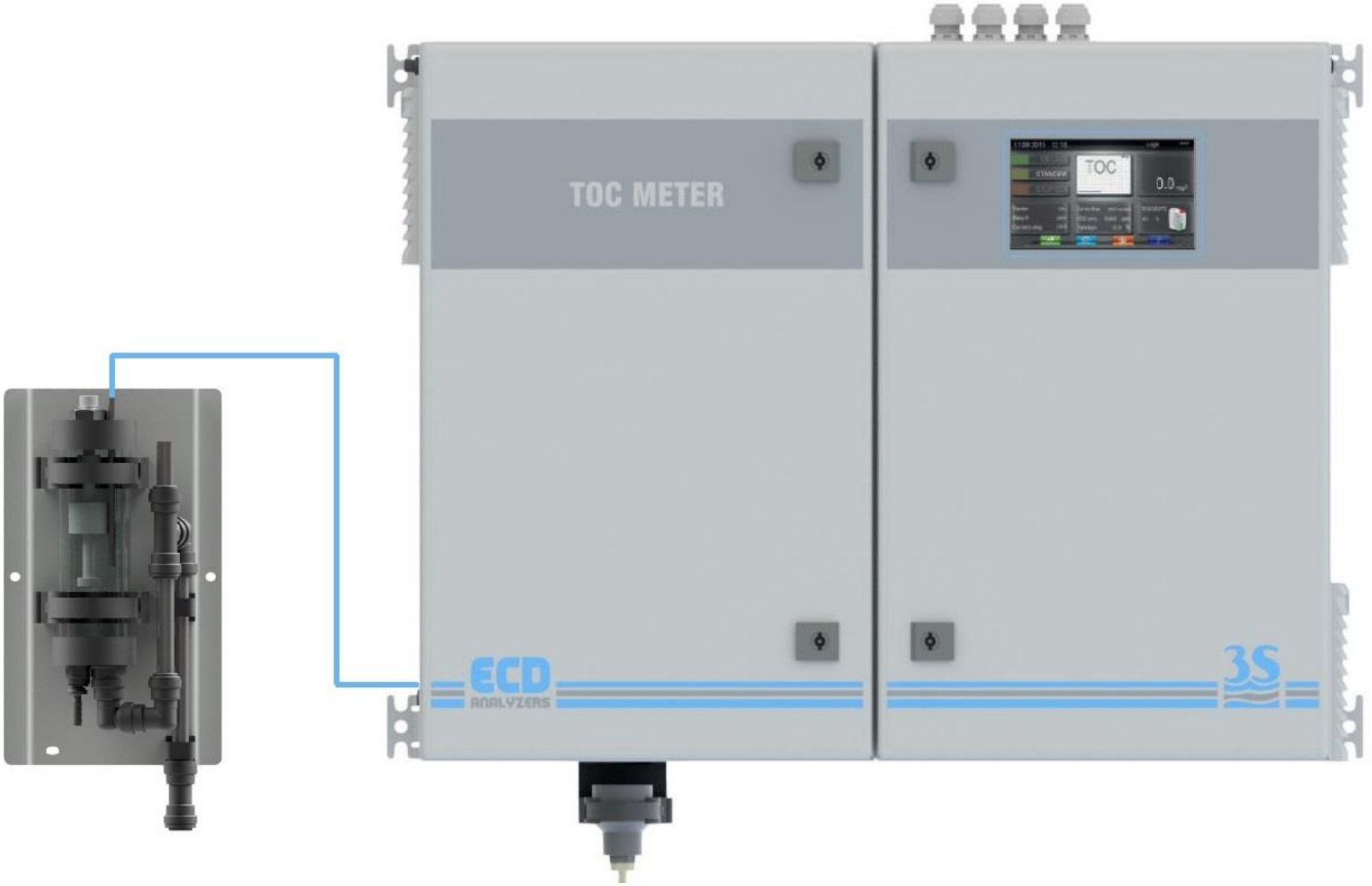
Product Configurations

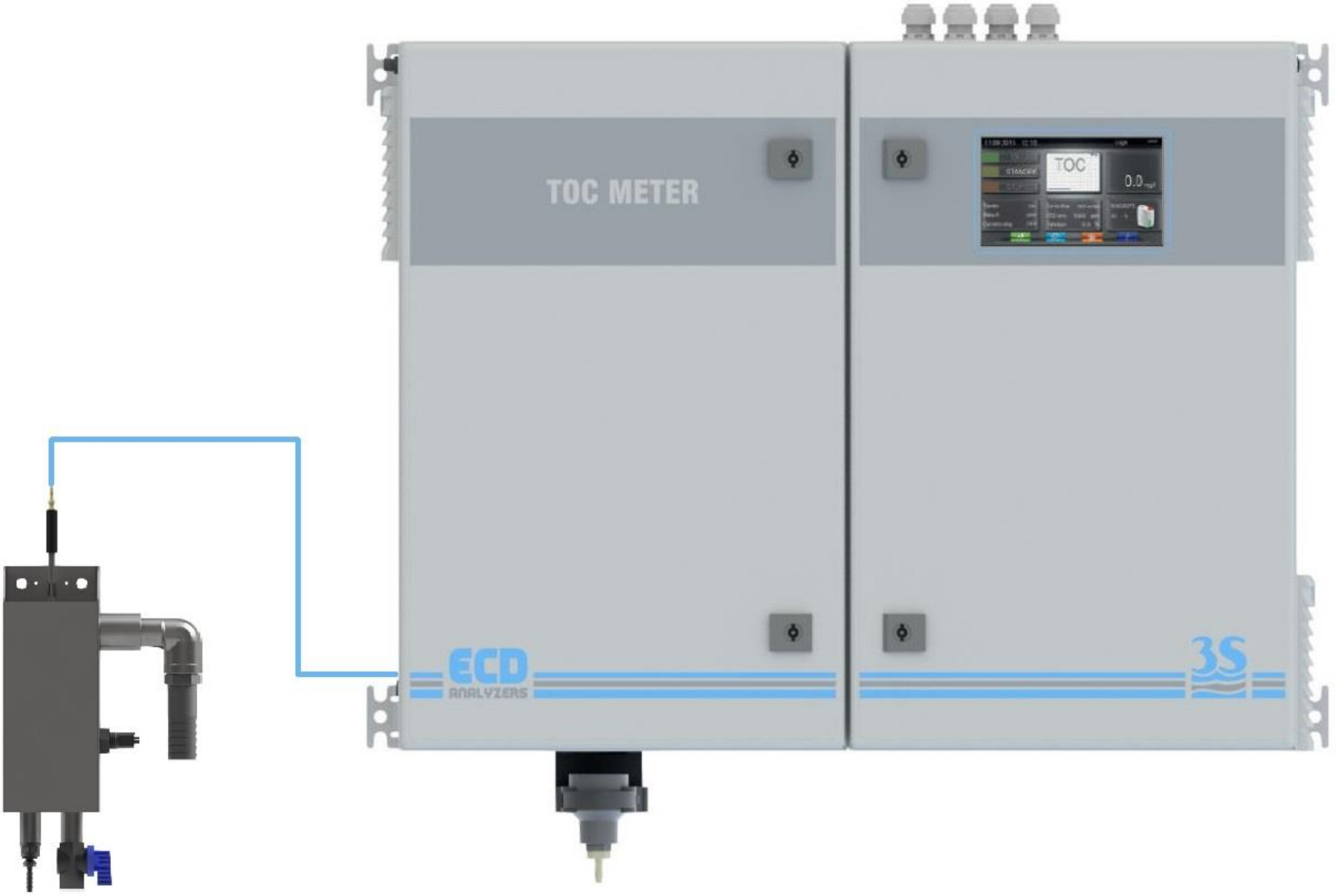
- Basic version
- Extending the range
- Options for installation

