



JUSTRITE®

New Products *Lab and Industrial Safety Products*

TRUSTED SAFETY SINCE 1906

VOL.1
SUPPLEMENT
CATALOG

2016-17
EDITION



NEW

WORKPLACE SAFETY SOLUTIONS



SAFETY EYE/FACE WASH AND SHOWERS

Preview pages 4-7

Respond to accidents with reliable, effective emergency personal treatment products—over 100 models to suit a variety of applications.

HUGHES



CORROSIVE CHEMICAL STORAGE CABINETS

Page 8

Store strong acids or bases in completely metal-free polyethylene cabinets—never worry about corrosion again!



LABORATORY CONTAINERS

Pages 9-13

Over 150 models including VaporTrap™ Solvent Waste Systems with filters to protect workers from inhaling dangerous fumes and space-saving, rectangular carboys with versatile caps that offer a wide range of tubing port configurations.



AEROSOLV® 360 AEROSOL CAN DISPOSAL SYSTEM

Pages 14-15

Meet EPA requirements and safely recycle aerosol cans while reducing disposal costs—turns aerosol cans into recyclable scrap steel and captures harmful VOCs in a high-efficiency activated carbon filter.

THE NEED FOR EMERGENCY SAFETY EYEWASHES AND SHOWERS

Emergencies occur daily in workplaces across a wide variety of industries. In some environments where injuries come as a result of chemical spills or splashes, caustic burns, or where airborne/blown particulates are common—the risk for an accident can be even greater. One part of every good safety program is preparedness, the ability to respond to an incident—hence the need for safety eyewashes and showers.

According to NIOSH Centers for Disease Control and Prevention, 2,000 eye injuries occur on the job every day in the U.S. The first ten seconds following exposure is critical to minimize serious injury. Immediate and proper treatment with an eyewash station is the best strategy for a positive outcome.



Handling hazardous materials?



Be prepared in case of an incident

Locate emergency response equipment with 10 seconds (55 feet) of a hazard.



EVEN UNDER THE MOST CAUTIOUS CONDITIONS, ACCIDENTS CAN HAPPEN.

What OSHA Says

OSHA 1910.151(c) Where the eyes or body of any person may be exposed to injurious corrosive materials, suitable facilities for quick drenching or flushing of the eyes and body shall be provided within the work area for immediate emergency use.

Compliance with Recognized Standards

The American National ANSI Z358.1-2014 standard is recognized worldwide and considered to be the most comprehensive. It provides guidance for determining the flow rate, duration of operation, and water temperatures necessary for safe and effective use of any emergency safety shower and eyewash unit. It's important to meet the minimum requirements, which may be mandatory on some sites.

Now available from Justrite®

For over 45 years Hughes emergency response products have ensured safety equipment used in hazardous environments is of high and proven quality—designed to meet and exceed U.S. and European regulatory requirements.

HUGHES

 a Justrite® Group Company

RELIABLE, EFFECTIVE EMERGENCY PERSONAL TREATMENT for chemical splashes and spills, caustic burns, bloodborne pathogens, and airborne/blown particulates



Meets or exceeds ANSI Z358.1



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Hughes Emergency Eye/Face Wash Equipment

Over a dozen easy-to-operate solutions including eyebaths, eye/face washes and eye/face/body wash units—plumbed-in or self-contained

- Open or closed bowl eye/face washes in highly durable ABS plastic, stainless steel, or powder-coated stainless steel. Styles include wall, pedestal, table or bench mounted. Aerated water provides a gentle flow to prevent further eye injury.
- Handheld Optiflex models with unique lock-on actuating button provides continuous water flow to treat eye, face, and body—long hose length easily reaches affected areas, ideal for treating disabled personnel.
- Portable, self-contained pressurized equipment for use on trucks, or in remote areas, where a water source is not available. Stainless steel cylinder withstands corrosion under isolated conditions.
- A variety of models available for indoor or outdoor use.



Hughes Indoor Emergency Safety Showers

Over 30 unheated stainless or galvanized steel models ranging from simple wall or ceiling mounted units, to free standing models, to combination units for onsite treatment of eye/face or full body exposure to hazardous materials

- Drench showers or multi-functional combination showers with high performance, 316L stainless steel shower ball valves and low operating torque for easy-on, reliable operation when emergencies occur.
- High flow rate laboratory models with powder coated stainless steel pipework for resistance to corrosive and flammable materials—cleans easily.
- Cubicle showers for areas with limited space or where the shower needs to be enclosed. Includes drain sump to reduce risk of surplus contaminated water outside the cubicle. Upgraded model features addition of a sump pump and strip screens for reduction of overspray outside the cubicle.
- Combination showers with integral floor grating and rails for extra support to the casualty during an emergency.
- Decontamination shower incorporating a detergent inducing venturi feeding an overhead shower rose and a brush on a flexible hose—includes four shower nozzles for secondary wash down.



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Hughes Outdoor Emergency Safety Showers

Over 30 stainless or galvanized steel models to accommodate outdoor conditions in hot or cold climates

- Self-draining showers for hot climates with unique design that allows standing water to drain away from the standpipe, thereby reducing overheating by solar radiation to ensure tepid water in the event of an emergency. The power of the sun can heat standing water within pipes to as high as 112° F (50° C)—using a self-draining shower eliminates the possibility of shock and scalding to a casualty.
- Freeze-protected showers for cold climates—trace tape heating covered with polyurethane foam provides maximum insulation and polyethylene outer jacket offers corrosion resistance.

