

# QUARK

Issue 9 Q4 2019

# Magazine

In this issue you can read about:

DEGASi High Flow 1000

DEGASi Prep+

TUBI – Tubing Your Way

SMART SAVE® Solvent Recycling Unit

MarvelXACT



## DEGASi® HIGH FLOW 1000 FOR WATER SOLUTIONS

**DEGASi® HIGH FLOW 1000** degasser works with real high flow rates and ultra-high degassing efficiency. With water-based solutions it removes dissolved gases at flow rates up to 1000 ml/min. The degasser is equipped with the new superior Systec® DST pump which is more reliable and almost entirely silent – a remarkable upgrade from older versions. This pump is also lighter and operates with less vibrations.

### APPLICATIONS

- Clinical chemistry analyzers
- Dispensing applications
- Dissolution testing
- Process applications
- High-throughput applications
- Ink degassing (water based ink)
- Water based buffer solutions

	<b>DEGASi® HIGH FLOW 1000</b>
Recommended flow rate:	0–1000 ml/min
Maximum Flow Path Pressure:	14 PSI/1 bar
Wetted Materials:	Silicone, PVC, Nitrile Rubber, Polyamide
Liquid Connection:	Barb for ID 10
Pressure Drop:	<20 kPa @600 mL/min
Applicable Solvents:	Water and buffer solutions
Size (L x H x W) weight:	365x135x150 mm 5300g
Article number	0037-OOP16E5



## DEGASi® PREP+ FOR ORGANIC SOLUTIONS

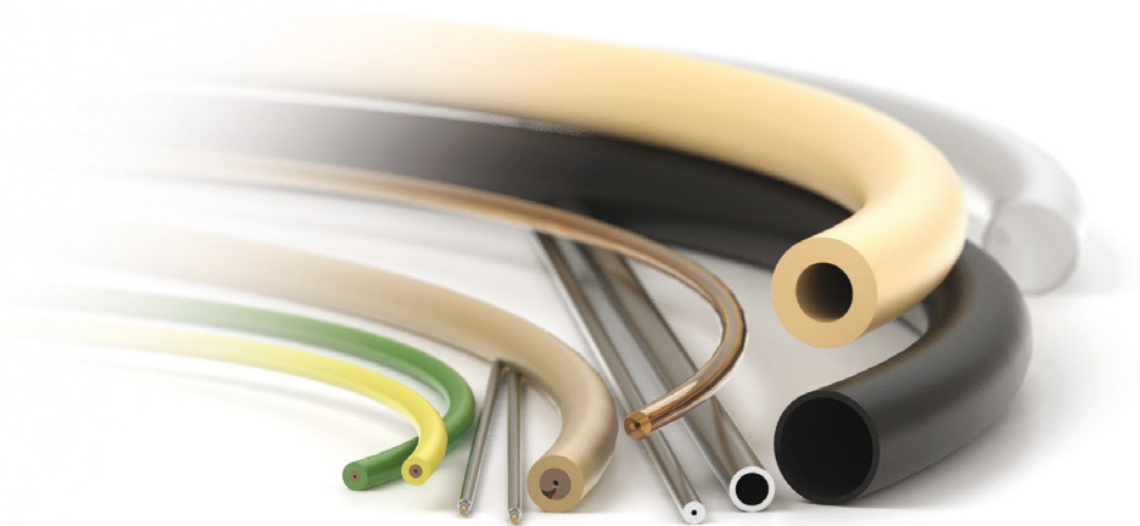
DEGASi® PREP+ is the world's first in-line, membrane degasser ready to use with aggressive media and organic solvents, while maintaining flow-rates efficient degassing at up to 100 ml/min/channel\*. Available configurations: Stand alone, OEM open frame with 1-4 channels.

\* Parallel usage of channels enables flowrates of 200 ml/min (2 channels) or even 400 ml/min (4 channels).

