

Foxx Life Sciences' Heavy Duty (HD) Solvent Waste System is designed to be an affordable solution for liquid waste disposal. Each system is manufactured to safely collect waste from one or more HPLC systems while the carbon exhaust filter improves air quality by capturing potentially harmful vapors emitted from solvents. Each system includes a 2.5L, 4L, 5L, 10L, or 20L HDPE container, two 83B VersaCap® (one open top for waste collection and one closed for safe transport), various ports for waste tubing, 1 port for a carbon exhaust filter, 1 carbon exhaust filter, and plugs for unused ports.



The HD Solvent Waste System manifold attaches to the EZgrip™ Carboy allowing for safe waste collection.

- 1 Carbon exhaust filter* traps solvent vapors
- 2 Tube fittings secure waste tubes to carboy providing a closed system that prevents vapors from escaping
- 3 90° adapter included for maximum storage flexibility
- 4 VersaCap® technology eliminates the need to remove tubing from open cap to install closed cap
- 5 Plugs included for unused ports
- 6 Replacement sulfur-cured EPDM gasket for high chemical compatibility against aggressive organic solvents
- 7 Closed 83B Versa Cap® included for safe transport
- 8 High Density Polyethylene EZGrip™ carboy features advanced ergonomic design and superior chemical compatibility

*Depending on application, carbon exhaust filter life cycle may vary





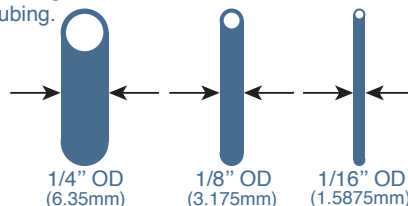
	1/8" OD PORTS	1/4" OD PORTS	1/4" or 3/8" HB PORT	PART NUMBER
2.5L	6	-	-	332-1412-OEM
	6	-	1	332-1418-OEM
	4	3	-	332-1413-OEM
	4	4	-	332-1421-OEM
	4	3	1	332-1419-OEM
4L	6	-	-	332-9412-OEM
	6	-	1	332-9418-OEM
	4	3	-	332-9413-OEM
	4	4	-	332-9421-OEM
	4	3	1	332-9419-OEM
5L	6	-	-	332-2412-OEM
	6	-	1	332-2418-OEM
	4	3	-	332-2413-OEM
	4	4	-	332-2421-OEM
	4	3	1	332-2419-OEM
10L	6	-	-	332-3412-OEM
	6	-	1	332-3418-OEM
	4	3	-	332-3413-OEM
	4	4	-	332-3421-OEM
	4	3	1	332-3419-OEM
20L	6	-	-	332-4412-OEM
	6	-	1	332-4418-OEM
	4	3	-	332-4413-OEM
	4	4	-	332-4421-OEM
	4	3	1	332-4419-OEM
20L (ROUND)	6	-	-	332-D412-OEM
	6	-	1	332-D418-OEM
	4	3	-	332-D413-OEM
	4	4	-	332-D421-OEM
	4	3	1	332-D419-OEM

* 1/16" OD Adapters are also available for the HD line as cap only assemblies.

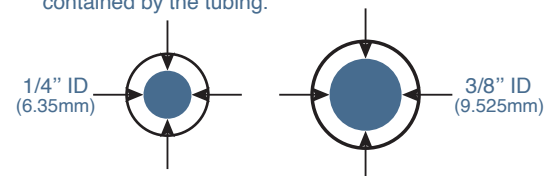
Solvent Waste System Sizing Guide

Due to all the possibilities with configuring your EZwaste Solvent Waste System, we have provided the following images to help identify the fitting required for your laboratory setup. All measurements are approximate.

① For measuring OD, place the tube next to each of the images to determine the correct size of the tubing.

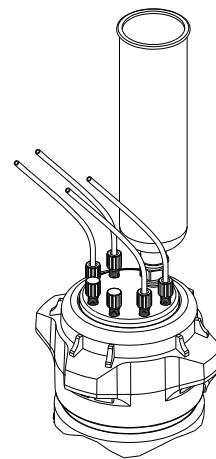


② For measuring ID, place end of tube flat on the piece of paper and determine if the dark area is contained by the tubing.



EZwaste[®]

SOLVENT WASTE SYSTEM



Installation Instructions:

Installation of exhaust filter

1. Place adapter with gasket onto carboy neck (gasket side down) and place open cap over adapter. Screw the closure down fully to secure the adapter.
2. Select which exhaust filter adapter is best for the installation location, either the black 90° elbow or straight filter adapter.
3. Thread the black adapter into the exhaust hole labeled, labeled 'A' in *Figure 1*. Thread finger tight and then secure with one (1) full rotation of a 5/8" wrench.
4. Remove exhaust filter from foil pouch and inner plastic bag. Remove end caps from exhaust filter and screw onto adapter.
5. Record date of installation for tracking.

Installation of tube fittings and connection to HPLC waste lines

1. Position the ferrule approximately twenty-five (25) millimeters (or about 1.0") from the end of the HPLC tubing. Refer to *Figure 2* for proper orientation of ferrule.
2. Feed waste line tubing through provided blue nut and yellow ferrule and then through one of the waste line holes labeled 'B' in *Figure 1*. Check to ensure that the tapered end of the ferrule is facing the nut.
3. Position ferrule and nut assembly into waste line hole and screw nut finger tight to seal the tubing.
4. Repeat steps 1 and 2 for each HPLC waste line. Close any unused holes using the provided black plugs.
5. Note, these tube fittings can also be used for sensor lines if the tubing is 1/8" OD. Simply feed tubing through ferrule to the desired depth into the carboy and tighten down the nut to seal the tubing.