Hughes Emergency Tank Showers

Wide range of nearly a dozen models—effective in environments where a tepid, constant supply of water cannot be guaranteed, and in ambient temperatures where it is impractical to use a standard safety shower

- Features fiberglass outer casing with single-piece polyethylene tank for leak-free, long life. Includes immersion heater fitted with dual temperature thermostat to prevent overheating and ensure tepid water, temperature gauge, and thermal insulation to assist in maintaining tank water temperature.
- Polar tank models designed for severely cold climates incorporate a double-skinned fiberglass insulated cubicle and double swing push-open doors for protection from the elements.

Hughes Temperature Controlled Safety Equipment

Intended for outdoor use in low ambient temperatures, these showers remain on standby to deliver warm water for up to 15 minutes to avoid the casualty going into shock

- Built with an integral 79-gallon heated water tank, the temperature controlled safety shower can also be used as a warm water source to feed other emergency shower units in the local vicinity.
- Modular polar cubicle showers with a stainless steel, double skinned, insulated frame for outdoor use in exposed freezing conditions. Optional heated water tanks ensure an uninterrupted supply of tepid water for 15 minutes.
- Stand-alone heated water tanks can also be used with any combination of safety shower/eye wash to guarantee the flushing fluid temperature remains within the guidelines set out in ANSI, EU and other standards.

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Hughes Mobile Emergency Safety Showers

Portable showers for use in environments with no water supply, when a constant supply of water cannot be relied upon, or when existing safety showers are undergoing maintenance

- Self-contained 30-gallon combination shower/eyewash unit incorporates a polypropylene lined cylinder, a stainless steel frame, and large diameter pneumatic tires for easy transport by one person. Includes A-frame with towing hitch for long distances or uneven surfaces.
- Mounted on a heavy-duty galvanized steel frame with four braked wheels, pneumatic tires and a towing hitch, the 528-gallon model gives a constant flow of water for over 15 minutes. Integral immersion heater maintains the water in the tank at a constant temperature.



Hughes Emergency Response Solutions

Quick set-up decontamination showers suitable for use during an accident, disaster or attack using chemical, nuclear, or biological agents

- PORTAflex 16-nozzle decon shower comes in compact, rugged carrying case that doubles as the shower base platform—ready for use in under one minute. Hose legs become rigid under pressure to give 360° coverage.
- PORTAflex CUPOLA inflatable decontamination shelter for use with PORTAflex shower under conditions where contaminated water needs to be contained.
- PORTAdec for decontamination of protective clothing, or as a temporary emergency shower—easily erects and ready for use in five minutes.



Free-standing safe storage for harsh acids, or use undercounter for convenient access.

Polyethylene Cabinet for Corrosive Chemicals

Store acids or bases with confidence in this sturdy, completely metal-free poly cabinet, and never worry about corrosion

- Large interior with adjustable shelf offers high-capacity storage
- Counter-height top doubles as a convenient work surface
- Seamless, leakproof sump captures dangerous corrosive spills

Safely store strong acids such as hydrochloric, sulfuric, or nitric acid; or bases such as sodium, potassium, or calcium hydroxide in this durable, HDPE (high-density polyethylene) cabinet. With no metal parts to corrode, this cabinet holds up to 36, 2.5-liter bottles, and offers chemical resistance against spills or potential damaging vapors when storing acids or bases. The shelf adjusts on 3-inch (76-mm) increments, and has a load capacity of 125-lbs (57-kgs). A removable yet sturdy sump cover, which also serves as a bottom shelf, conceals the fully integrated, leakproof sump with an 8.5-gal (32-L) capacity. Doors accept a padlock (not included) for added security.

Use cabinet for stand-alone storage for access to grooved top work surface. For undercounter use, the recessed toe kick allows the user to stand closer to the counter for improved ergonomics.

Expand capacity without taking up additional floor space by stacking two cabinets. Four pre-formed vent locations at rear provide a guide for an aftermarket vent kit (not included) in the event the application requires a pressurized vapor removal system.



24180



ACID STORAGE CABINET

BASE STORAGE CABINET

CORROSIVE STORAGE CABINET

3 application specific labels provide for segregation of chemicals included on both cabinet styles.

Description	Capacity	Number of Doors	Dimensions H x W x D		Adjustable Shelves	Shelf Load lb/kg	Model No	Ship Wt lb/kg
			Exterior	Interior				
Stand-alone polyethylene cabinet	Thirty-six, 2.5-liter bottles	2 door	35 x 36 x 25 in 889 x 914 x 635 mm	28 x 31.25 x 18 in 711 x 794 x 457 mm	1	125/57	24180	106/48
Replacement polyethylene center shelf for 24180	—	—	33.375 W x 20.375 D in 848 W x 518 D mm	—	—	125/57	24103	10/5

Countertop Polyethylene Cabinet for Corrosives

Point-of-use convenience for small quantities of chemicals

Safely store up to two 4-liter bottles of acids or bases in this durable, compact cabinet. Never worry about corrosion—completely metal-free polyethylene design offers excellent chemical resistance against spills or damaging vapors. Includes two polyethylene spill trays, use one for inside to contain leaks and remove for easy cleaning. Store the extra tray under the cabinet, and remove for use as a handy work top. Hinge door from either side for best worktop utilization—accepts optional padlock for security.