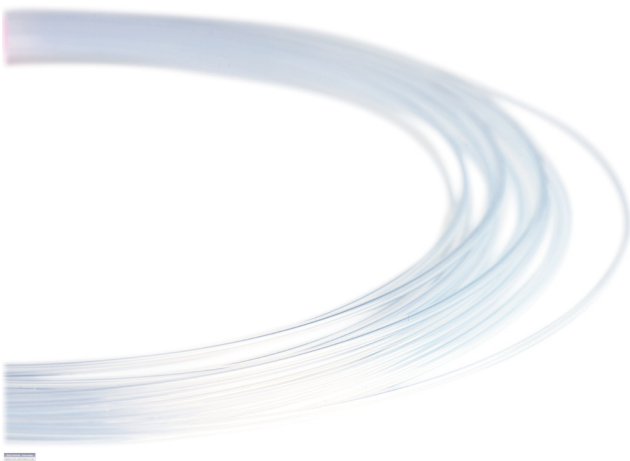
### APPLICATIONS

- Preparative HPLC
- Flash chromatography
- High-throughput applications
- Dispensing applications
- Available in 1, 2 and 4 channels and with optional analytical flow chamber
- Ink degassing - all types of ink including organic solvent based ink and UV-ink

	DEGASi® PREP+
Recommended flow rate:	75-100 max 200 ml/min (per channel)
Maximum Flow Path Pressure:	50 PSI/3.5 bar
Wetted Materials:	Systec AF™, FEP, Tefzel, PTFE and Glass-filled PPS
Liquid Connection:	1/4"-28 Female Port
Pressure Drop:	0.0226.kPa/ml/min
Applicable Solvents:	All solvents except Fluorinated
Size (L x H x W) weight:	260x110x150 mm (1- and 2-channels) 260x110x290 mm (4-channels)
Article number	0001-0120 1 channel 0001-0220 2 channels 0001-0420 4 channels



# TUBI – TUBING YOUR WAY



Tubing is an essential part of every fluidic system. With our knowledge in the field we can assist you in finding the most suitable tubing solution for your needs. It is easy, smart and economical to ask us first. You will get tubing your way. We have a wide range of high quality tubing of different material, OD & ID and color.

Furthermore we offer clean room manufactured tubing and standard to extreme tolerances on OD & ID.

Our OEM solutions include customized solutions with pre-cut tubing, mounted fittings, packaging with your label and much more.

## STANDARD

### HOW TO ORDER YOUR TUBING



MATERIAL

+



OD & ID

+



COLOR



## MATERIAL

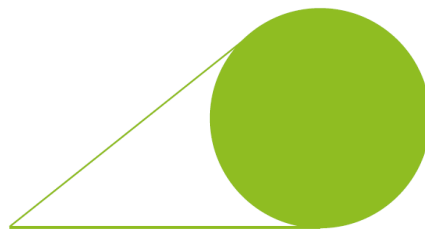
Wide variety of materials of highest quality.

- PEEK
- ETFE
- PFA
- PE
- EVA, EMA, EBA
- PET, PBT
- Stainless Steel
- PTFE
- FEP
- PVDF
- PP
- POM
- PC
- PA



## OD & ID

All common dimensions as well as more unusual options.

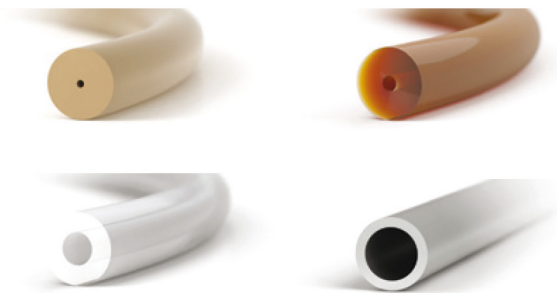


From 0.1 mm to 25 mm



## COLOR

Natural or colorful.



