFP3396	SFL3396	SFT3396	SFR3396
1000mm	SFP330B	SFL330B	SFT330B	SFR330B
1513mm	SFP330C	SFL330C	SFT330C	SFR330C
2000mm	SFP330D	SFL330D	SFT330D	SFR330D

- Work surfaces suitable for SafeGuard™ fume hoods only.
- Cup sinks are located for 18" deep fume hood base cabinets and suits a gooseneck only.
- Stainless steel work surfaces are type 316-4, flat with square edges.
- Epoxy work surfaces with 1/8" [3mm] beveled edges are 1-1/4" thick. The cutouts are not beveled.

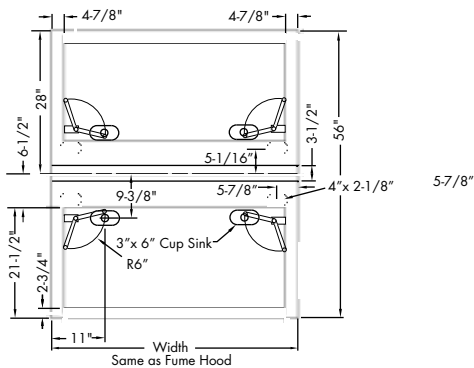
FUME HOOD WORK SURFACES

Observation2™ Single-Faced Work Surfaces



- Two piece epoxy work surface, contact Mott for epoxy top ordering details.
- The epoxy filler strip does need support, the suggested solution is to use Service Legs to provide support in this area. Single sided hoods would typically use SLG1007 (refer to the Steel Miscellaneous Items section).

Observation2™ Double-Faced Work Surfaces



- Three piece counter top, contact Mott for epoxy top ordering details.
- The epoxy filler strip does need support, the suggested solution is to use Service Legs to provide support in this area. Double sided hoods would typically use SLG1014 (refer to the Steel Miscellaneous Items section).

Black Epoxy Cup Sink & Cover



Polyolefin Vent Sets



Fume Hood 316-4 Stainless Steel Work Surface				
Width	Plain	Cup Sink Left	Cup Sink Twin	Cup Sink Right
48"	BTP0148	BTL0148	BTT0148	BTR0148
60"	BTP0160	BTL0160	BTT0160	BTR0160
72"	BTP0172	BTL0172	BTT0172	BTR0172

Fume Hood Black Epoxy Work Surface				
Width	Plain	Cup Sink Left	Cup Sink Twin	Cup Sink Right
48"	BFP0148	BFL0148	BFT0148	BFR0148
60"	BFP0160	BFL0160	BFT0160	BFR0160
72"	BFP0172	BFL0172	BFT0172	BFR0172

- Work surfaces suitable for Single-Faced Observation2™ hoods only.
- Cup sinks are located for 22" deep sink cabinets and suits a gooseneck only.
- Stainless steel work surfaces are type 316-4, flat with square edges.
- Epoxy work surfaces with 1/8" [3mm] beveled edges are 1-1/4" thick. The cutouts are not beveled.

Fume Hood 316-4 Stainless Steel Work Surface				
Width	Plain	Cup Sink Left	Cup Sink Twin	Cup Sink Right
48"	BTP0248	BTL0248	BTT0248	BTR0248
60"	BTP0260	BTL0260	BTT0260	BTR0260
72"	BTP0272	BTL0272	BTT0272	BTR0272

Fume Hood Black Epoxy Work Surface				
Width	Plain	Cup Sink Left	Cup Sink Twin	Cup Sink Right
48"	BFP0248	BFL0248	BFT0248	BFR0248
60"	BFP0260	BFL0260	BFT0260	BFR0260
72"	BFP0272	BFL0272	BFT0272	BFR0272

- Work surfaces suitable for Double-Faced Observation2™ hoods only.
- Cup sinks are located for 18" deep fume hood base cabinets and suits a gooseneck only. Cup sink location (left or right) is determined when facing the front of the sash.
- Stainless steel work surfaces are type 316-4, flat with square edges.
- Epoxy work surfaces with 1/8" [3mm] beveled edges are 1-1/4" thick. The cutouts are not beveled.

Black Epoxy Cup Sink 3" x 6" Oval
EFC1000

Black Epoxy Cup Sink Cover
EFC0000

- Black epoxy cup sink cover fits over cup sink.

Item	Item Number
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Polyolefin Vent Set for acid cabinet with FRP liner	PVSA
Polyolefin Vent Set for acid cabinet with molded liner	PVSS

- For venting acid storage cabinets (not recommended for flammable storage cabinets).
- Flexible corrugated vent tube is 8 feet long, fitting to attach to rear of cabinet is provided.

All dimensions and sizes shown are nominal. Specifications and details are based on product information at the time of printing and may change at any time without notice. Mott Manufacturing reserves the right to change dimensions, specifications and manufacturing details at any time without notice.

FUME HOOD OPTIONS

Option Code	Description
46	Tempered glass
53	Entire exterior satin coat construction (Sigma Barrier™)*
A1	Alarm - see data sheet
A2	Alarm cutout only
A3	Magnahelic gage
A4	Minihelic gage
A5	VAV control installed (customer supplied)*
A6	VAV control duplex receptacle on top of fume hood*
A7	Customer supplied alarm, Mott installed*
B2	Baffle - remote control adjustable top, fixed sides and center
E3	Explosion proof wiring
E5	Motor/blower switch
E7	T5 fluorescent light*
G1	Finished back panel on fume hood
G2	Fire extinguisher
G3	Partially crated (for full crating please contact Mott Manufacturing)
G4	Fume hood exterior type 304 stainless steel
G5	Fume hood exterior type 316 stainless steel
KD	Knock-down with assembly instructions and photos
LA	Bilingual label (English/French)*
LLH	Fume hood LED lighting fixture
LV	Low volume options include laminated safety glass shield integral to the sash and keyed lock down mechanism - available on Pro Series bench & SafeGuard™ hoods
P1	Plumbing - mount only
P2	Factory pre-plumbed up
P3	Factory pre-plumbed down
P4	Customer installed plumbing*
S2	Restricted by-pass damper
S3	Sash stop at 18"
S4	Sash stop at specified height
S5	Sash box enclosure
S6	Stainless steel baffle screen (tissue screen)*
S7	No electrical cut outs in air foil*
S9	Keyed sash lock
SC	Self lowering sash mechanism - automatically lowers the sash to the chosen working height (for chain drive hoods)
W1	Window (in one side wall only) available for all hoods except Perchloric, Radioisotope and NovaGuard™ hoods

*Order by comment on notes section of the fume hood data sheet.