

## HPLC Accessories

Inlet Filters, Debubbler

### Union for 2 µm Inlet Filter

For Connecting	Cat. No.	Qty
1/8 to 1/16 in.	22999	1 ea
1/8 to 1/8 in.	22041	1 ea

### Optional PTFE Ferrules for 2 µm Inlet Filter Union

Description	Cat. No.	Qty
PTFE front ferrule, Swagelok for 1/8 in. tubing	22058	10 ea
PTFE back ferrule, Swagelok for 1/8 in. tubing	22059	10 ea
PTFE front ferrule, Swagelok for 1/16 in. tubing	22068	5 ea
PTFE back ferrule, Swagelok for 1/16 in. tubing	22069	5 ea

### Mobile Phase Solvent Debubbler with Bracket

Gas bubbles in the mobile phase reduce pump output and cause check valves to malfunction. The mobile phase debubbler removes bubbles from the pump inlet line. Bubbles in the incoming mobile phase rise in the debubbler, displacing an equal volume of liquid from the debubbler reservoir to the pump. When necessary, simply remove the cap and refill the reservoir – the gas-liquid interface is visible through the housing. Compatible with 1.5 mm I.D. and 3.0 mm I.D. PTFE tubing used with Waters and other popular HPLC pumps. KEL-F, PTFE, and 316 stainless steel construction.



58453	1 ea
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### Biocompatible Inlet Filters

**Bottom-of-the-Bottle™ 2 µm Filters**—These Upchurch filters have an integrated 2 µm PEEK sparging frit. Connect to 1/8 in. tubing through push-on connectors.

**10 µm Inlet Filter** - This metal-free Upchurch unit consists of a replaceable 10 µm ultra-high molecular weight polyethylene filter that screws into a Tefzel holder. The unit connects to the inlet tubing through a flangeless Tefzel fitting (included).

Description	Cat. No.	Qty
Bottom-of-the-Bottle™ filter/sparger, 2 µm	55058	1 ea
Bottom-of-the-Bottle™ filter/sparger, 2 µm	A437	1 ea
Inlet Filter Assembly, 10 µm	56705	1 ea
Filter Cup for UHMWPE Bottom-of-the-Bottle™ solvent filter, 10 µm	56706	5 ea

### FEP Tubing for Inlet Filters

L × O.D. × I.D.	Cat. No.	Qty
10 ft × 1/8 in. × 0.0625 in.	58694-U	1 ea
10 ft × 0.15 in. × 0.118 in.	58695-U	1 ea

## Vacuum Pumps

### KNF Laboport® mini-pump

The ideal pump for vacuum and pressure filtration, solid phase extraction, and blotting. High performance diaphragm vacuum/pressure pumps for moderately corrosive applications and any filtration or procedure that requires clean evacuation, transfer and compression of air, gases, and vapors. Pumps are available with gauges and regulators for precise control of vacuum and pressure.

- Portable
- Oil-free
- Quiet operation
- Maintenance-free, Ryton® pump head
- Molded PTFE diaphragm
- Kalrez® multi-port valves
- Single stage

CE compliant	.....
vacuum	..... ~120 torr
max. pressure	..... 35 psig
pumping speed	..... 5.5 L/min
weight	..... 4.2 lb



Description	Cat. No.	Qty
Pump only, 115 V	Z288284-1EA	1 ea
Pump with vacuum gauge and regulator, 115 V	Z288225-1EA	1 ea
Pump with pressure gauge and regulator, 115 V	Z288306-1EA	1 ea
Pump only, 230 V	Z288292-1EA Z288292EU-1EA Z288292GB-1EA	1 ea 1 ea 1 ea
Pump with vacuum gauge and regulator, 230 V	Z288268-1EA	1 ea
Pump with pressure gauge and regulator, 230 V	Z288314EU-1EA Z288314-1EA	1 ea 1 ea