24080



Compact design offers placement on lab counters for access to frequently used chemicals.

Description	Capacity	Number of Doors	Dimensions H x W x D		Adjustable Shelves	Shelf Load lb/kg	Model No	Ship Wt lb/kg
			Exterior	Interior				
Countertop polyethylene cabinet	Two, 4-liter bottles	1 door	19.5 x 14.25 x 16.25 in 495 x 362 x 413 mm	15 x 11.25 x 13.25 in 381 x 286 x 337 mm	—	—	24080	20/9

VaporTrap™ Solvent Waste Systems

Prevent harmful HPLC vapors from being released into the air

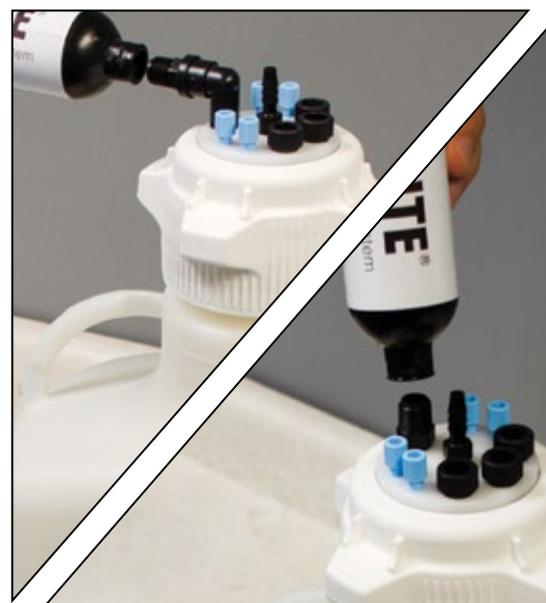
- Carbon filter prevents volatile organic compound vapors from being released into the air
- Two-piece cap design eliminates the need to disconnect tubing from the adapter to install a closed cap
- High-density polyethylene (HDPE) carboy features rectangular ergonomic design, saving valuable bench space

Designed to collect waste from one or more HPLC machines, VaporTrap systems include carbon exhaust filters to trap potentially harmful vapors emitted from solvents, protecting workers from inhaling dangerous fumes. The closed, leakproof system design helps eliminate spills and provides an efficient way for disposing of volatile organic compound waste.

Polypropylene cap with acetal homopolymer adapter offers a wide range of tubing port configurations with and without hose barb ports. Adapter and durable HDPE carboy provide excellent chemical compatibility against aggressive solvents. Unique, convenient features include large top handles for an ergonomic full-hand grip for added safety when moving the carboy, and clear graduation marks with ±5% accuracy.

Each system includes an HDPE carboy, two 83-mm caps (one with ported adapter for waste collection and one closed for safe transport), various ports for waste tubing, one port for a carbon exhaust filter, one carbon exhaust filter, one straight adapter and one 90-degree adapter for filter, tube fittings, gasket, and plugs for unused ports.

Optional filter replacement indicator makes it easy to see when filter is saturated and requires replacement.



Improve air quality in labs by using a carbon exhaust filter which traps solvent vapors—install in horizontal or vertical position.

Need FM-approved containers?

Visit our website and search on laboratory HPLC disposal containers for HPLC safety cans equipped with flame arresters.



Accessories

Description	Model No	Ship wt lb/kg
Replacement carbon exhaust filter, package of two. Filter size: 1.9 OD x 7"	12849	2/1
Carbon exhaust filter indicator, package of two	12952	1/1
Replacement fittings, six 1/8" fittings and six 1/4" plugs, one pack	12851	

Tubing Sizing Guide for Ports

See Tubing Sizing Guide on page 13 to help determine port size needed.



