

EZ9000 Series Self-cleaning Filtration Systems

Applications

- Wastewater
- Surface water



Universal self-cleaning filtration systems - compatible with all EZ Series online analysers

About the EZ9000 Series

The successful implementation of online analysers in process control strategies could not have been achieved without the development of a new generation of automatic sampling and sample preconditioning systems. The EZ9000 Series are the result of many years of field experience in combining analysers with filtration units.

Simplified operation by self-cleaning action

All preconditioning systems are designed for fully automatic operation and require virtually no human intervention. Basically all systems are incorporated either with a blowback action by instrument air, or a specific cleaning cycle. This fundamental design principle does not merely allow trouble-free sampling, moreover it contributes to high uptimes.

The EZ9010 and EZ9020 systems are front runners of the filtration series and the standard designed for reliably delivering filtered samples to an online analyser. The self-cleaning feature of the unit includes a blowback action with sample to prevent the filter element, the sample tubing and the analyser from blocking and blinding. Prime features include:

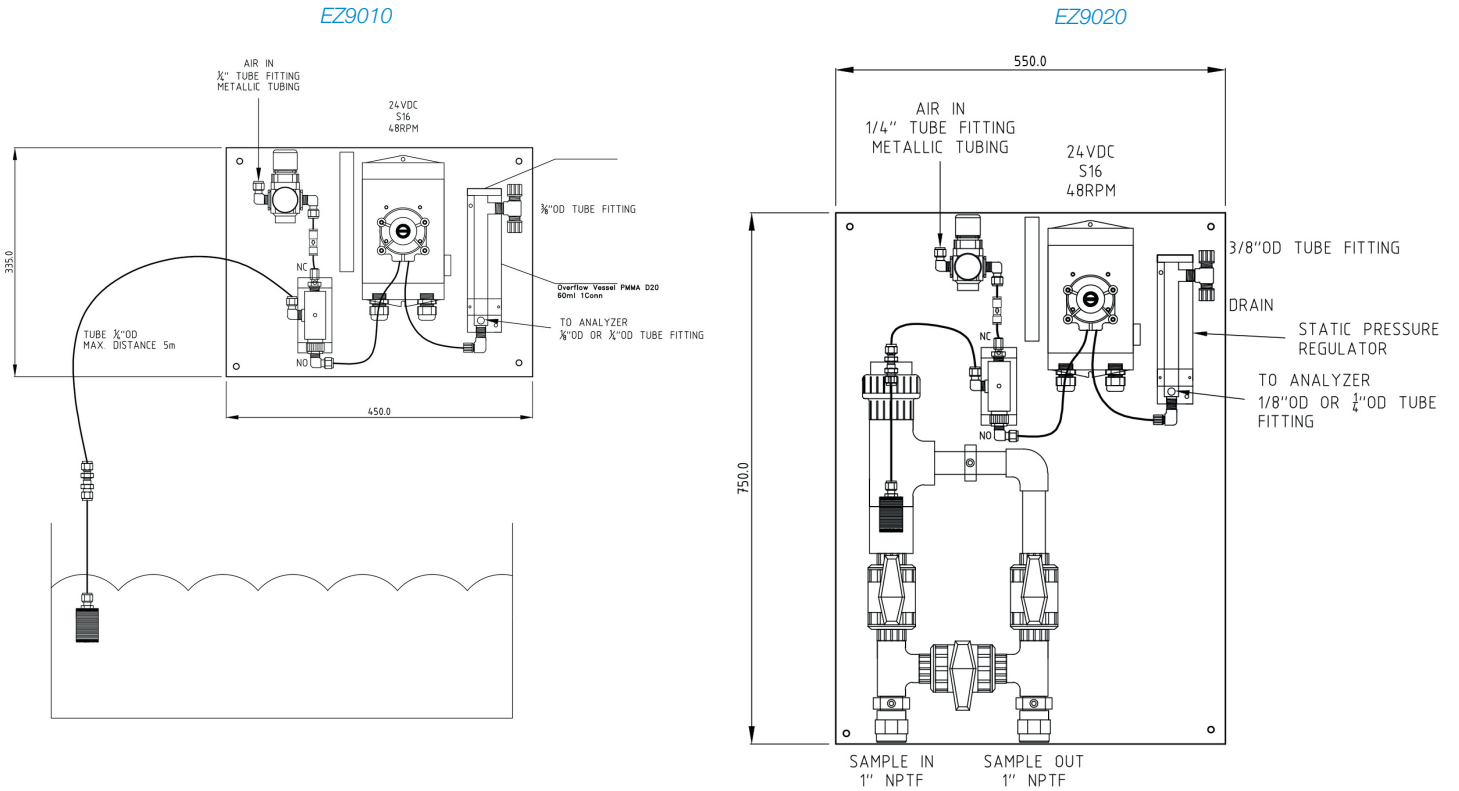
- Self-cleaning sample filtration with various pore sizes
- Automatic cleaning action: blowback by solenoid controlled instrument air
- Static Pressure Regulator assures a constant, readily available sample level at atmospheric pressure
- PLC or analyser controlled cleaning frequency

Technical Data*

Cleaning	Automatic blowback by solenoid controlled instrument air
Pore size	50 µm 100 µm 200 µm
Required fast loop	2 m/s
Sample temperature	Max. 65 °C
Instrument air	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air
Drain	Sample return line 1" BSF; overflow Static Pressure Regulator 3/8" OD
Power	24 VDC, powered by analyser or external supply
Earth connection	Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm ²
Protection class	IP55
Material	Filter: SS 316L Piping: PVC Manual ball valves: PVC Tubing: Norprene, PFA, PE Static Pressure Regulator: PMMA Panel: weather resistant Trespa
Dimensions (H x W x D)	750 mm x 550 mm x 200 mm
Weight	12 kg

*Subject to change without notice.

Dimensions - Drawings



Hach Service

With Hach Service, you have a global partner who understands your needs and cares about delivering timely, high-quality service you can trust. Our Service Team brings unique expertise to help you maximise instrument uptime, ensure data integrity, maintain operational stability, and reduce compliance risk.

Order Information - Part Number Configurator

Filtration system, standard version, for immersion	EZ9010.99	X	X	X	X	X	X
Filtration system, fast loop	EZ9020.99						
Cleaning							
Backflush valve controlled by timer (local dipswitch) - AIR		1					
Backflush valve controlled by analyser - AIR (recommended) ¹⁾		3					
Backflush valve controlled by analyser - WATER ¹⁾		4					
Pore size							
50 µm			1				
100 µm			2				
200 µm			3				
Power supply							
Powered through analyser					0		
Stand-alone unit - 24 VDC needed					1		
Length of tubing-heating							
Standard						0	
Up to 3 m (EZ9010 only)						A	
Up to 6 m (EZ9010 only)						C	
Up to 10 m (EZ9010 only)						E	
Up to 15 m (EZ9010 only)						G	
Up to 20 m (EZ9010 only)						I	
Other options							
Manual (continuous) sample pump, incl. overflow vessel without drain valve							0
Sample pump controlled by analyser, incl. overflow vessel without drain valve ¹⁾							1
Sample pump controlled by analyser, incl. overflow vessel with drain valve ¹⁾							3
Manual (continuous) sample pump, incl. overflow vessel and connections to 2 analysers, without drain valve							4
Number of sample streams							
1 stream							1

¹⁾ Not in combination with stand-alone unit power supply