DEDICATED TO DISCOVERY. INSPIRED BY INNOVATION.

HAWKINS
LABORATORY FUME HOODS

OPTIONS/ACCESSORIES

| WORK SURFACES

Epoxy

915mm (36") wide fume hood   36-BMEP
1220mm (48") wide fume hood   48-BMEP
1525mm (60") wide fume hood   60-BMEP
1830mm (72") wide fume hood   72-BMEP
2440mm (96") wide fume hood   96-BMEP

Stainless Steel

- Work surfaces are fabricated from Type 316 OR Type 304 stainless steel, 16 gauge, number 4 finish.
- A raised 10mm (3/8") anti-spill edge is on all four sides.
- Sinks should be fabricated from the same material and can be integral welded into the work surface.
- It shall be reinforced on the underside by 16 gauge galvanized-steel channels spaced to prevent twisting, oil-canning or buckling.
- Overall thickness shall be 32mm (1 1/4").
- Material offers excellent heat and solvent resistance and good chemical resistance to most acids.
- Stainless steel is not recommended for use with chemicals such as 18 Hydrochloric Acid, Hydrofluoric Acid, and Sulphuric Acid to 80% solution. Work surface shall be factory installed.
- Work surface is factory installed.

Epoxy

- Work surfaces are moulded in one piece from a modified epoxy resin with a raised 10mm (3/8") anti-spill edge on all four sides and drip groove on the underside of the front edge.
- Front edge is radiused for more efficient airflow
- Overall thickness shall be 32mm (1 1/4").
- Material will offer good stain resistance and excellent chemical heat and moisture resistance.
- Sinks should be fabricated from the same material.
- Colour of top shall be black unless otherwise specified.
- Work surface is factory installed.

Stainless Steel – type 316		**Stainless Steel – type 304**	
915mm (36") wide fume hood	36-BMSS-6	915mm (36") wide fume hood	36-BMSS-4
1220mm (48") wide fume hood	48-BMSS-6	1220mm (48") wide fume hood	48-BMSS-4
1525mm (60") wide fume hood	60-BMSS-6	1525mm (60") wide fume hood	60-BMSS-4
1830mm (72") wide fume hood	72-BMSS-6	1183mm (72") wide fume hood	72-BMSS-4
2440mm (96") wide fume hood	96-BMSS-6	2440mm (96") wide fume hood	96-BMSS-4

General Storage Cabinets, Steel Construction (-S)

- Are non-lined and have a full depth adjustable shelf.
- Cabinets are all-welded steel construction, are rigid and self supporting.
- The minimum metal gauges used in the casework fabrication shall be as follows and as recognized by North American standards:
  - o   11 gauge (3.2mm) for top and front rails
  - o   14 gauge (1.7 mm) for leveling devices
  - o   18 gauge (1.2mm) for all remaining cabinet component including cabinet frame and shelves.
- Leveling devices are installed on each corner and are accessible from the inside of the cabinet
- Cabinets are 535mm (21") deep.
- Also available 460mm deep (18").
- Also available in wood veneer construction **(-W)**.

	880mm (34 3/4") high Stand-up Height	825mm (32 ½") high ADA Height
380mm wide (15")	No. A1-15 -S	No. ADA1-15 -S
460mm wide (18")	No. A1-18 -S	No. ADA1-18 -S
610mm wide (24")	No. A1-24 -S	No. ADA1-24 -S
760mm wide (30")	No. A2-30 -S	No. ADA2-30 -S
915mm wide (36")	No. A2-30 -S	No. ADA2-36 -S
1220mm wide (48")	No. A2-48 -S	No. ADA2-48 -S

	880mm (34 3/4") high Stand-up Height	825mm (32 ½") high ADA Height
460mm wide (18")	No. A25-18 -S	No. ADA25-18 -S
610mm wide (24")	No. A25-24 -S	No. ADA25-24 -S
760mm wide (30")	No. A25-30 -S	No. ADA25-30 -S
915mm wide (36")	No. A25-30 -S	No. ADA25-36 -S
1220mm wide (48")	No. A25-48 -S	No. ADA25-48 -S

Acid/Corrosive Storage Cabinets, Steel Construction (-S)

- Are designed and constructed for the storage of acids and corrosive chemicals, not flammable or combustible chemicals. Door fronts to be labeled "ACIDS" or "CORROSIVE".
- Cabinet exteriors are all-welded steel construction, are rigid and self-supporting.
- Interior lining is all welded one piece construction fabricated of 6mm (1/4") thick from white low-density polyethylene. Interior of doors are lined with the same material and have upper and lower vent slots.
- Shelf is reinforced, full depth, two position, high density polyethylene.
- The floor of the cabinet has a 25mm (1") anti-spill front edge.
- Cabinet will be provided with 40mm (1 1/2") PVC fittings and tubing for venting the cabinet into the fume hood.
- Leveling devices are installed on each corner and are accessible from the inside of the cabinet.
- Cabinets are 535mm (21") deep.
- Also available 460mm deep (18").
- Also available in wood veneer construction **(-W)**.