VaporTrap™ Solvent Waste Systems

Carboy Size	Nominal Dimensions* W x L x H	Material Type	Cap Size	1/8" Tubing OD Ports	1/4" Tubing OD Ports	1/4" or 3/8" Tubing ID Hose Barb Ports	Model No	Ship wt lb/kg
1.1 gallon (4 L)	6.1 x 6.1 x 15.75 in (155 x 155 x 400 mm)	HDPE	83 mm	6	—	—	12800	4/2
1.3 gallon (5 L)	5.2 x 8.7 x 18.75 in (132 x 221 x 476 mm)						12801	
2.6 gallon (10 L)	6.4 x 10.75 x 21.9 in (163 x 273 x 556 mm)						12802	
5.3 gallon (20 L)	8.1 x 13.6 x 26.7 in (206 x 345 x 678 mm)						12803	
1.1 gallon (4 L)	6.1 x 6.1 x 15.75 in (155 x 155 x 400 mm)	HDPE	83 mm	6	—	1	12805	4/2
1.3 gallon (5 L)	5.2 x 8.7 x 18.75 in (132 x 221 x 476 mm)						12806	
2.6 gallon (10 L)	6.4 x 10.75 x 21.9 in (163 x 273 x 556 mm)						12807	
5.3 gallon (20 L)	8.1 x 13.6 x 26.7 in (206 x 345 x 678 mm)						12808	
1.1 gallon (4 L)	6.1 x 6.1 x 15.75 in (155 x 155 x 400 mm)	HDPE	83 mm	4	3	—	12810	4/2
1.3 gallon (5 L)	5.2 x 8.7 x 18.75 in (132 x 221 x 476 mm)						12811	
2.6 gallon (10 L)	6.4 x 10.75 x 21.9 in (163 x 273 x 556 mm)						12812	
5.3 gallon (20 L)	8.1 x 13.6 x 26.7 in (206 x 345 x 678 mm)						12813	
1.1 gallon (4 L)	6.1 x 6.1 x 15.75 in (155 x 155 x 400 mm)	HDPE	83 mm	4	4	—	12815	4/2
1.3 gallon (5 L)	5.2 x 8.7 x 18.75 in (132 x 221 x 476 mm)						12816	
2.6 gallon (10 L)	6.4 x 10.75 x 21.9 in (163 x 273 x 556 mm)						12817	
5.3 gallon (20 L)	8.1 x 13.6 x 26.7 in (206 x 345 x 678 mm)						12818	
1.1 gallon (4 L)	6.1 x 6.1 x 15.75 in (155 x 155 x 400 mm)	HDPE	83 mm	4	3	1	12820	4/2
1.3 gallon (5 L)	5.2 x 8.7 x 18.75 in (132 x 221 x 476 mm)						12821	
2.6 gallon (10 L)	6.4 x 10.75 x 21.9 in (163 x 273 x 556 mm)						12822	
5.3 gallon (20 L)	8.1 x 13.6 x 26.7 in (206 x 345 x 678 mm)						12823	

*Note: Height includes filter oriented in horizontal position.



Safely dispose of laboratory waste in these durable, United Nations/Department of Transportation certified carboys—simply remove cap with filter and replace with closed cap for transport.



12846

12841

VaporTrap™ UN/DOT Solvent Waste Systems

UN/DOT solvent waste system ensures safe transport of hazardous liquids

- UN/DOT certified carboy and closed cap for packaging group II, and hazardous chemicals
- Carbon filter prevents volatile organic compound vapors from being released into the air
- Two-piece cap design eliminates the need to disconnect tubing from the adapter to install a closed cap

These UN/DOT solvent waste systems provide liquid waste collection and disposal for single or multiple HPLC machines. Carbon exhaust filter traps potentially harmful vapors emitted from solvents, protecting workers from inhaling dangerous fumes. UN/DOT certified carboy and 70-mm closed cap (UN Rating 3H1/Y1.8/100) are designed for single-use and easy disposal of laboratory waste.

The high-density polyethylene (HDPE) cap with acetal homopolymer adapter offers a wide range of top connection options. Select tubing port configurations to accommodate various tubing sizes and create a closed system preventing leaks or spills. Heavy duty HDPE carboy features a large top handle for an ergonomic full-hand grip, and provides excellent chemical compatibility against aggressive solvents.

Each system includes an HDPE UN/DOT container, two 70-mm caps (one with ported adapter for waste collection and one closed for safe transport), various ports for waste tubing, one carbon exhaust filter, one port for carbon exhaust filter, one straight and one 90-degree filter adapter, tube fittings, EPDM gasket, and plugs for unused ports.



Optional filter indicator makes it easy to see when filter is saturated and needs replacement.

VaporTrap™ UN/DOT Solvent Waste Systems

Carboy Size	Nominal Dimensions* W x L x H	Material Type	Cap Size	1/16" Tubing OD Ports	1/8" Tubing OD Ports	1/4" Tubing OD Ports	1/4" or 3/8" Tubing ID Hose Barb Ports	Model No	Ship wt lb/kg
3.6 gallon (13.5 L)	9.25 x 11.3 x 13.1 in (235 x 287 x 333 mm)	HDPE	70 mm	6	—	—	—	12836	4/2
5.3 gallon (20 L)	9.25 x 11.3 x 17.5 in (235 x 287 x 445 mm)							12837	5/2
3.6 gallon (13.5 L)	9.25 x 11.3 x 13.1 in (235 x 287 x 333 mm)	HDPE	70 mm	—	6	—	—	12838	4/2
5.3 gallon (20 L)	9.25 x 11.3 x 17.5 in (235 x 287 x 445 mm)							12839	5/2
3.6 gallon (13.5 L)	9.25 x 11.3 x 13.1 in (235 x 287 x 333 mm)	HDPE	70 mm	—	6	—	1	12840	4/2
5.3 gallon (20 L)	9.25 x 11.3 x 17.5 in (235 x 287 x 445 mm)							12841	5/2
3.6 gallon (13.5 L)	9.25 x 11.3 x 13.1 in (235 x 287 x 333 mm)	HDPE	70 mm	—	4	3	—	12842	4/2
5.3 gallon (20 L)	9.25 x 11.3 x 17.5 in (235 x 287 x 445 mm)							12843	5/2
3.6 gallon (13.5 L)	9.25 x 11.3 x 13.1 in (235 x 287 x 333 mm)	HDPE	70 mm	—	4	4	—	12844	4/2
5.3 gallon (20 L)	9.25 x 11.3 x 17.5 in (235 x 287 x 445 mm)							12845	5/2
3.6 gallon (13.5 L)	9.25 x 11.3 x 13.1 in (235 x 287 x 333 mm)	HDPE	70 mm	—	4	3	1	12846	4/2
5.3 gallon (20 L)	9.25 x 11.3 x 17.5 in (235 x 287 x 445 mm)							12847	5/2

*Note: Height includes filter oriented in horizontal position.