Quotation

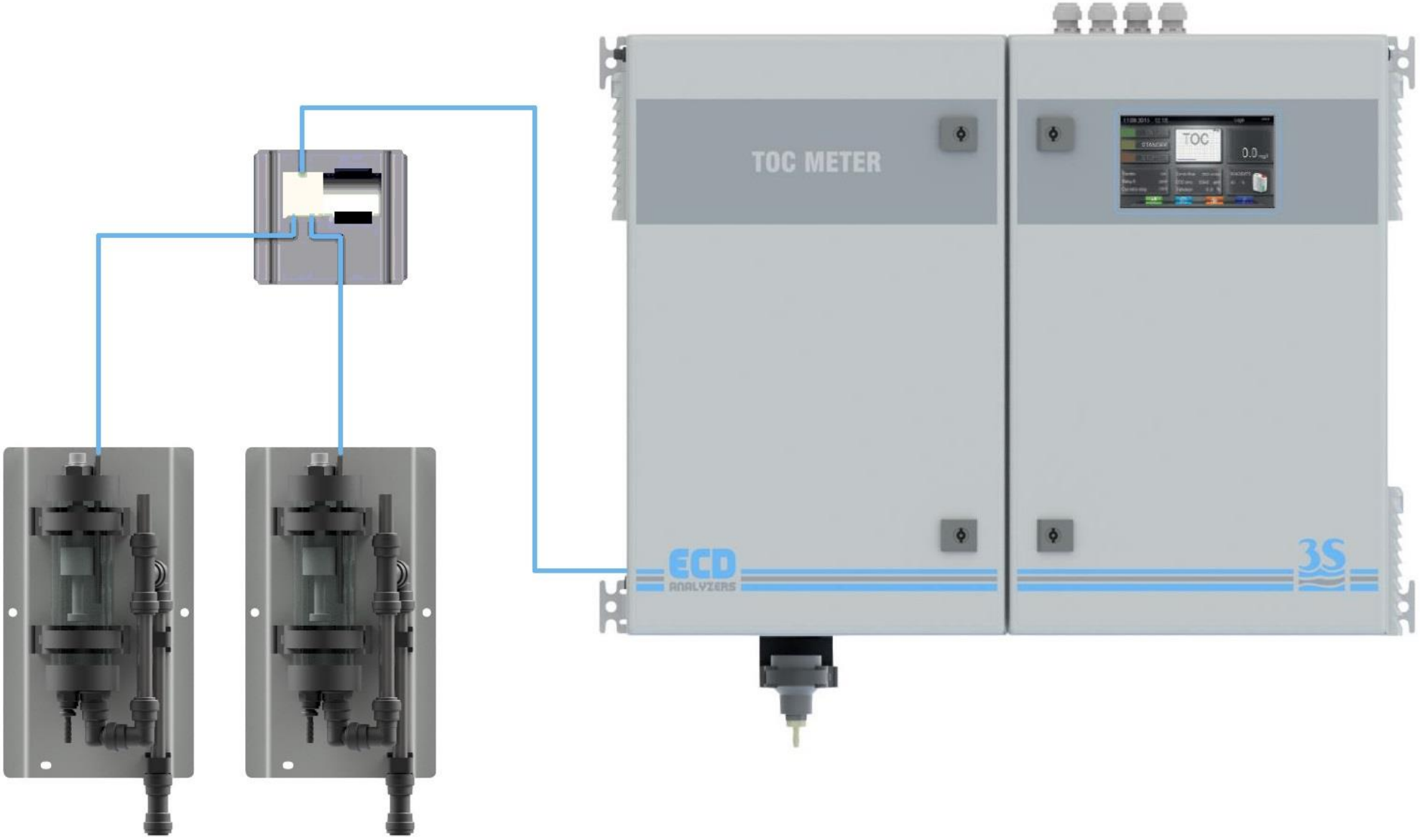
TOC – Basic configuration – single stream without dilution
One analyzer + one fast loop reservoir (polycarbonate)



