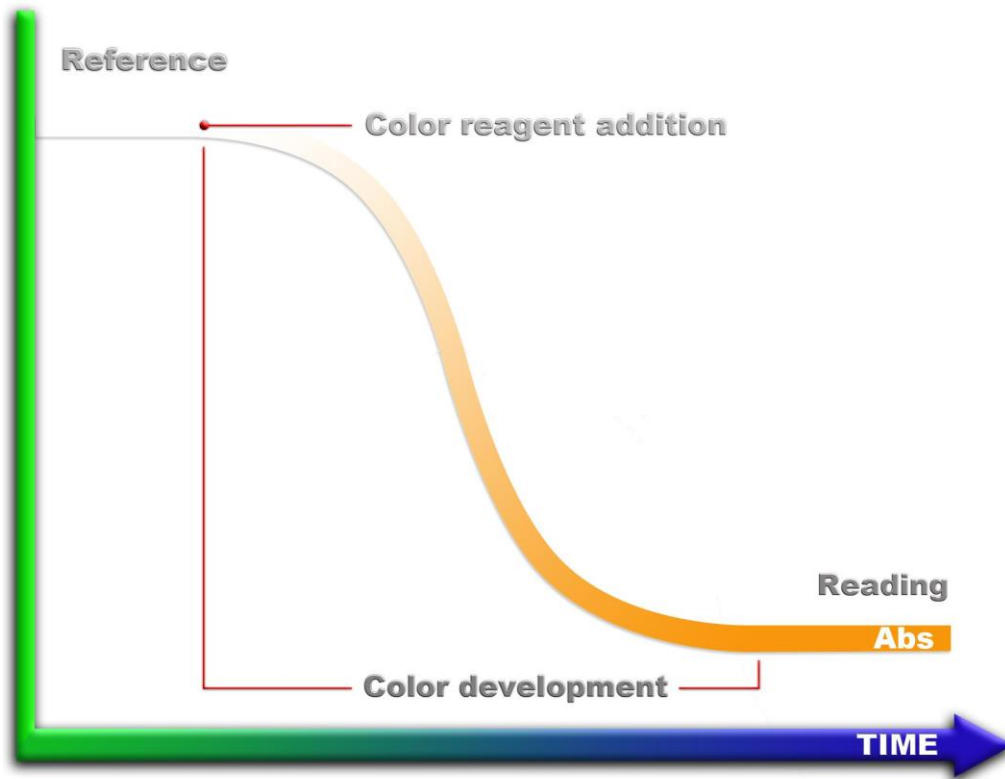
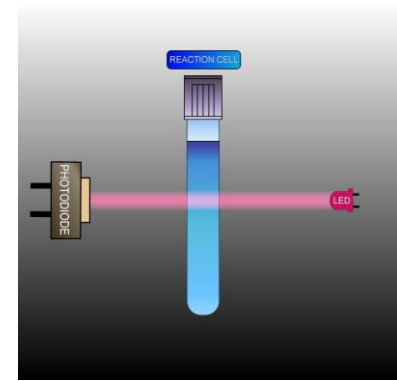




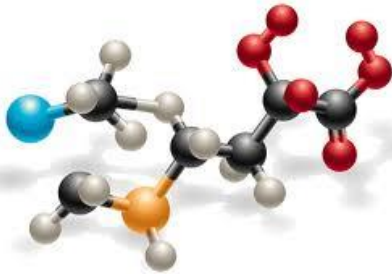
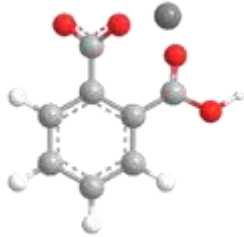
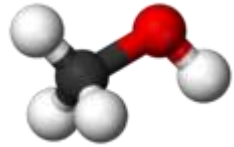
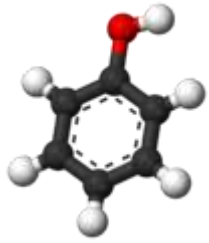
Analysis method: differential photometric absorbance

CA6 colorimetric analyzer makes two measurements during an analysis cycle:

- the first step is the measurement of the raw sample and allow to compensate the colour and the turbidity



- the second step is the measurement of the sample after reagent addition and reaction time. The concentration is measured with the absorbance calculated with the difference between the two measurements and with the stored calibration parameters.



PARAMETERS :

- ALUMINIUM (Eriochrome & Pyrocatechol)
- AMMONIA (Indophenol & Salicylate)
- BROMATE (Azomethine H)
- CHLORINE / TOTAL CHLORINE (DPD)
- CHLORIDE (Mercuric Thiocyanate)
- CHROMIUM VI (Diphenylcarbazide)
- COPPER (Bathocuproine)
- CYANIDE (Chloramine-T)
- HARDNESS (O-cresolphthalein complexone)
- HYDRAZINE (p-dimethylaminobenzaldehyde)
- IRON / TOTAL IRON (TPTZ & Ferrozine & Phenantroline)
- MANGANESE (PAN, LMG)
- MONOCHLORAMINE (DPD)
- NICKEL (Dimethylglyoxime)
- NITRITE (Diazotisation)
- PHENOL (4-aminoantipyrine)
- PHOSPHATE (Blue molybdate & yellow vanadomolybdate)
- SILICA (Blue molybdate)
- SULPHATE (Turbidimetric barium chloride)
- TP (Oxydation + blue or yellow)
- ZINC (Zincon)

ANY COLOR LABORATORY
METHOD WITH UP
TO FOUR REAGENTS

Technical features:

Generic Monitor

Flexibility and can programme to overcome any site or application problems.