## OEM SOLUTIONS & OPTIONS



LENGTH & FITTINGS



FLANGED OR THERMO FORMED



PRINTED OR TUBING MARKERS



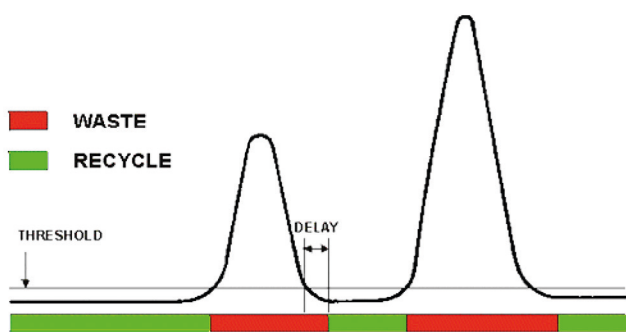
CLEAN ROOM MANUFACTURED

# SMART SAVE®

## Solvent Recycling Unit

### USB Solvent Recycler

USB Solvent Recycler is a device dedicated for use in isocratic HPLC. Efficient recycling of mobile phase may save up to 90% of solvent. Usually, most of the mobile phase is free of contaminants and must not be wasted. With continuous monitoring of the detector signal solvent recycler performs redirection of the uncontaminated mobile phase back to the solvent reservoir and save the solvent and waste disposal costs. According to input signal level the 3-way valve is switched to waste or recycle position. The switching valve is connected to the detector mobile phase output. If the signal level is greater than signal threshold, the valve is switched to waste position. The back switching to recycle position is delayed with respect to time required to liquid transport from the detector cell to 3-way valve (see illustration below).



### General Specifications

Input Range:	± 1000 mVolts
Threshold:	1 - 1000 mVolts (detects both positive and negative peaks)
Delay:	0 - 255 second
Autozero:	50% of input range
Valve:	3 way electrically actuated, 1/3 - 28" flat bottom fittings, 30 psi max.
Wetted Materials:	PEEK (valve body), PTFE (valve membrane, tubing)
Inputs:	Analog, TTL (contact closure) user configurable
Indicators:	Ready (yellow) LED, Recycle (green) LED
PC Communication:	USB
Power Requirements	5 V/100mA (USB powered)

### Tubing Connection

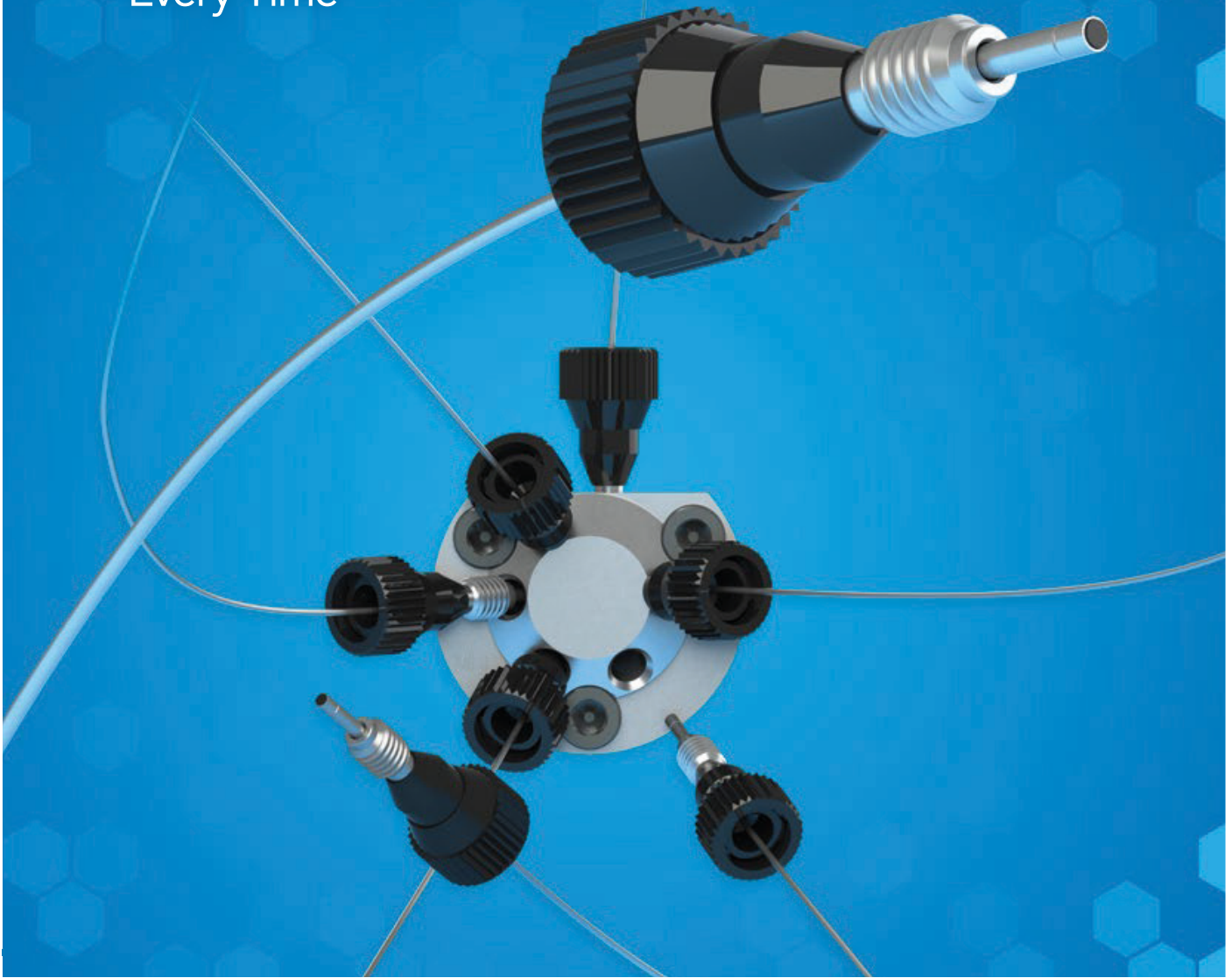
Use the 1/16" PTFE tubing and flange free fittings. Ferrule must be placed in the proper position against the nut (see illustration). Detector mobile phase output should be connected to common port of 3 - way valve of recycler (marked as DETECTOR). Connect RECYCLE valve port with the mobile phase reservoir, WASTE port with the solvent waste bottle.