UN/DOT Approved Carboys

Capacity	Nominal Dimensions W x L x H	Material Type	Cap Size	Model No	Ship wt lb/kg
3.6 gallon (13.5 L)	9.25 x 11 x 11 in (235 x 279 x 279 mm)	High-density polyethylene	70 mm	12950	3/1
5.3 gallon (20 L)	9 x 11 x 15.5 in (229 x 279 x 394 mm)			12951	4/2

Accessories

Description	Model No	Ship wt lb/kg
Replacement carbon exhaust filter, package of two. Filter size: 1.9 OD x 7"	12849	2/1
Carbon exhaust filter indicator, package of two	12952	1/1
Replacement fittings, six 1/8" fittings and six 1/4" plugs, one pack	12851	

High-Density Polyethylene (HDPE) Carboys

Excellent chemical compatibility for storing and dispensing solvents, buffers, reagents and powders

- Interchangeable caps and adapters provide top connection flexibility
- Rectangular ergonomic design saves valuable bench space
- Material, volume, and metric graduation marks imprinted on carboys
- Constructed from USP Class VI, FDA grade materials

The ergonomic design features large handles and base with molded hand-grip, allowing you to easily lift and pour. Made of highly durable Class VI, FDA grade HDPE resin, they offer excellent chemical resistance and are ideal for various solvents, buffers, reagents, powders, and solids. Available in 83-mm and 120-mm sizes, the included polypropylene cap with platinum-cured silicone gasket provides a tight spill-proof seal. The larger 120-mm neck size allows you to reach into the carboy for quick and easy cleaning. Choose an amber carboy for light-sensitive applications.

Carboys are compatible with interchangeable adapters, and on select models, spigot fittings. Leakproof polypropylene spigots include large spigot lever with two flow rates, continuous or manual, and features an internal luer taper that fits a male barb adapter. See page 13 to select from a wide range of adapters with molded or quick connect hose barb configurations for top connection flexibility, and additional spigots and versatile barbs for alternate bottom hosing connection options.



Ergonomic, space-saving rectangular design with molded hand grips at the base and large top handles make it easy to carry, lift, and pour.



Exclusive cap designed with molded 4-point grip assists make it easy to open and tightly close for a leakproof seal.

High-Density Polyethylene Carboys

Capacity	Nominal Dimensions* W x L x H	Cap Size	Model No	Ship wt lb/kg
High-Density Polyethylene Carboys				
0.7 gallon (2.5 L)	5 x 6.7 x 12 in (127 x 170 x 305 mm)	83 mm	12907	2/1
1.3 gallon (5 L)	5.2 x 8.7 x 16.3 in (132 x 221 x 414 mm)		12908	3/1
2.6 gallon (10 L)	6.4 x 10.75 x 19.5 in (163 x 273 x 495 mm)		12909	4/2
5.3 gallon (20 L)	8.1 x 13.6 x 24.2 in (206 x 345 x 615 mm)	120 mm	12910	7/3
	8.1 x 13.6 x 25.2 in (206 x 345 x 640 mm)		12911	7/3
10.6 gallon (40 L)	9.8 x 17.1 x 30.4 in (249 x 434 x 772 mm)	120 mm	12912	11/5
19.8 gallon (75 L)	14.4 x 18.7 x 30 in (366 x 475 x 762 mm)		12913	18/8
High-Density Polyethylene Carboys with Spigots				
1.3 gallon (5 L)	5.2 x 12 x 16.3 in (132 x 305 x 414 mm)	83 mm	12914	3/1
2.6 gallon (10 L)	6.4 x 13 x 19.5 in (163 x 330 x 495 mm)		12915	4/2
5.3 gallon (20 L)	8.1 x 15.25 x 24.2 in (206 x 387 x 615 mm)		120 mm	12916
	8.1 x 15.25 x 25.2 in (206 x 387 x 640 mm)	12917		7/3
10.6 gallon (40 L)	9.8 x 18.75 x 30.4 in (249 x 476 x 772 mm)	12918	11/5	
High-Density Polyethylene Carboys, Amber				
0.7 gallon (2.5 L)	5 x 6.7 x 12 in (127 x 170 x 305 mm)	83 mm	12919	2/1
1.3 gallon (5 L)	5.2 x 8.7 x 16.3 in (132 x 221 x 414 mm)		12920	3/1
2.6 gallon (10 L)	6.4 x 10.75 x 24.2 in (163 x 273 x 615 mm)		12921	4/2
5.3 gallon (20 L)	8.1 x 13.6 x 25.2 in (206 x 345 x 640 mm)	120 mm	12922	7/3
10.6 gallon (40 L)	9.8 x 17.1 x 30.4 in (249 x 434 x 772 mm)		12923	11/5
High-Density Polyethylene Carboys, Amber, with Spigots				
1.3 gallon (5 L)	5.2 x 12 x 16.3 in (132 x 305 x 414 mm)	83 mm	12924	3/1
2.6 gallon (10 L)	6.4 x 13 x 19.5 in (163 x 330 x 495 mm)		12925	4/2
5.3 gallon (20 L)	8.1 x 15.25 x 25.2 in (206 x 387 x 640 mm)		120 mm	12926
10.6 gallon (40 L)	9.8 x 18.75 x 30.4 in (249 x 476 x 772 mm)	12927		11/5