| BASIC CABINETS

Solvent/Flammable Storage Cabinets, Steel Construction (-S)

- Designed for the storage flammable and combustible liquids and not for the storage of acids and corrosives.
- Door fronts to be labeled "FLAMMABLE- KEEP FIRE AWAY"
- Cabinets meet O.S.H.A. Standard 1910-106 (d)(3) and comply with NFPA 30 Flammable and Combustible Liquids. They are UL 1275/ UL1275C UL labeled.
- Cabinets is fabricated from 1.2mm (18 gauge) steel with a baked electrostatic powder coating. The top, sides, floor and doors are double wall construction with fire-proof insulation between providing a 40mm (1 1/2") insulating air space all around.
- The floor is recessed 50mm (2") to contain spills.
- Doors are manual-closing with lever handle a three point locking devise. Self closing doors are optional
- Upper and lower air vents with spark arrestors and removable threaded covers are installed on the back of the cabinets.
- Cabinet is painted Caution Yellow.
- Cabinets are 535mm (21") deep.   • Also available 460mm deep (18").
- Also available in wood veneer construction. (-W)

NOTE: It is not recommended to vent the cabinets into fume hood or fume hood exhaust ducting.

	880mm (34 3/4") high	825mm (32 ½") high
	Stand-up Height	ADA Height
460mm wide (18")	No. A23-18 -S	No. ADA23-18 -S
610mm wide (24")	No. A23-24 -S	No. ADA23-24 -S
760mm wide (30")	No. A23-30 -S	No. ADA23-30 -S
915mm wide (36")	No. A23-30 -S	No. ADA23-36 -S
1220mm wide (48")	No. A23-48 -S	No. ADA23-48 -S

Pump Cabinets, Steel Construction (-S)

- Construction is to UL962A/CSA22.2 #203 certified.
- Leveling devices are installed on each corner and are accessible from the inside of the cabinet.
- Inside of cabinet (back, sides and top) are lined with CB-300 sound deadening insulation. To protect the sound deadening insulation, a perforated painted steel lining is welded to the cabinet doors, back, sides and top.
- A 100lb capacity full extension pull out pan on the bottom of the cabinet is standard.
- One duplex electrical outlet 120V/15–20 A is located on the inside back of the cabinet, one 15A pump switch with a 4.90A thermal overload is located on the exterior top panel of the cabinet.
- A 2" (51mm) diameter vent port at the top left corner of the cabinet back and a 1 1/2" (38mm) pipe on the back right side of the cabinet top for end-user supplied piping is standard.
- Cabinets are 535mm (21") deep.
- Optional "CPU" for additional venting available
- Also available 460mm deep (18").
- Also available in wood veneer construction (-W).
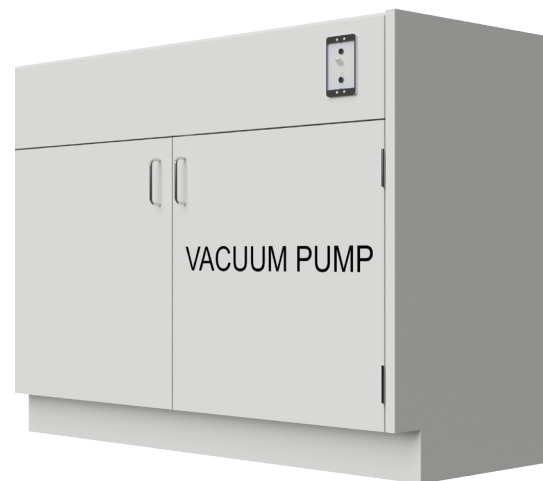
	880mm (34 3/4") high	825mm (32 ½") high
	Stand-up Height	ADA Height
380mm wide (15")	No. A41-15 -S	No. ADA41-15 -S
460mm wide (18")	No. A41-18 -S	No. ADA41-18 -S
610mm wide (24")	No. A41-24 -S	No. ADA41-24 -S
760mm wide (30")	No. A41-30 -S	No. ADA41-30 -S
915mm wide (36")	No. A41-30 -S	No. ADA41-36 -S
1220mm wide (48")	No. A41-48 -S	No. ADA41-48 -S

Factory installed service fixtures and fittings:

- Mechanical service fixtures and fittings are front loading type, factory installed and piped from valve to outlet in the fume hood.
- Rod type valve assembles are also available
- Goosenecks and nozzles are colour coded to their handles in accordance with SEFA7 - 2018.
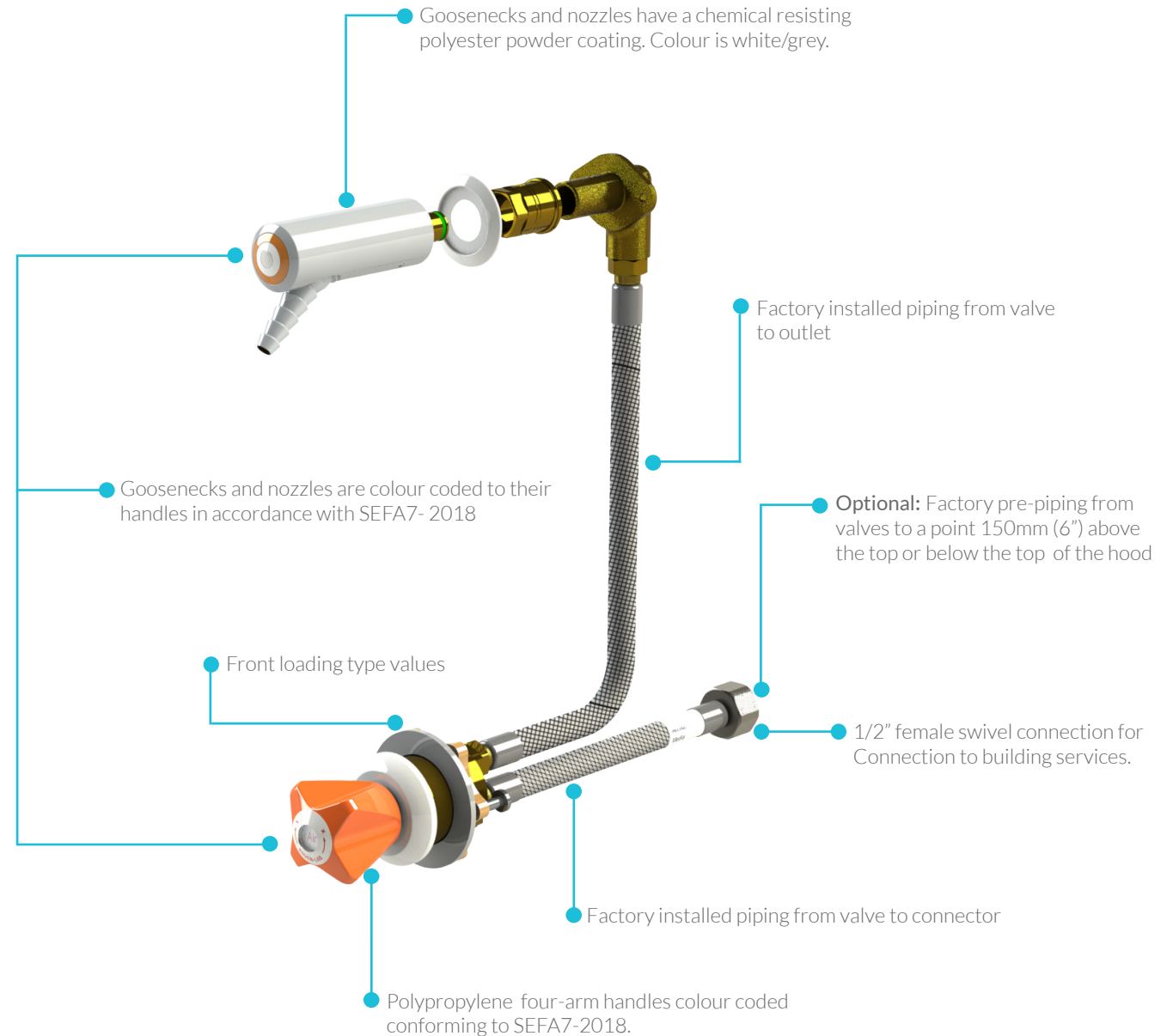- Fittings are CSA and CGA approved

Valves

- Valve Bodies: One piece construction, cast or forged brass with a minimum copper content of 57%.
- Cold Water: Ceramic compression ball valve with double sealed Uniflex connection, 1X180 degree turn open to close.
- Technical Gases (except vacuum): Brass needle valve, 3X360 degree turn open to close. Double sealed Uniflex connection.
- Vacuum: Brass needle valves, 1/4 turn open to close function. Double sealed Uniflex connection.
- Burning gases: Brass needle valve, 1/4 turn open to close with Push-In POP-UP safety handle for visual safety.

Fixtures exposed to hood interior:

- One piece construction, cast or forged brass with a minimum copper content of 57%.
- Finish is a chemical resisting polyester powder coating. Colour is white/ grey.

Handles:

- Remote control handles: Polypropylene construction four-arm handle colour coded conforming to SEFA7-2018.

- Accessible Use (ADA): One hand operated remote control handles with brass ball valve, 1/4 turn open to close. Maximum pressure to active shall not exceed 5 pounds (22.2N).

Goosenecks and nozzles have a chemical resisting polyester powder coating. Colour is white/grey.

Factory installed piping from valve to outlet

Goosenecks and nozzles are colour coded to their handles in accordance with SEFA7- 2018

Optional: Factory pre-piping from valves to a point 150mm (6") above the top or below the top of the hood

Front loading type values

1/2" female swivel connection for Connection to building services.