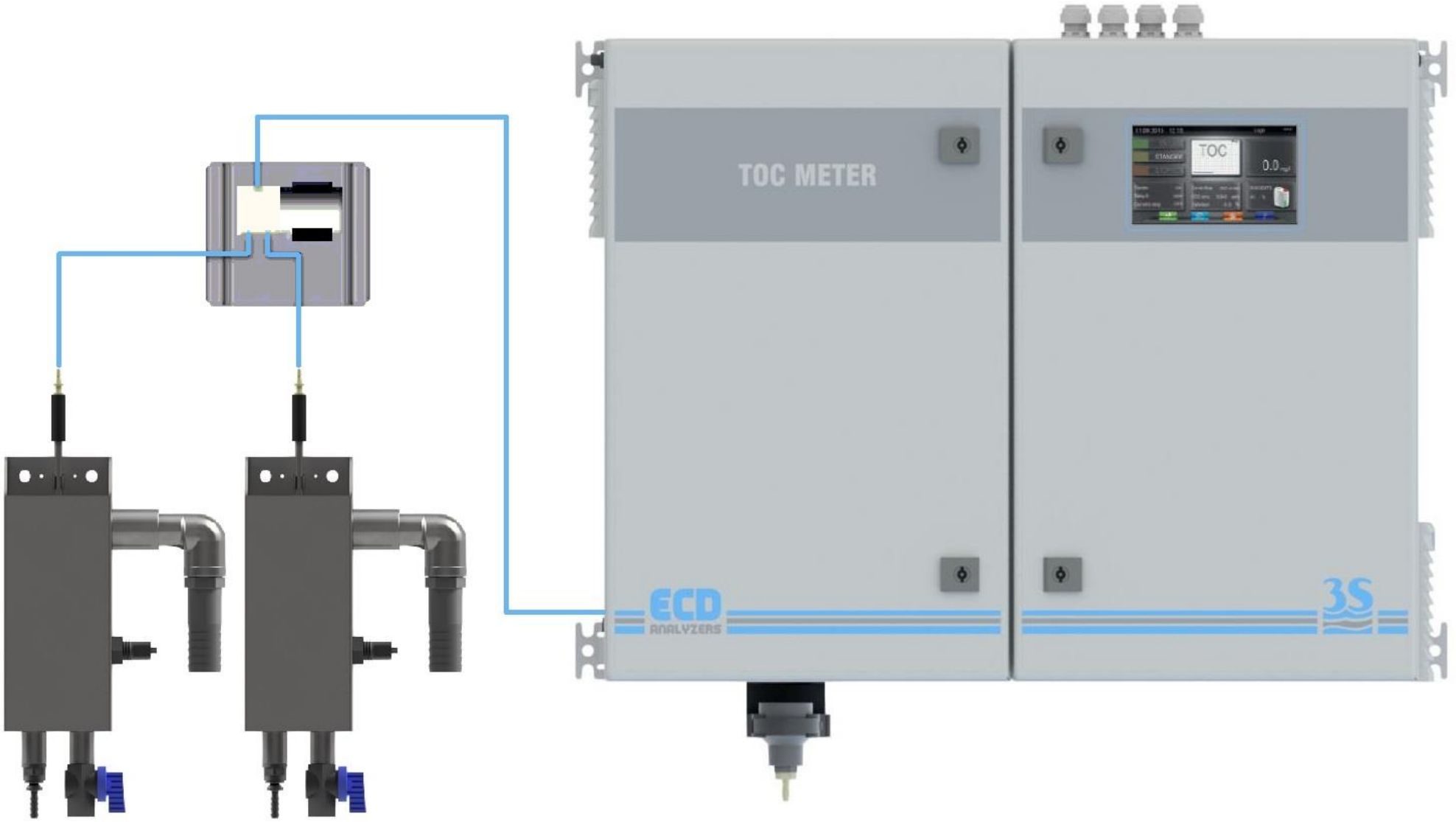
TOC – Basic configuration – single stream without dilution
One analyzer + one fast loop reservoir (SS)



TOC – Dual stream configuration without dilution
One analyzer + dual stream valve + 2 fast loop reservoir (PC)



TOC – Dual stream configuration without dilution
One analyzer + dual stream valve + 2 fast loop reservoir (SS)



TOC – Loss of sample / dilution water

The analyzer needs to react in case of loss of sample in the incoming sample line / dilution water reservoirs.

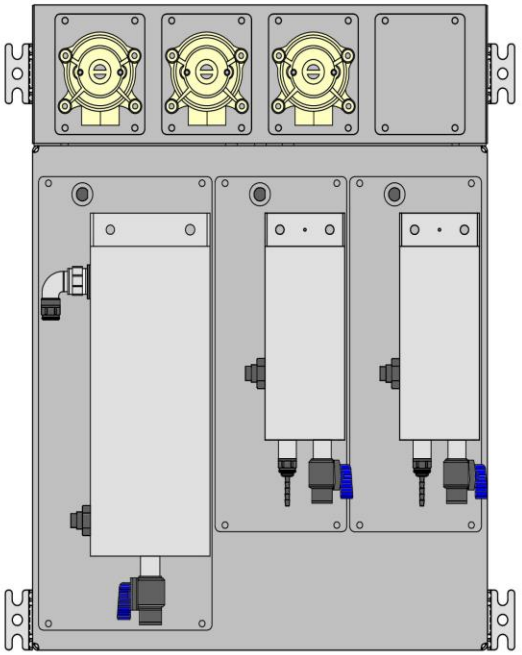
The external reservoir features a floating level sensor. If loss of sample / dilution water is sensed for more than xxx seconds (programmable on the analyzer), the analyzer switches to stand-by mode, and waits for the sample / dilution water to return, after which the analyzer restarts automatically the analysis cycle.

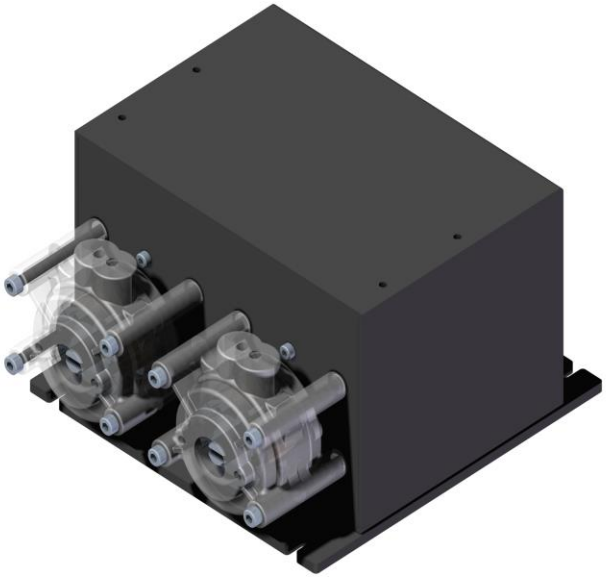
Flow rate to FLR - 80-500 cc/min

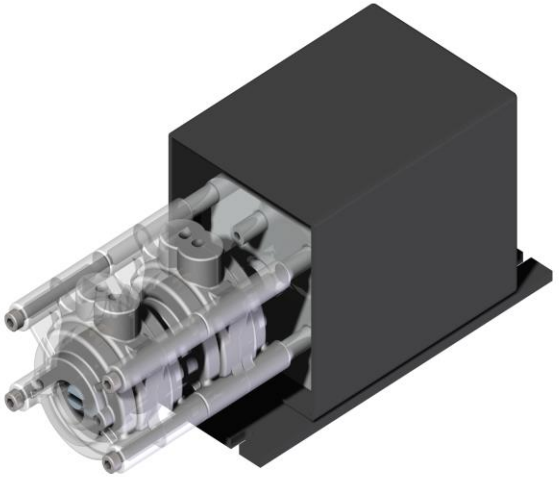
Connection fittings to FLR

- Inlet 6 mm (1/4-in.) ext., Outlet 12 mm (1/2-in.) ext.

TOC – Extending the range - dilution







When should I use a diluter?