*Note: Length includes spigot, where applicable.



12907



12908



12909



12911



12914



12924



Made from a hard, opaque material, dark amber carboys offer good chemical resistance and protection from light.

Polypropylene Carboys

Polypropylene construction allows for proper sterilization between uses

- Constructed from autoclavable USP Class VI, FDA grade materials
- Interchangeable caps and adapters provide top connection flexibility
- Rectangular ergonomic design saves valuable bench space

These polypropylene (PP) carboys feature large handles and base with molded grip allowing you to easily lift and pour. The material type and volume are printed on the outside of the carboy along with large, easy-to-read metric graduation marks that are certified to $\pm 5\%$ accuracy. Available in 83-mm and 120-mm sizes, the included PP cap with platinum-cured silicone gasket provides a tight spill-proof seal, and the larger 120-mm neck size allows you to reach into the carboy for quick and easy cleaning. Constructed from USP Class VI, FDA grade PP resin, the carboys provide good chemical compatibility when using with various reagents, buffers, and powders. For light sensitive applications and heat stability, choose the dark amber carboy. Sanitary neck options come without screw threads for easy cleaning. Polypropylene carboys can be autoclaved at 15 PSI and 250°F (121°C) for 20 minutes.

Carboys are compatible with interchangeable adapters, and on select models, spigot fittings. Leakproof polypropylene spigots include large spigot lever with two flow rates, continuous or manual, and features an internal luer taper that fits a male barb adapter. See page 13 to select from a wide range of adapters with molded or quick connect hose barb configurations for top connection flexibility, and additional spigots and versatile barbs for alternate bottom hosing connection options.

Need a clear carboy for aqueous solutions?

Visit our website and search on copolyester (PETG) carboys, available in four sizes.



12928



12929



12930



12932



12938



12945

Capacity	Nominal Dimensions* W x L X H	Cap Size	Model No	Ship wt lb/kg
Polypropylene Carboys				
0.7 gallon (2.5 L)	5 x 6.7 x 12 in (127 x 170 x 305 mm)	83 mm	12928	2/1
1.3 gallon (5 L)	5.2 x 8.7 x 16.3 in (132 x 221 x 414 mm)		12929	3/1
2.6 gallon (10 L)	6.4 x 10.75 x 19.5 in (163 x 273 x 495 mm)		12930	4/2
5.3 gallon (20 L)	8.1 x 13.6 x 24.2 in (206 x 345 x 615 mm)	120 mm	12931	7/3
	8.1 x 13.6 x 25.2 in (206 x 345 x 640 mm)		12932	7/3
10.6 gallon (40 L)	9.8 x 17.1 x 30.4 in (249 x 434 x 772 mm)		12933	11/5
19.8 gallon (75 L)	14.4 x 18.7 x 30 in (366 x 475 x 762 mm)		12934	18/8
Polypropylene Carboys with 3" Sanitary Neck				
2.6 gallon (10 L)	6.4 x 10.75 x 19.2 in (163 x 273 x 488 mm)	—	12935	4/2
5.3 gallon (20 L)	8.1 x 13.6 x 23.8 in (206 x 345 x 605 mm)		12936	7/3
10.6 gallon (40 L)	9.8 x 17.1 x 29 in (249 x 434 x 737 mm)		12937	11/5
Polypropylene Carboys with Spigots				
1.3 gallon (5 L)	5.2 x 12 x 16.3 in (132 x 305 x 414 mm)	83 mm	12938	3/1
2.6 gallon (10 L)	6.4 x 13 x 19.5 in (163 x 330 x 495 mm)		12939	4/2
5.3 gallon (20 L)	8.1 x 15.25 x 24.2 in (206 x 387 x 615 mm)		120 mm	12940
	8.1 x 15.25 x 25.2 in (206 x 387 x 640 mm)	12941		7/3
10.6 gallon (40 L)	9.8 x 18.75 x 30.4 in (249 x 476 x 772 mm)	12942		11/5
Polypropylene Carboys, Dark Amber				
1.3 gallon (5 L)	5.2 x 8.7 x 16.3 in (132 x 221 x 414 mm)	83 mm	12943	3/1
5.3 gallon (20 L)	8.1 x 13.6 x 25.2 in (206 x 345 x 640 mm)	120 mm	12945	7/3

*Note: Length includes spigot, where applicable.