Factory installed piping from valve to connector

Polypropylene four-arm handles colour coded conforming to SEFA7-2018.

| MECHANICAL SERVICE FIXTURES
   WATER

600-FL Cold water gooseneck
602-FL Hot water gooseneck

601-FL Cold water gooseneck
w/ vacuum breaker
603-FL Hot water gooseneck
w/ vacuum breaker

606-FL Cold water nozzle
607-FL Hot water nozzle
608-FL Cold/hot water mixing nozzle
609-FL Steam nozzle

604-FL Cold/hot water
mixing gooseneck

605-FL Cold/hot water mixing
gooseneck w/ vacuum breaker

610-FL Atmospheric
vacuum breaker

620-FL Burning gas

621-FL Air

622-FL Vacuum

623-FL Nitrogen

624-FL Carbon Dioxide
625-FL Hydrogen
626-FL Argon
627-FL Oxygen
628-FL Propane
629-FL Helium
630-RT Low Vacuum
635-FL Special gas (specify)
636-FL Special gas (specify)

Factory installed service fixtures and fittings:

• Mechanical service fixtures and fittings are front loading type, factory installed and piped from valve to outlet in the fume hood.

• Piping for low temperature water, 0°c to 65°c (Polyethylene and Polypropylene valves)

• Piping for high temperature water, 0°c to 90°c (Stainless steel valves and hoses)

• Goosenecks and nozzles are colour coded to their handles in accordance with SEFA7 - 2018.

• Fittings are CSA approved

Valves

• Valve Bodies: One piece construction, cast or forged brass with a minimum copper content of 57%.

• Ceramic compression ball valve?? with double sealed Uniflex connection, 1,5X360 degree turn open to close.

Material in contact with water:

• Polypropylene for low temperature water, 0°c to 65°c

• Type 316 stainless steel for high temperature, 0°c to 90°c
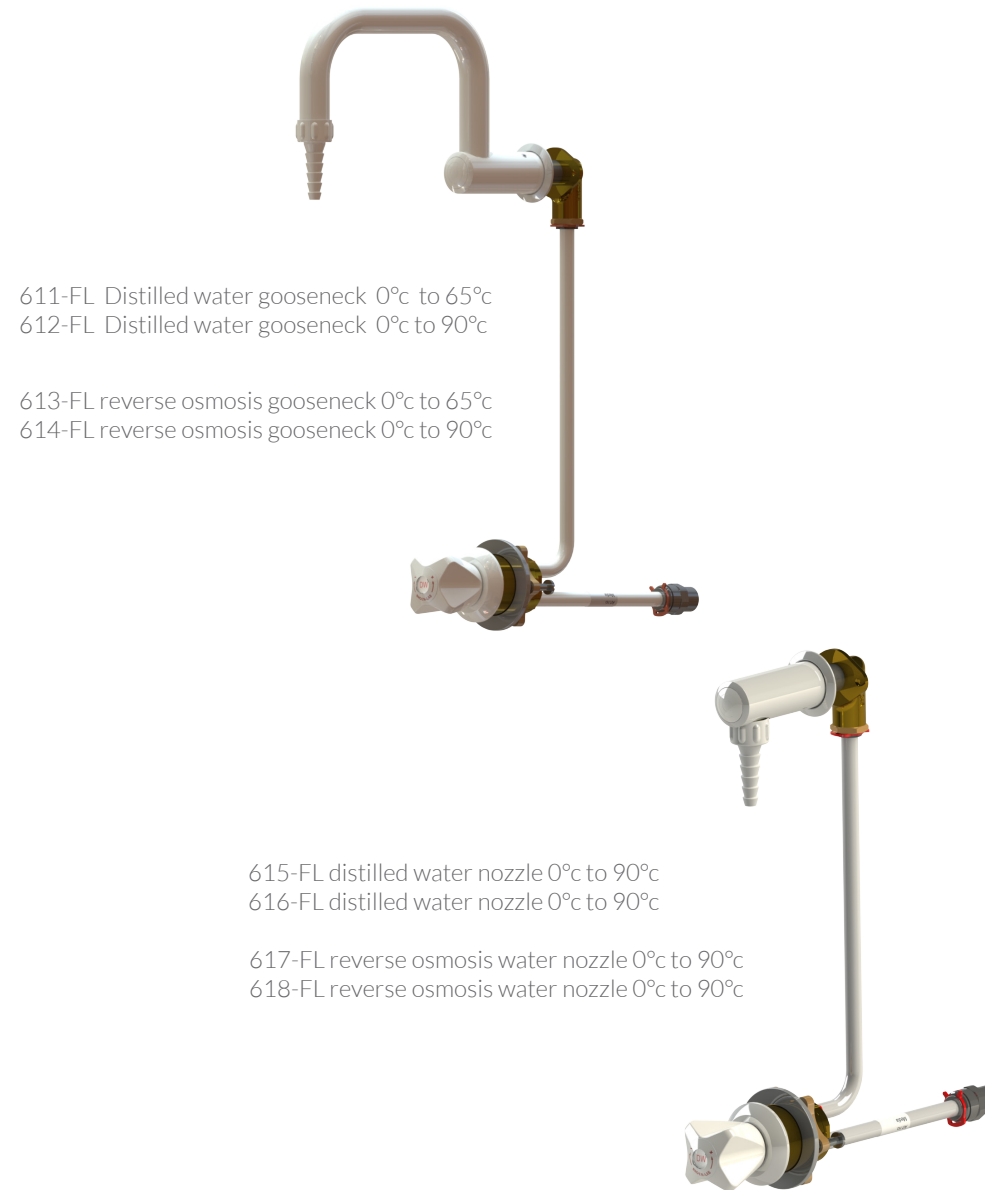
Fixtures exposed to hood interior:

• One piece construction, cast or forged brass with a minimum copper content of 57%.