Diluters extend the range up to 20,000 mg/L TOC

Samples having high chlorides

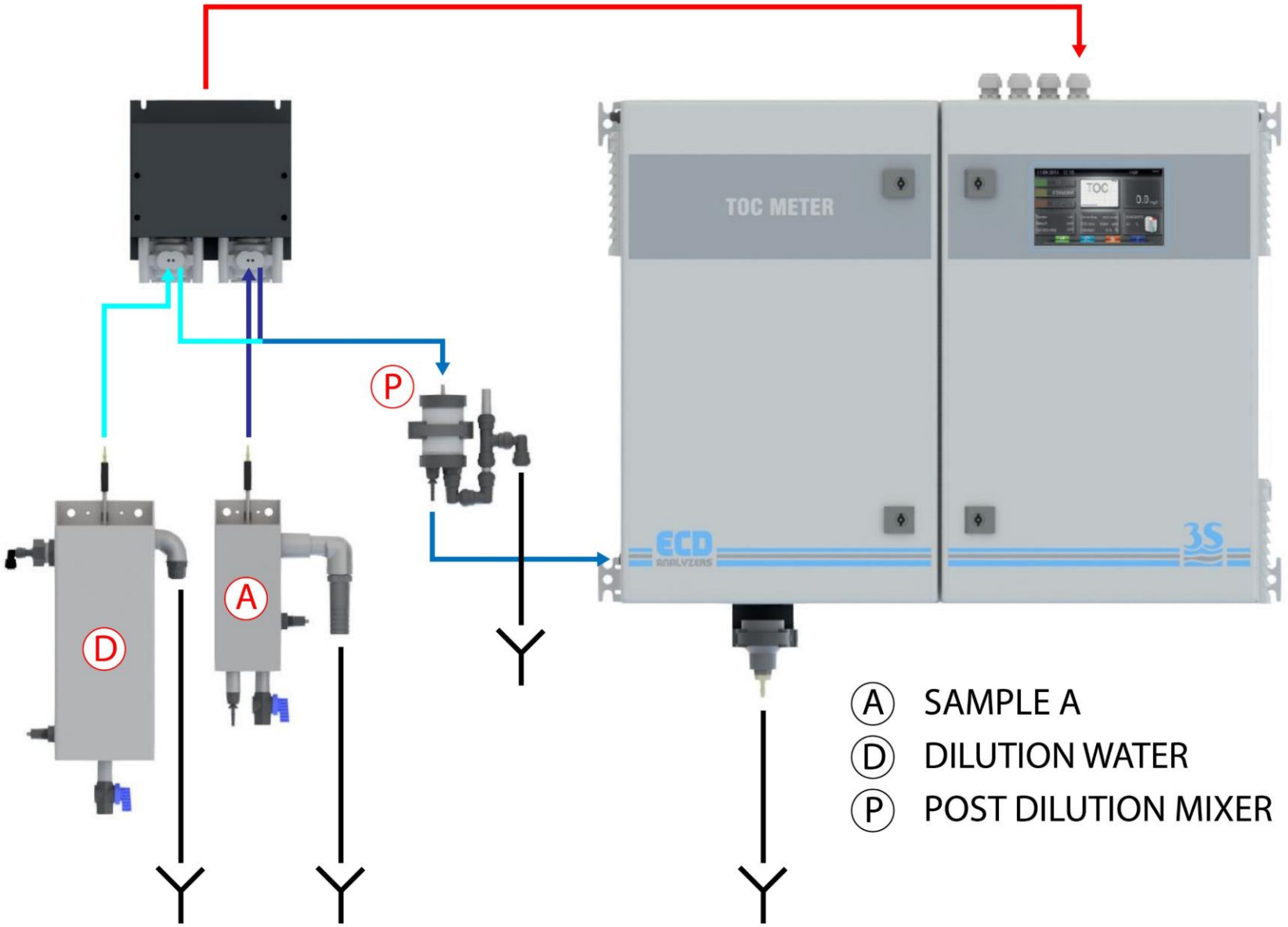
Lower range with higher dilution = faster response

Bigger tubing size on resample pump

For a sample range of 0-2000 mg/L

0-100 mg/L with 20x dilution is better than 0-500 mg/L with 4x dilution

TOC – Single stream with external dilution



TOC with External carrier gas (N_2 or CO_2 free air)

What's different?

No internal compressors

Two regulators for controlling gas flow

Why?

Better performance at low range

Comparable with certain competitor's offer

e.g. Old Hach 1950 plus, Astro, E+H EZTOC,...

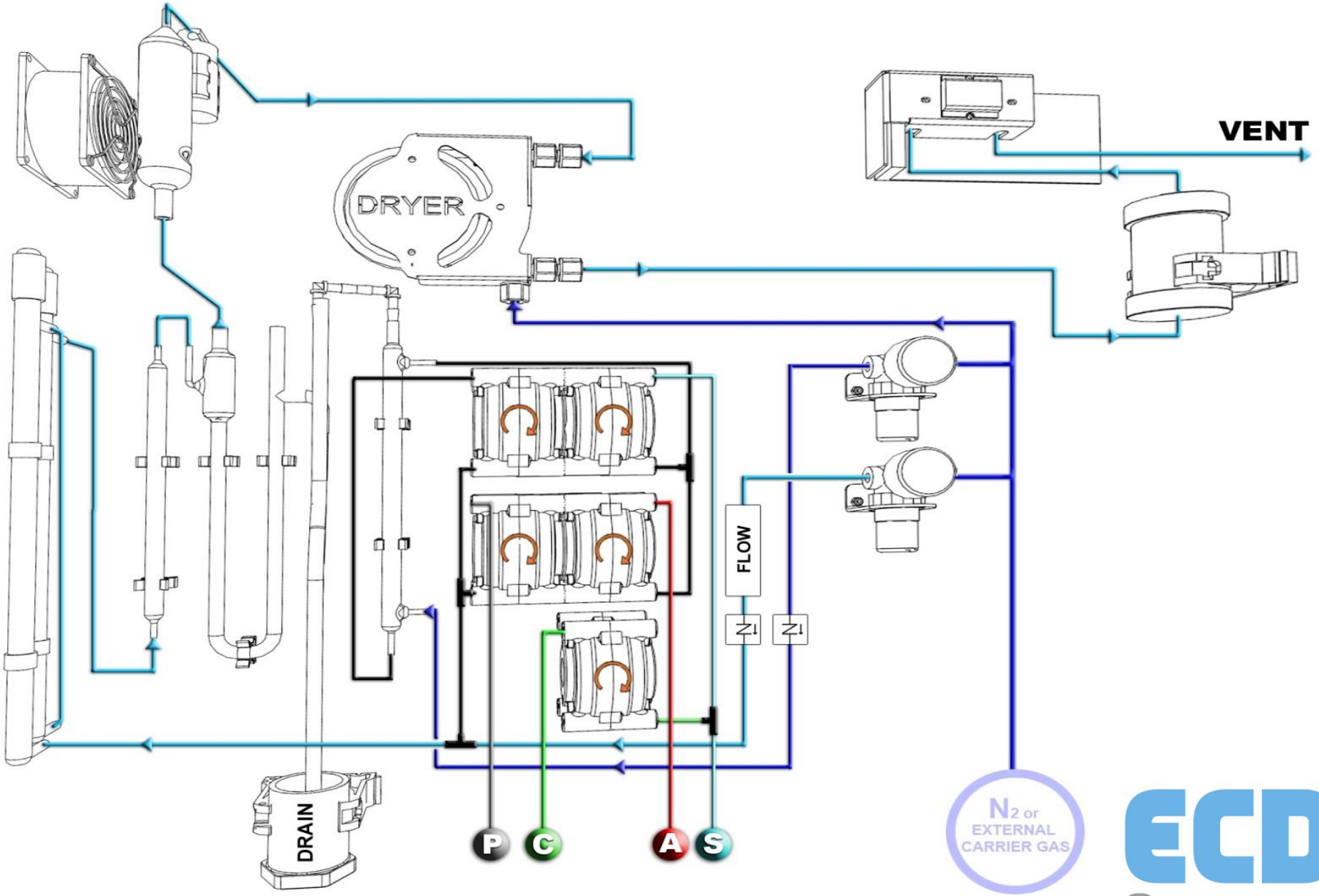
Where to use?