### Software Installation

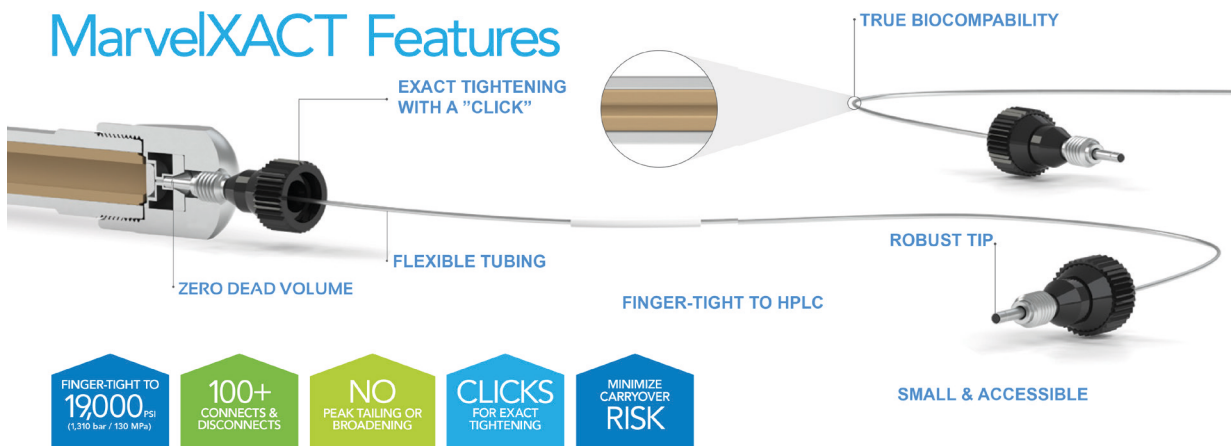
Install the software package prior connection of USB recycler to the computer. Insert software CD into drive on your computer and wait until the installation process automatically starts. If the auto play function is disabled, run setup.exe from the root folder of CD. Follow the instruction of the installer.



Trouble-Free  
UHPLC Connections  
for Exact Performance  
Every Time



## MarvelXACT Features





Get the Biotech USB-stick with the 160 pages IDEX Catalog or the 32 pages Biotech DEGASi Brochure with the 160 pages IDEX catalog included.  
It's yours for the asking!



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