• Nozzles:

o Polypropylene for low temperature water, 0°c to 65°c

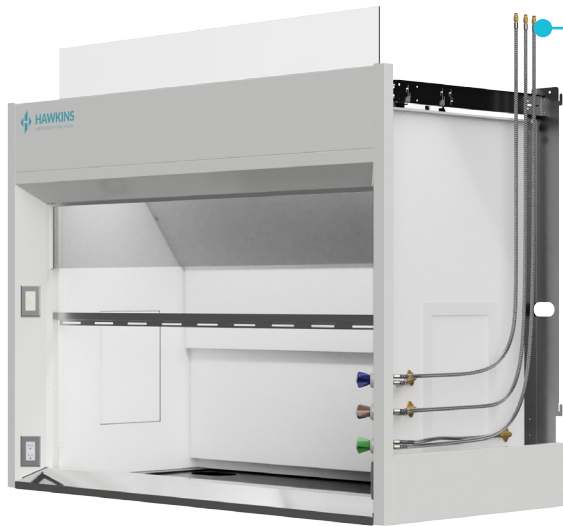o Type 316 stainless steel for high temperature, 0°c to 90°c

Finish:

• Chemical resisting polyester powder coating. Colour is white/ grey.

Handles:

• Remote control handles: Polypropylene construction four-arm handle colour coded conforming to SEFA7-2018.

• Accessible Use (ADA): One hand operated remote control handles. 1/4 turn open to close. Maximum pressure to active shall not exceed 5 pounds (22.2N). .

611-FL Distilled water gooseneck 0°c to 65°c
612-FL Distilled water gooseneck 0°c to 90°c

613-FL reverse osmosis gooseneck 0°c to 65°c
614-FL reverse osmosis gooseneck 0°c to 90°c

615-FL distilled water nozzle 0°c to 90°c
616-FL distilled water nozzle 0°c to 90°c

617-FL reverse osmosis water nozzle 0°c to 90°c
618-FL reverse osmosis water nozzle 0°c to 90°c

Pre-piping 150 (6")
Above Hood

Factory Pre-Piping - Optional

- Pre-piping from valves to a point 150mm (6") above OR below the hood superstructure complete with 1/2" female nut connector for service connection.

Material:

- Water: SPX (Soft PEX-A) hose with stainless steel braiding. Outside diameter is 0.47" with a minimum inner bending radius of 1 37/64".
- Technical gases: SPX (Soft PEX-A) with (describe) stainless steel braiding . Outside diameter is 0.47" with a minimum inner bending radius of 1 37/64".
- Burning Gases: Corrugated type 316 Stainless steel hose. Outside diameter is 0.47" with a minimum inner bending radius of 0.33".

Pressure Ratings:

- Fittings are to be constructed to operate with the following maximum working pressure without leak or failure.

  Water Fittings: 145 PSI
  Non-Burning Gas: 145 PSI - 231 PSI
  Burning Gases: 100 PSI
  Special Water Fittings: 145 PSI
  Oxygen Fittings: 145 PSI - 232 PSI

Pre-piping 150 (6")
Below Hood

Acid Storage Cabinet Vent Kit

- Designed to vent the acid storage base cabinet into the rear upper baffle area of the fumehood without perforating the work surface.
- Assembly consists of 40mm (1 ½") diameter PVC tubing and PVC fittings.
- Tubing is connected to the back of the cabinet and the rear baffle area of the hood with PVC elbows and flanges.
- PVC tubing runs between the inside and outside wall of the fume hood superstructure.

EPOXY SINKS AND CUP SINKS
- Moulded seamless epoxy construction. Standard colour is black.
  Grey and slate grey are optional colours.
- Sinks are Drop-in type with moulded rim. Can be flush mounted in the counter top or with raised rim 1/4" above the above countertop surface.
- Waste fitting is polyethylene with 1 1/2" diameter threaded tail piece and strainer. Overflow tube is optional.

White, grey and slate grey are available to order with no up-charge.

Model	Internal Length	Internal Width	Internal Depth	External Height	Flange Width	Internal Thickness
	A	B	C	D	E	F
#3	12	8	8	9	0.8	0.3
#5A**	14	10	6	7	0.8	0.3
#10**	16	8	7	8	0.8	0.3
#15**	16	12	8	9	0.8	0.3
#25A	18	15	5	6	1.1	0.3
#25	18	15	8	9	1.1	0.3
#30**	18	15	11	12	0.8	0.3
#33**	21	17	10	11	0.8	0.3
#50	24	16	8	9	0.8	0.3
#55A	25	15	5	6	0.8	0.3
#55**	25	15	10	11	0.8	0.3
#59	28	15	12	13	0.8	0.3
#70	24	16	16	17	0.8	0.3

Available in black.