Low range applications

Replacement of existing installations with external gas source available

ECD ANALYZERS

EXTERNAL CARRIER GAS - FLOW DIAGRAM



TOC - Total Carbon configuration

What's different?

No acidification and sparging

Mixed acid and persulfate reagent used (1 reagent)

Why?

Faster response

Higher maximum range without dilution – 1000 mg/L C

Where to use?

Where fast response is requested

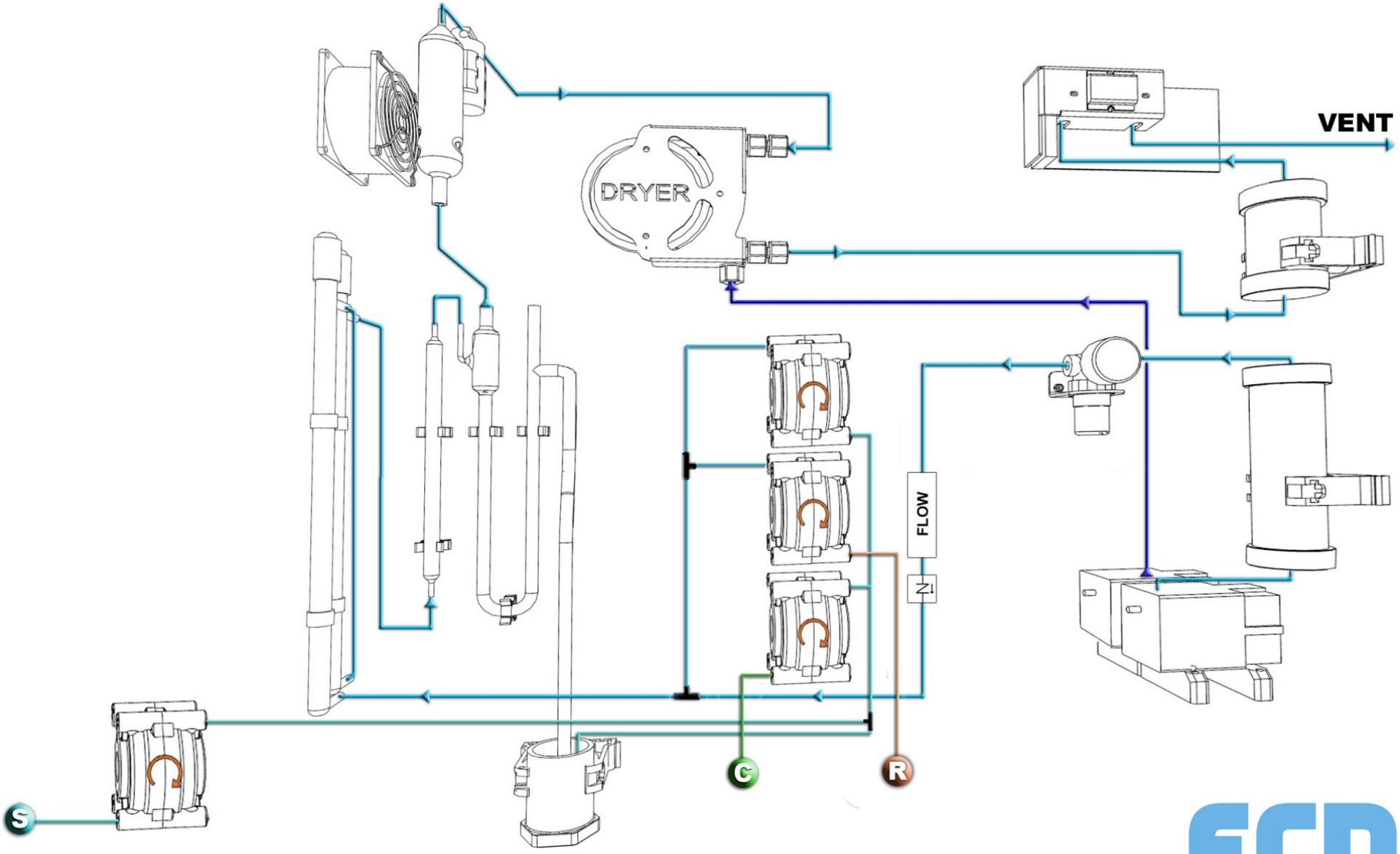
Avoid dilution on high concentration samples

Where TIC is negligible – e.g. Condensates, high range values,...

Important - if dilution water used then it must be DI or demi water (no tap water)