FIGURE 1: HPLC Adapter

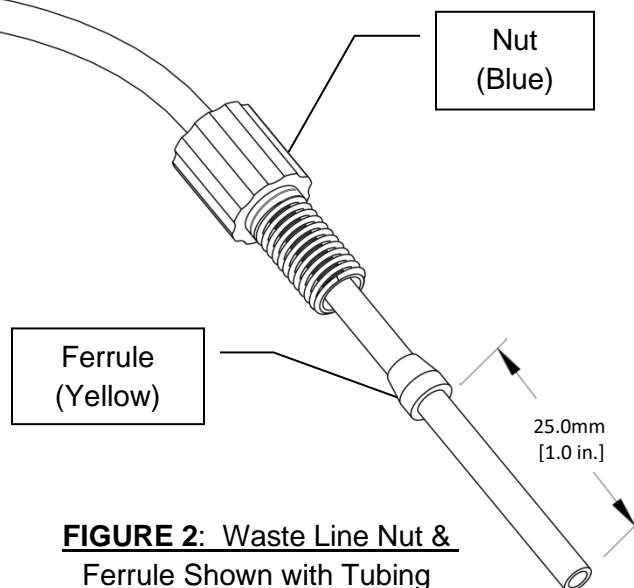
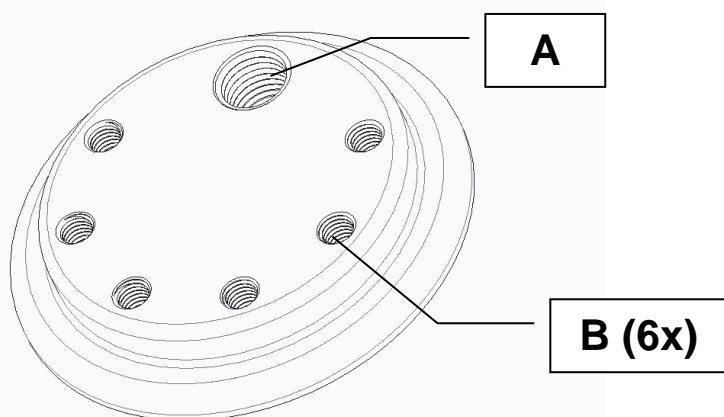


FIGURE 2: Waste Line Nut & Ferrule Shown with Tubing

Filter Replacement Schedule:

The EZWaste® Solvent Waste System includes a chemical exhaust filter that will adsorb the vapors from the solvents stored in the carboy. Once the media inside of the filter becomes fully saturated it will need to be replaced. The actual time required to saturate the media is dependent on several factors such as solvent time, flow rate, concentration, temperature, and pressure. At a typical analytical flow rate of 1mL per minute at STP, the following replacement schedule should be observed:

- Reverse Phase Solvents: Replace exhaust filter every 3 – 4 months.
- Normal Phase Solvents: Replace exhaust filter every 20 – 30 days.

Indications that the exhaust filter may be saturated and due for replacement:

- If the exposed filter seems “heavier” than a new filter
- If the filter smells strongly of organic solvent
- If the contents no longer “shake”. The exhaust filter is packed with loose media, which will rattle when a fresh filter is shaken.
- If excessive back pressure is observed in the container during normal flow rates (1 – 2 mL per minute)

WARNING

Never overflow a solvent container or expose the exhaust filter to direct fluid contact as this will saturate the filter immediately.

Always dispose of saturated exhaust filters in accordance with local regulations

Replacement Parts:

Foxx Life Sciences offers the following replacement items for use with your EZWaste® system:

Part Number	Description	Pack Quantity
330-0901-OEM	Replacement Chemical Exhaust Filter	2x per Box
330-0902-OEM	Replacement Fittings 1/8" OD Fittings and 1/4" fittings Pack	1x 6-pack of Nuts & Ferrules 1x 6-pack of Plugs 1x Filter Port Plug 1x Straight Filter Adapter 1x 90° Elbow Filter Adapter
330-0903-OEM	EZwaste® Breakthrough Indicator	1x per Box
330-0904-OEM	EZwaste® Breakthrough Indicator	2x per Box
330-0905-OEM	Replacement Fittings, 1/8"-27 NPT Variety Pack, One 1/4" Hose Barb, One 3/8" Hose Barb, One Plug	1x 1/4" Hose Barb Adapter 1x 3/8" Hose Barb Adapter 1x 1/8" MNPT Plug
330-0906-OEM	Replacement Chemical Exhaust Filter	1x per Box
330-0907-OEM	Replacement Chemical Exhaust Filter	5x per Box
330-0908-OEM	EZwaste® Breakthrough Indicator	5x per Box
330-0909-OEM	Large Replacement Chemical Exhaust Filter	1x per Box
330-0910-OEM	XL Replacement Chemical Exhaust Filter	1x per Box
330-0912-OEM	Replacement Fittings, EZwaste® Safety Vent, 1/16" OD Tube Fittings	1x 6-pack of Nuts & Ferrules

Reference Document: 11183-00

Rev. Date: 18 JUL 2023

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