Model	Internal Length	Internal Width	Internal Depth	External Height	Flange Width	
S497	9	3	5.8	6	0.63	Deck Mount
S499	6	3	4.5	5	0.63	Deck Mount
S500	5.4" Diameter	5.4" Diameter	3.7	4	0.63	Deck Mount
S502	6	3	3.7	4	0.63	Wall Mount
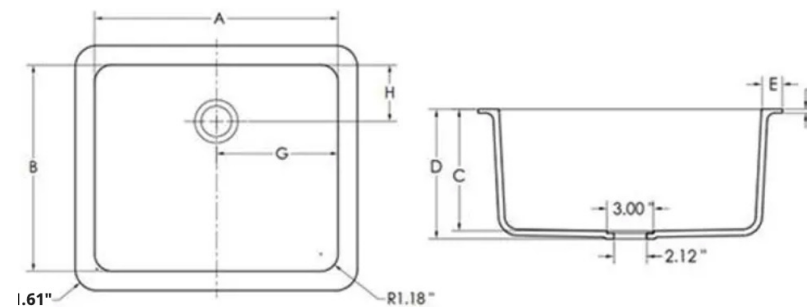
- Stamped seamless construction, type 316, 20 gauge. Number 4 satin finish on exposed surfaces.
- All corners are radiused for ease of cleaning.
- Self rimming with integral rim. Can be integrally welded into stainless steel work surface.
- Undercoated for sound deadening and reduced condensation
- Waste fitting is a 3 1/2" crumb cup stainer with stopper and 1 1/2" diameter stainless steel tailpiece
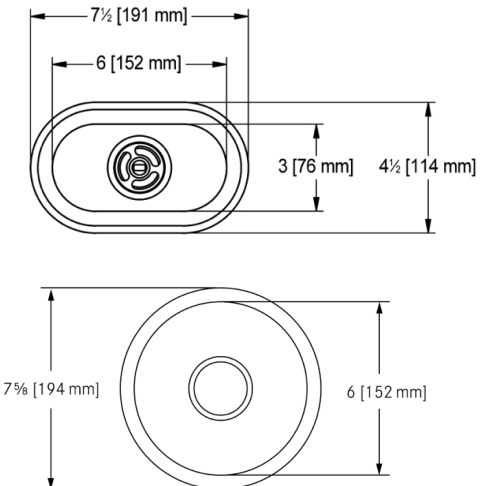

INSIDE DIMENSION

| NO.SS30 | 6" x 3" Oval |
| NO.SS30 | 6" Diameter |

7½ [191 mm]

6 [152 mm]

3 [76 mm]   4½ [114 mm]

7⅝ [194 mm]   6 [152 mm]

INSIDE DIMENSION

NO.SS1	14½" x 9½" x 7"
NO.SS3	16" x 14" x 10"
NO.SS4	18" x 16" x 7"
NO.SS5	18" x 16" x 10"

- Stamped seamless construction, type 316, 20 gauge. Number 4 satin finish on exposed surfaces.
- All corners are radiused for ease of cleaning.
- Self rimming with integral rim. Can be integrally welded into stainless steel work surface.
- Undercoated for sound deadening and reduced condensation Stainer is built in with 1 1/2" diameter stainless steel tailpiece

DILUTION TANK/TRAP - 2 GALLONS

- Design allows for easy fitting in tight spaces.
- Standard connections are 1-1/2" female threaded inlet and 1-1/2" male threaded outlet.
- A 3" cleanout is mounted on the tank top to facilitate inspection and maintenance.
- Single or dual inlets can be provided. The standard tank configuration is shown.
- May be used as sedimentation traps.

3" BLK CAP
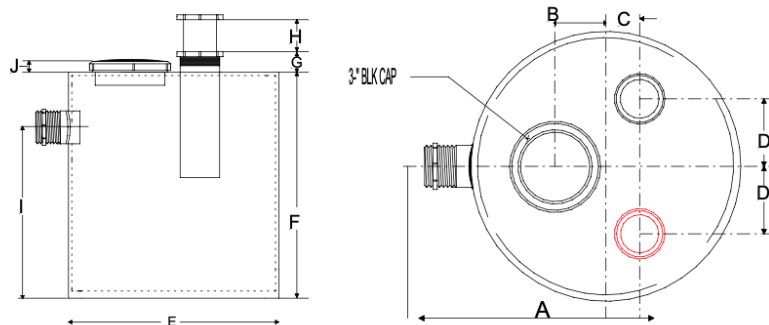
WHEN TANK IS ORDERED WITH 1 INLET

THE STD LOCATION IS MARKED IN RED.