ECD Analyzers

TC FLOW DIAGRAM



ECD ANALYZERS

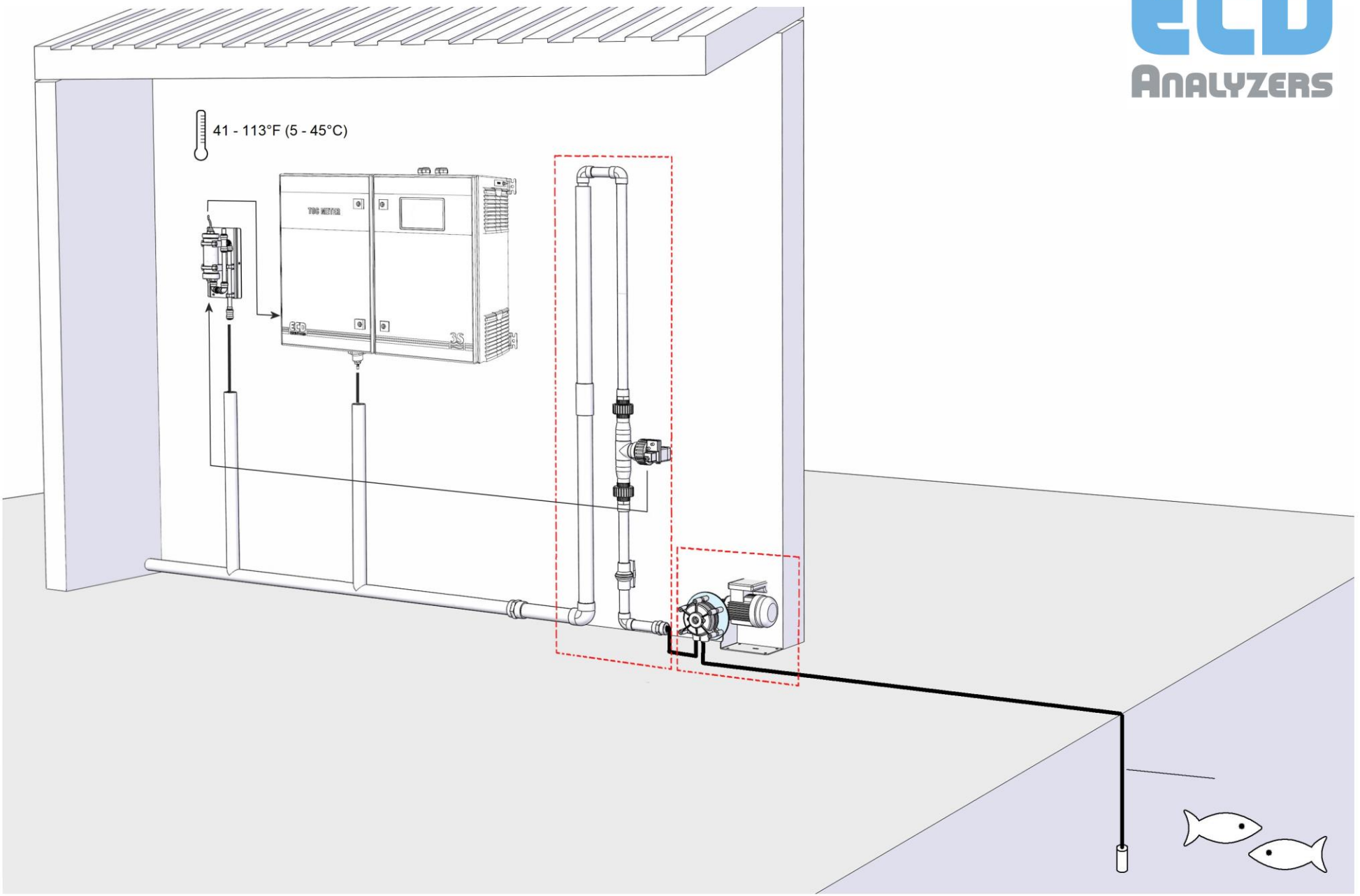
TOC – Analyzer selection

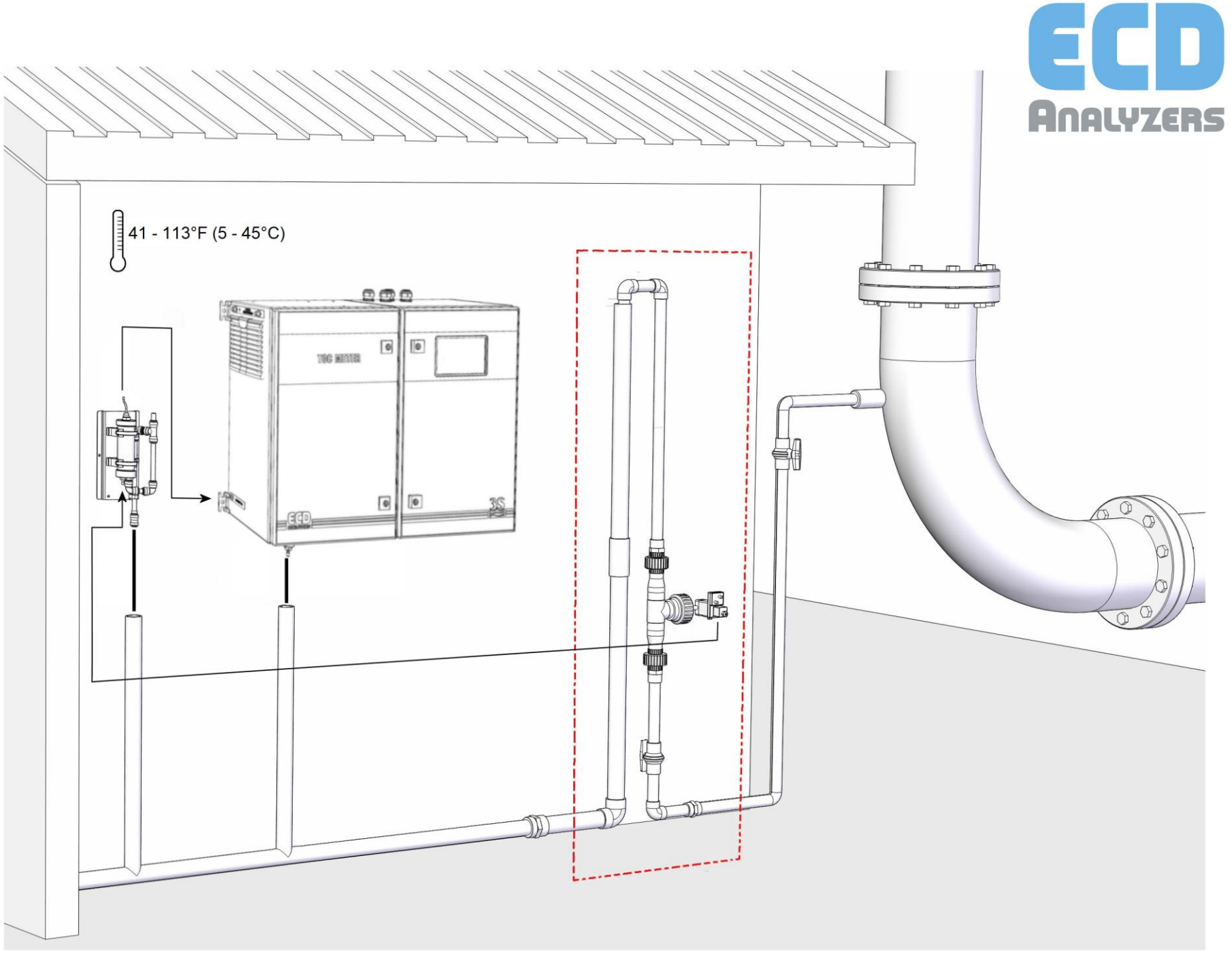
- power supply (110V or 220V)
- n° of channels (1=single stream or 2=dual stream)
- n° of reagents (1R, 2R or 3R reagents)
- range of the TOC without dilution