Interchangeable Carboy Caps and Adapters

- Quick-connect cap adapters for quick and easy port changes
- Two-piece open cap and adapter design prevents tube twisting when opening
- Polypropylene (PP) caps and adapters are autoclavable

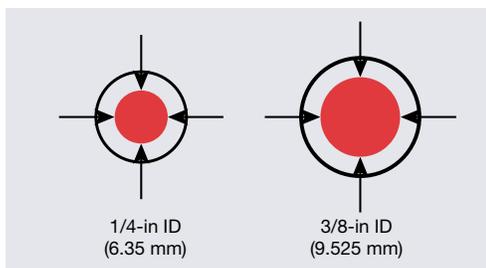
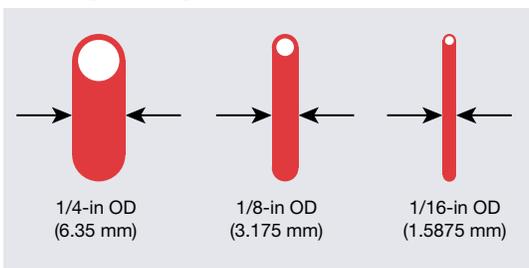
Leakproof, PP caps and interchangeable cap adapters provide a wide range of top connection configurations. Each cap is compatible with several adapters allowing you to change and configure carboy top connections based on your application requirements. Designed to be stackable, the caps feature large grips allowing you to easily open and tighten, and include platinum-cured silicone gaskets. Adapters are available with quick connect hose barb options including two, three, or four port combinations, as well as molded-in hose barb options, offering additional top connection flexibility. See pages 11 and 12 for compatible carboys. Polypropylene caps and adapters can be autoclaved at 15 PSI and 250°F (121°C) for 20 minutes.



Twenty-four popular models meet a variety of applications.

Visit our website for nearly 40 other cap/adapter and spigot options.

Tubing Sizing Guide for Ports



For measuring OD for ports, place the tube next to each of the images to determine the correct size of the tubing.

For measuring ID for hose barb ports, place end of tube flat on image below and determine if the dark area is contained by the tubing.

Also use sizing guide for VaporTrap™ waste systems, pages 9-10.

Description	Nominal Dimensions OD X H	Cap Size	Hose Barb Size	No of Quick Disconnects	Model No	Ship wt lb/kg			
Caps									
Closed cap, package of two	5 x 2.6 in (127 x 66 mm)	83 mm	—	—	12857	1/1			
Open cap with closed adapter, package of two	5 x 3 in (127 x 76 mm)		12858						
Open cap with two hose barbs and vent	5 x 4.6 in (127 x 117 mm)		1/4 in (6.4 mm)		12859				
Open cap with two hose barbs and vent			1/2 in (12.7 mm)		12860				
Closed cap, package of two	7.5 x 4 in (191 x 102 mm)	120 mm	—	—	12861	2/1			
Open cap with closed adapter, package of two	7.5 x 4.4 in (191 x 112 mm)		12862						
Adapters									
Closed adapter, clear top	3.2 x 1 in (81 x 25 mm)	83 mm	—	—	12868	1/1			
Adapter with two hose barbs	3.2 x 2.8 in (81 x 71 mm)		1/4 in (6.4 mm)		2		12869		
Adapter with two hose barbs			3/8 in (9.5 mm)				12870		
Adapter with three hose barbs			1/4 in (6.4 mm)		3		12871		
Adapter with three hose barbs			3/8 in (9.5 mm)				12872		
Adapter with four hose barbs			1/4 in (6.4 mm)		4		12873		
Adapter with four hose barbs			3/8 in (9.5 mm)				12874		
Adapter with two hose barbs and vent	3.2 x 1.9 in (81 x 48 mm)		1/4 in (6.4 mm)		—		12875		
Adapter with two hose barbs and vent			1/2 in (12.7 mm)				12876		
Closed adapter	4.7 x 2.1 in (119 x 53 mm)		120 mm		—		—	12877	
Adapter with two hose barbs	4.7 x 3.7 in (119 x 94 mm)				1/4 in (6.4 mm)			2	12878
Adapter with two hose barbs					3/8 in (9.5 mm)				12879
Adapter with three hose barbs		1/4 in (6.4 mm)		3	12880				
Adapter with three hose barbs		3/8 in (9.5 mm)			12881				
Adapter with four hose barbs		1/4 in (6.4 mm)		4	12882				
Adapter with four hose barbs		3/8 in (9.5 mm)			12883				
Adapter, converts 83 mm adapters to 120 mm	4.7 x 1.7 in (120 x 43 mm)	—		—	12884				

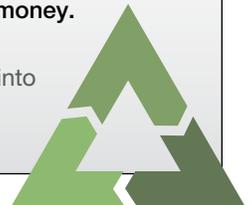
Benefits of Using an Aerosolv® Aerosol Can Disposal System

Companies can pay hefty fines for the improper handling of hazardous waste, and aerosol cans are no exception. Considered hazardous waste while still under pressure, it is illegal for businesses to dispose of spent aerosol cans in the trash.

With Aerosolv®, you can safely puncture the aerosol can, relieve the can's pressure, filter VOCs, and collect any residual liquids. Punctured, discharged cans do not meet the definition of hazardous waste per EPA 40CFR 261.23(a)(6), and thus can be treated as recyclable scrap steel.