COLOR	PART #	A	B	C	D	E	F	G	H	I	J	INLET	# OF INLET	OUT-LET
BLACK	W59155-200	7-5/16"	2-1/2"	1-3/16"	2-1/16"	9"	10-5/32"	1-15/16"	0-10	6-13/16"	1-5/8"	1-1/2"	2	2"
BLACK	W59155-201	7-5/16"	2-1/2"	1-3/16"	2-1/16"	9"	10-5/32"	1-15/16"	0-10	6-13/16"	1-5/8"	1-1/2"	1	2"
BLACK	W5915-202	7-5/16"	2-1/2"	1-3/16"	2-1/16"	9"	10-5/32"	1-15/16"	0-10	6-13/16"	1-5/8"	2"	1	2"
BLACK	W59155-203	7-5/16"	2-1/2"	1-3/16"	2-1/16"	9"	10-5/32"	1-15/16"	0-10	6-13/16"	1-5/8"	2"	2	2"

ALSO AVAILABLE IN TRANSLUCENT WHITE W59156

BOOKSHELF/BOILER TANK

Confined space tanks all dimensions are in inches

12" OR 18"

12" OR 14"

6"
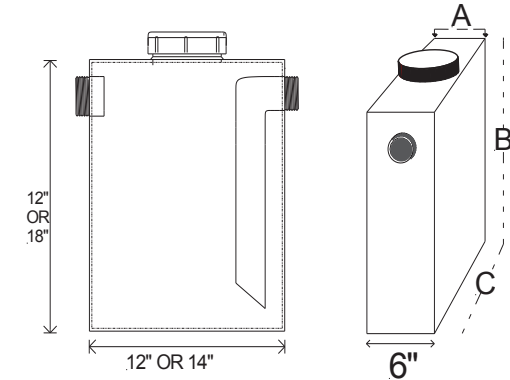
ONE PEICE ROTATIONALLY MOLDED
1 1/2" OR 2" MALE / FEMALE
OR PLAIN END INLET AND OUTLET
3" TOP CLEANOUT CAP

A	B	C	D= GALLONS	PART NUMBER
6"	12"	12"	3	W121206-001
6"	18"	14"	5	W181406-001

1-1/2" NPT
1-1/2"
1." Off the Bottom
5-3/4"
8."
2"
1-1/2" NPT

5-1/2" 5-1/2"
4" Clean Out Cap
6-1/2"
5-1/2" 5-1/2"
11."
8." 3."

Airflow Monitor
AFA500
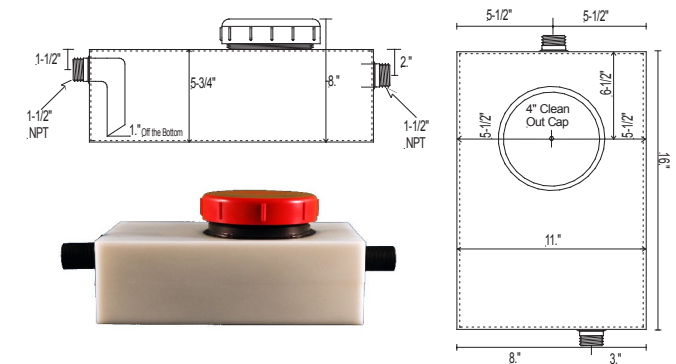
AFA 500

Model AFA500 factory installed low airflow monitor and alarm system.

- Built in sidewall airflow sensor for measuring and monitoring face velocity.
- Audible alarm with mute button.
- Visual alarm with Green LED = Safe and Red LED light = Alarm.
- Audible alarm can be silenced but Red LED will stay active until alarm condition is corrected.
- Single Alarm Point Capture pushbutton calibration.
- Relay input for Night Setback to mute audible alarm.
- Alarm is low voltage and is supplied with a transformer.

AFA 1000

Model AFA1000 factory installed low airflow monitor and alarm system

- Built in sidewall airflow sensor for measuring and monitoring face velocity
- Back-lit LCD display.
- Digital face velocity display in fpm or m/s.
- Visual and audible alarms.
- Indicator display: Green LED = Safe, Amber LED = Caution, Red LED = Alarm
- Alarm Indiction: Red graphic with audible alarm.
- Audible alarm can be silenced but Red graphic will stay active until alarm condition is corrected.
- Two point alarm capture push button calibration.
- BACnet and Modbus on board available with optional comms adaptor.
- Alarm is low voltage and is supplied with a transformer.

AFA 4000

Model AFA4000/1 factory installed low airflow monitor and alarm system

- Built in sidewall airflow sensor for measuring and monitoring face velocity
- Full-colour 3.5" LCD display.
- Digital face velocity display in fpm or m/s.
- Visual and audible alarms.
- Graphic display: Green LED = Safe, Amber LED = Caution, Red LED = Alarm
- Alarm Indiction: Red graphic with audible alarm.
- Audible alarm can be silenced but Red graphic will stay active until alarm condition is corrected.