if high range dilution and accessories for dilution

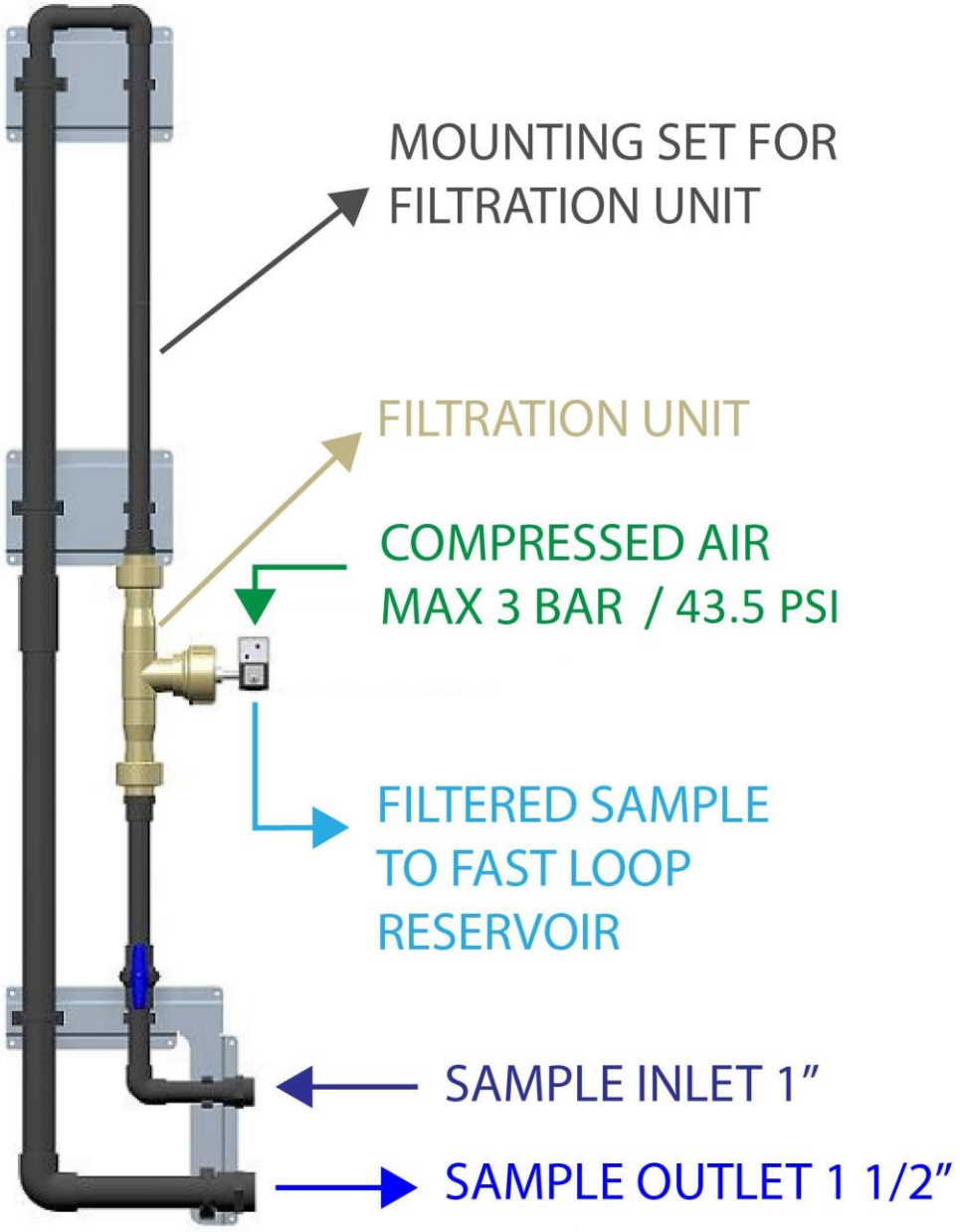
- special configuration (TC) / nitrogen or external CO2 free carrier gas (N)

ECD ANALYZERS


41 - 113°F (5 - 45°C)