Over 3 billion aerosol cans are produced annually in the U.S. alone.* Turning aerosol cans from hazardous waste to recyclable steel not only avoids costly fines, it helps lower the impact on our environment and saves money. Using Aerosolv®:

- Saves companies thousands of dollars on hazardous waste disposal costs
- Minimizes hazardous waste streams and saves on landfill space for a cleaner environment
- Recycled steel turns into recycling profits



*Source: Consumer Specialty Products. (CPSA)

PROBLEM	SOLUTION	SAVINGS
<p>HAZARDOUS WASTE DISPOSAL EXPENSE</p> <p>55 GALLON DRUM</p> <p>\$750</p>	<p>AEROSOLV®</p> <ul style="list-style-type: none"> • Depressurization • Residual liquid collection • Aerosol can recycling 	<p>HOLDS RESIDUAL LIQUIDS OF 4000 SPENT AEROSOL CANS</p> <p>COST TO DISPOSE AEROSOL CANS</p> <p>\$0</p>
<p>Approximately 4 aerosol cans equal one pound of steel.</p> <p>Every pound of steel recycled saves 5,450 BTUs of energy ... enough to light a 15-watt compact fluorescent light (CFL) bulb for over 100 hours.†</p> <p>†Source: PA Dept. of Environmental Protection</p> <p>TURN CANS INTO RECYCLABLE STEEL</p> <p>\$\$\$</p>		

Four Systems to Suit Your Need and Budget



Aerosolv®



Aerosolv® Super System



Aerosolv® Dual-Compliant



Aerosolv® 360

Aerosolv® 360 Aerosol Can Recycling System

Safe, easy way to transform aerosol cans into recyclable steel—minimize waste and reduce disposal costs

- Fully enclosed system—dual seal chamber eliminates the potential for content spray back, VOC release and reduces gunk build up
- High efficiency combination coalescing carbon filter captures odors and potentially harmful VOCs from being released into the air—extended filter life reduces change outs, saving time and money
- Alignment cone and two-way pressure controlled, non-sparking vent pin offers the most efficient point of puncture—greatly reduces cleanup and minimizes maintenance
- Intuitive, ergonomic activation wheel design is easy to use, and with no handle hanging over the side of the drum, eliminates any chance for snagged clothing or tipped drums

The Aerosolv® 360 system safely converts spent aerosol cans from solid hazardous waste to a non-hazardous, recyclable material. Threading directly into a standard 2-in (51-mm) bung on a 30- (110-liter) or 55-gallon (200-liter) drum, the housing accommodates a wide variety of the most common sized cans, including domed mini, standard, and jumbo. Sleek design with no protruding handle—mechanical activation wheel with rack and pinion gear increases torque making can processing easy and fast. Integrated lock out system prevents unauthorized use and tamper-proof retention plate secures the unit to the drum. Non-sparking puncture pin pierces the can and directs the liquid flow straight into the drum for a quick, controlled evacuation. Special non-stick coating on housing minimizes static transfer to the unit while at the same time reduces clean up.

Attach the two-stage high-efficiency combination filter to the 3/4-in (19-mm) bung to capture VOCs from any remaining propellants. Replaceable, proprietary polymer coalescer in filter base captures the residual liquid in the gas before it reaches the activated carbon, helping extend the life of the filter. The top activated carbon filter cartridge features adsorption indicator which reacts to the adsorption of VOCs to indicate when the filter cartridge is ready for replacement. Built-in counter tracks system use for maintenance. System also includes safety goggles and an anti-static ground wire with alligator clip.

One 55-gallon (200-liter) drum holds approximately 4,000 spent aerosol cans. Punctured, discharged, cans do not meet the definition of hazardous waste per EPA 40 CFR 261.23(a)(6), and thus can be treated as recyclable scrap metal. EPA compliant.



Fully closed recycling system punctures and drains aerosol cans with no content spray back—transforms cans from a hazardous to non-hazardous state.



Most efficient puncture point at the dome top (rather than side) offers fast evacuation and less mess.



Fully enclosed system eliminates spray back—dual seal design seals at point of puncture and housing cap.



Ultra-efficient coalescer extends filter life by 33%—less change outs, saving time and money.



Includes grounding wire, goggles, and handy dipstick for measuring drum contents.



Description	Shipping Dimensions W x D x H	Model No	Ship wt lb/kg
Aerosolv® 360 System	17 x 17 x 7 in (432 x 432 x 178 mm)	38100	12/5
Filter replacement kit: carbon cartridge and coalescer (2 pack)	10 x 5 x 5 in (254 x 127 x 127 mm)	38102	2/1

Available from Justrite® New Hughes Safety Showers

It's all about response speed

10 seconds from hazard

It's all about **your safety**

Hughes Safety Showers offer an extensive range of Emergency Safety Showers and Eye/Face wash stations providing the first line of defense in the event of a chemical spillage. Delays in washing off dangerous substances can result in more serious injury. Our temperature controlled indoor and outdoor showers, tank showers, mobile and portable units provide accessible and easy to operate solutions for your industry and are designed to meet and exceed ANSI Z358.1 2014 standards.



60-100°F water temperature

20 gallons per minute water flow

15 minutes continuous water flow



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