- Two point alarm capture pushbutton calibration.
- BACnet and Modbus on board available with optional comms adaptor.
- Alarm is low voltage and is supplied with a transformer.
- Compatible with TEL Variable Air Volume Auto Sash Return System

| DISTILLATION RACKING

Assemblies
- Nominal 300mm X 300mm (12" X 12") grid pattern
- Adjustable by users as apparatus requirement change
- Available in three materials to better suit user needs
- Available for bench mount and floor mount hoods
- Custom sizes to customer requirements

Stainless Steel, type 316, satin finish (S)
- ½" diameter stainless steel rounded edge type rods
- Open end style stainless steel clamps with set screw
- Stainless steel flanges with set screw

Aluminum, satin finish (A)
- ½" diameter aluminum rounded edge type rods
- Open end style aluminum clamps with set screw
- Aluminum flanges with set screw

Plastic (P)
- ½" diameter white fiberglass rounded edge type rods
- Open end style black nylon clamps with set screw
- Black nylon flanges with set screw

BENCH MOUNT
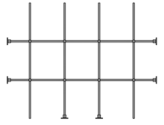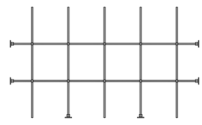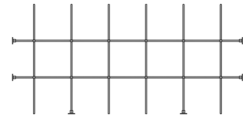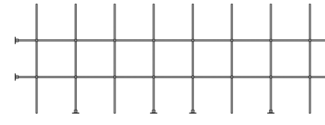
BMDR-48(A)	BMDR-60(A)	BMDR-72(A)	BMDR-96(A)
BMDR-48(S)	BMDR-60(S)	BMDR-72(S)	BMDR-96(S)
BM DR-48(P)	BMDR-60(P)	BMDR-72(P)	BMDR-96(P)

FLOOR MOUNT
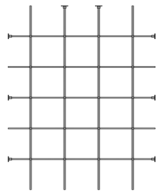
| FMDR-48(A) | FMDR-60(A) | FMDR-72(A) | FMDR-96(A) |
| FMDR-48(S) | FMDR-60(S) | FMDR-72(S) | FMDR-96(S) |
| FMDR-48(P) | FMDR-60(P) | FMDR-72(P) | FMDR-96(P) |
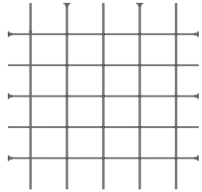
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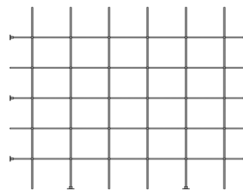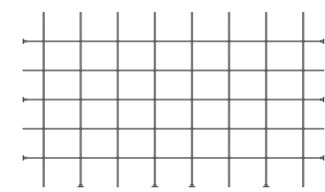
Ceiling Closure Panels

- Ceiling Closure Panels are intended enclose the top of the fume to the underside of ceiling in doing so hiding the exhaust ducting from view.
- Fabricated from the same material and gauges as the fume hood exterior.
- Panels are set-back design to allow for proper by-pass air operation and to allow for the removal of the fume hood front and side panels.
- Maximum height is 610mm (24").
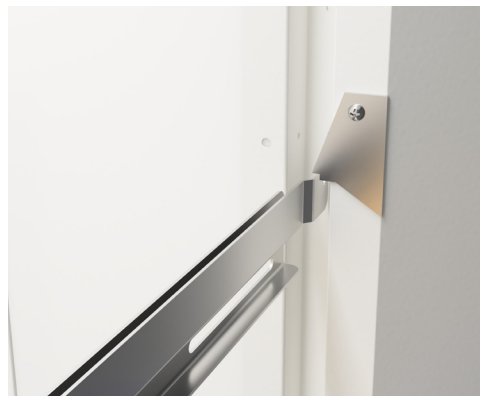- Colour to match fume hood exterior.
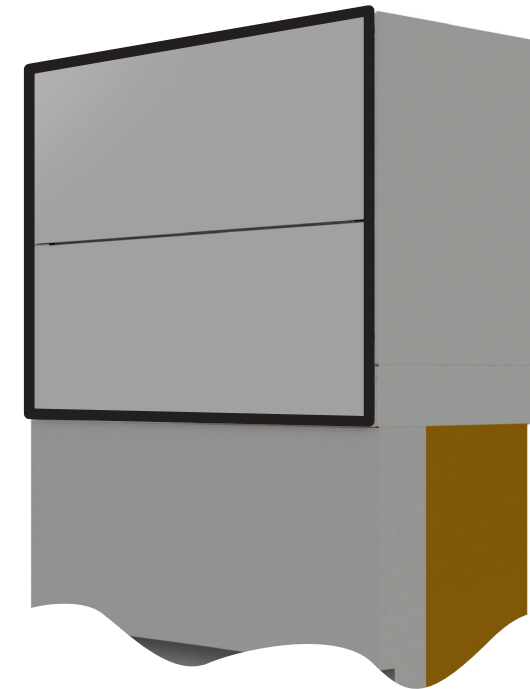
Finished Back Panels

- Finished Back Panels are intended to enclose the back of fume hood when the hood is sitting on an island or peninsula cabinet assembly.
- Panels are two piece construction and are removable.
- Colour to match fume hood exterior.

Sash Stops

- Sash stops can be provided at the specified Sash Operating Height.
- They have a manual override when lowering the sash below the Sash Operating Height and an automatic reset when the sash is raised above the Sash Operating Height

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HAWKINS
LABORATORY FUME HOODS