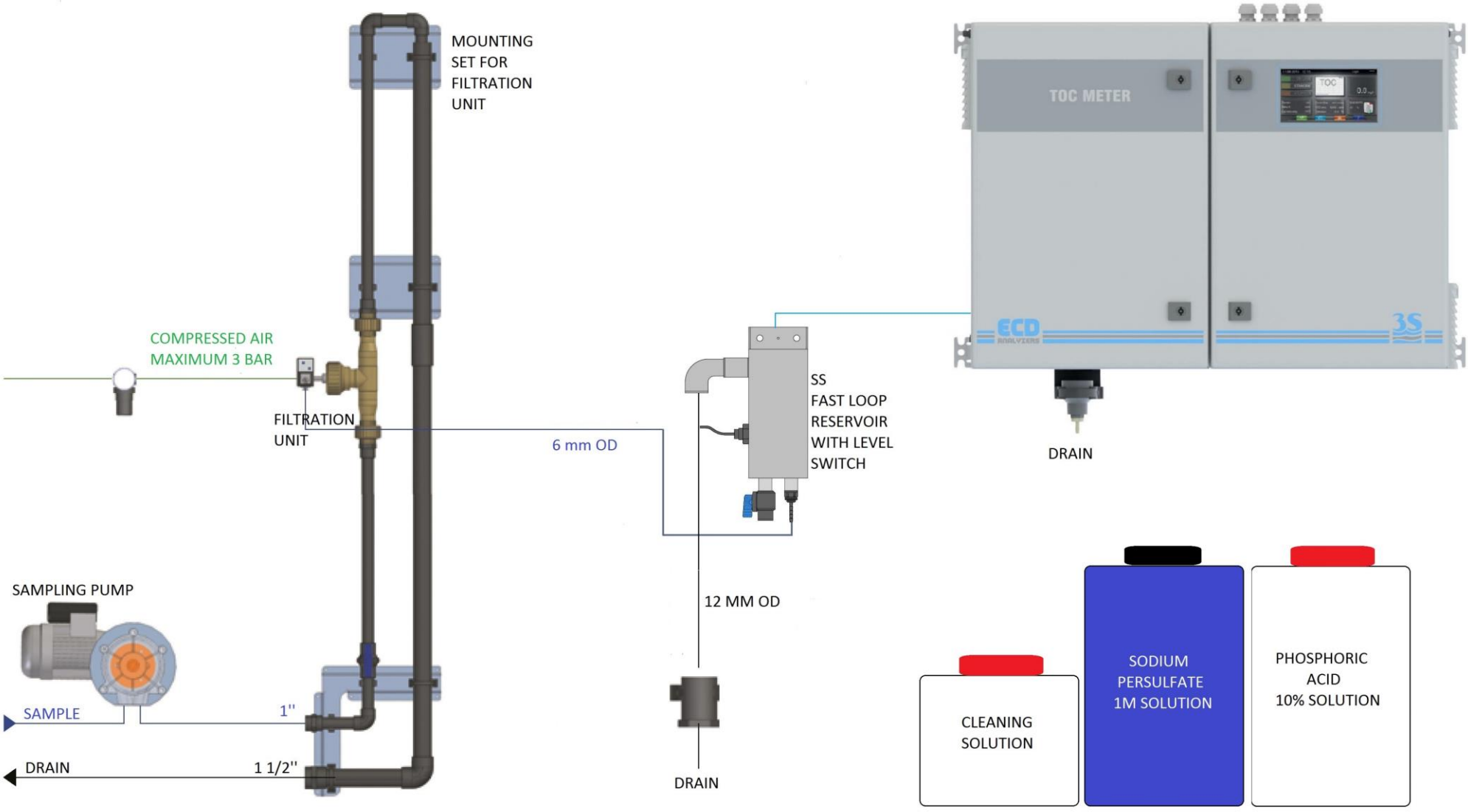

41 - 113°F (5 - 45°C)
TOC METER
ECD
3S

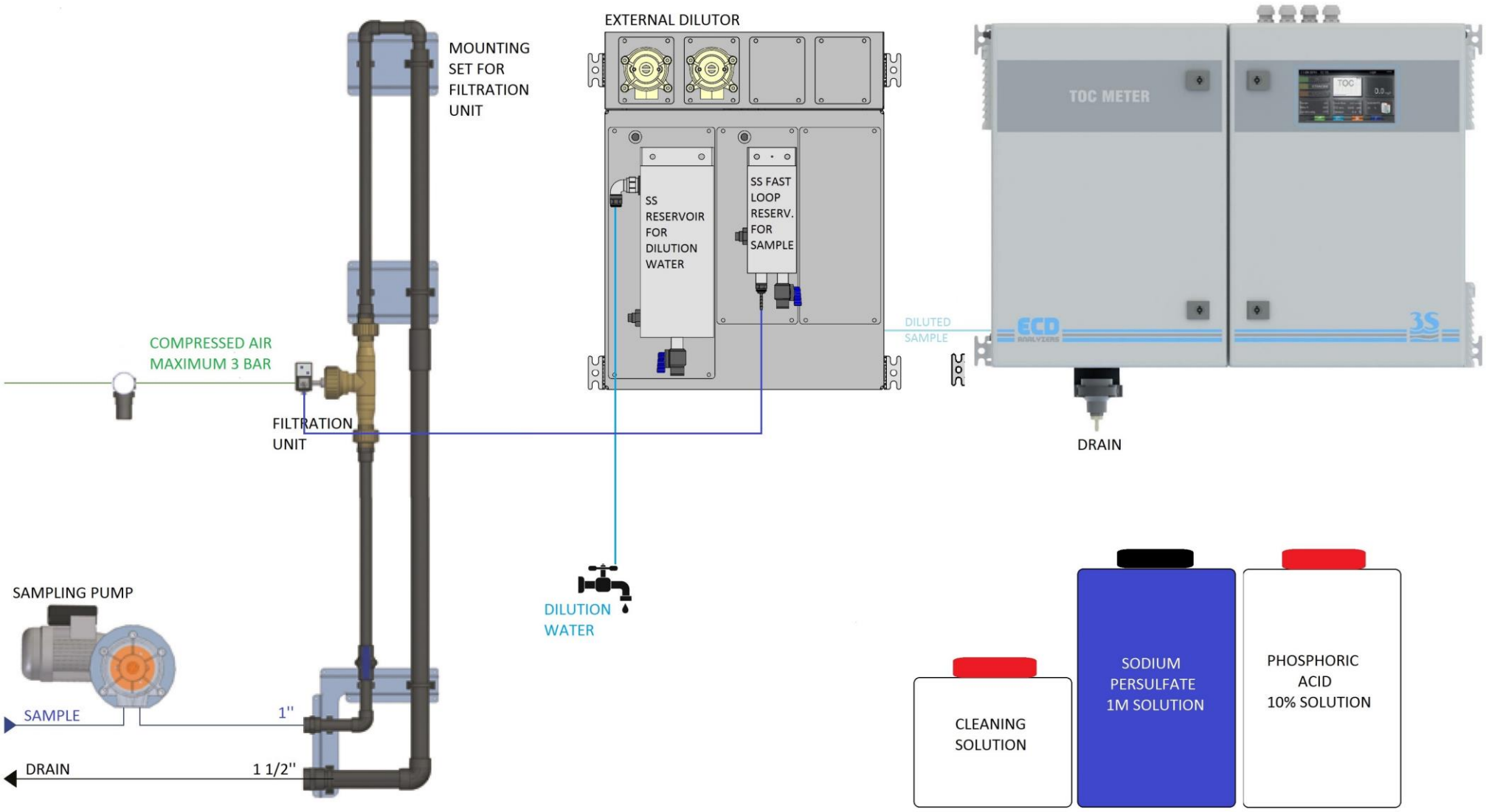
TOC – Accessories



- Sampling Pump
- Filtration Unit
- External reservoirs / tanks
- Dilutors

ECD Analyzers


MOUNTING
SET FOR
FILTRATION
UNIT
COMPRESSED AIR
MAXIMUM 3 BAR
FILTRATION
UNIT
6 mm OD
SS
FAST LOOP
RESERVOIR
WITH LEVEL
SWITCH
TOC METER
DRAIN
SAMPLING PUMP
SAMPLE
1''
DRAIN
1 1/2''
12 MM OD
DRAIN
CLEANING
SOLUTION
SODIUM
PERSULFATE
1M SOLUTION
PHOSPHORIC
ACID
10% SOLUTION


MOUNTING SET FOR FILTRATION UNIT
EXTERNAL DILUTOR
SS RESERVOIR FOR DILUTION WATER
SS FAST LOOP RESERV. FOR SAMPLE
TOC METER
DILUTED SAMPLE
DRAIN
COMPRESSED AIR MAXIMUM 3 BAR
FILTRATION UNIT
SAMPLING PUMP
DILUTION WATER
SAMPLE
1''
DRAIN
1 1/2''
CLEANING SOLUTION
SODIUM PERSULFATE 1M SOLUTION
PHOSPHORIC ACID 10% SOLUTION