Easy configuration - Modular design

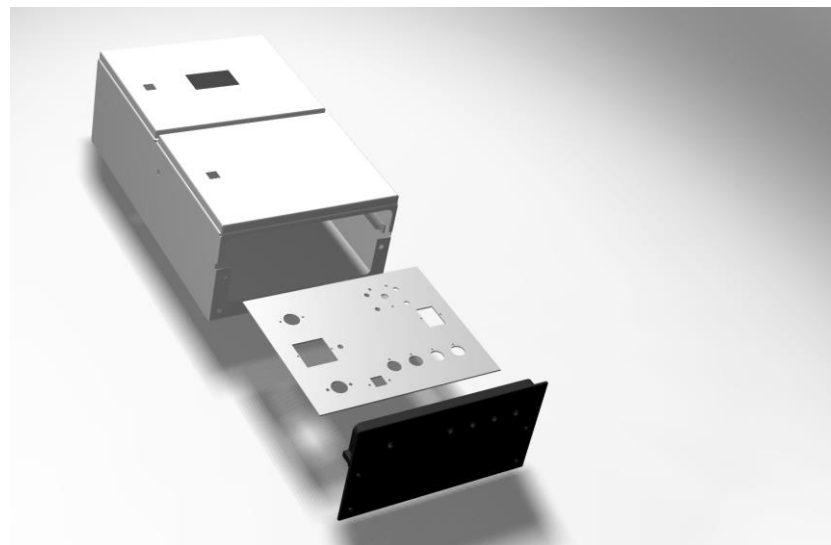
With our modular configuration we can automate your color laboratory method with up to four reagents.
30 steps fully programmable.

Flexible programming – can adjust to suit application extremes.

User can identify and watch the individual steps of the process as colour development is visible to the user ie no black box), makes problem diagnosis much quicker and engineer call out less likely.

Easy to re-configure to use for another parameter Cost effective for adaptation in the future for changes in application or parameter.

User can have access to all program parameters and check each method step individually for correct operation if desired.
Low and easy parameter swapping capability (eg, Aluminium to Iron)



Program analysis operations # 1		
1	2	wait
2	2	rinse #1
3	2	wait
4	2	add reag #1
5	2	wait

NEXT

Technical features:

Dual compartment enclosure

To ensure complete separation between electronics and hydraulics.

Touchscreen interface

Simple and user friendly menus and functions.

Internal datalogger with USB data download. Review historical data.

Separate waste line for sample containing reagents

Low volumes for contaminated waste – save labour for disposal.

Long autonomy, low maintenance, low operating cost

Rugged and reliable

Designed for industrial and environmental on-line applications, ensures the highest level of robustness in the electronics, mechanics and hydraulics components.

Low routine service parts required – Low running costs – increased reliability.

Easy installation and operation

To start measurement is enough to power the analyzer and connect reagents, sample and waste line.

Sample reservoir with sample flow fail alarm

Stops false alarms due to sample failure.

Low reagent level alarm

Reagent count down for low level – Stops false alarms due to reagent running out.

Total P - P/PO4	service *	11:44	
RUN	DISPLAY	PROGRAM	?
1	Tot.P	0.0	ppb
2	P/PO4	0.0	ppb
wait			
Reag.1 99%	Reag.2 99%	Reag.3 100%	Reag.4 100%

time	date	result #1	result #2	reference	abs
09:48	17/04/15	0.0	0.0	0.0000	0.0000
09:48	17/04/15	0.0	0.0	0.0000	0.0000
09:48	17/04/15	0.0	0.0	0.0000	0.0000
09:48	17/04/15	0.0	0.0	0.0000	0.0000
09:48	17/04/15	0.0	0.0	0.0000	0.0000
09:48	17/04/15	0.0	0.0	0.0000	0.0000
09:47	17/04/15	0.0	0.0	0.0000	0.0000
09:47	17/04/15	0.0	0.0	0.0000	0.0000
09:47	17/04/15	0.0	0.0	0.0000	0.0000
09:47	17/04/15	0.0	0.0	0.0000	0.0000

Technical features:

Heated Reaction Chamber Block

Low reagent volumes required plus fast and complete reaction process for higher precision and accuracy.

To enable cold samples to be measured very quickly and with minimal reagent consumption and better repeatability

LED Light Source

Lower cost, high accuracy and high reliability and stability.

Sample Dilution – High ranges possible.

Can perform high dilution with loop capture. Easy to add low cost dilution loop to extend range.

Reference

Adjusts optics for the effect of solids and background colour before analysis.

Reduced sample filtration and higher accuracy.

Optical system compensates for fouling and TSS + Colour.

Cell Cleaning

Post analysis acid (or other) addition post reaction for keeping reaction cell clean – greater reliability and less maintenance.

Reagent dosing pumps utilized – saves on maintenance time, costs and increases reliability.

Small reagent volumes – Environmentally friendly – Reduced running costs.

Optical path lengths 16mm or 26mm – increased accuracy dependent on range.

Option to change optical pathlength to optimise analyser to range required, extends analyser to accurate low end with good high range capability

Profibus DP option

CONFIGURATION OF THE ANALYZER

CELL DIAMETER: 16 mm or 26 mm

Lower range – bigger cell diameter

NUMBER OF REAGENTS PUMPS (up to four – depending on the parameter)

WAVELENGTH - depending on the parameter

SINGLE CHANNEL or DUAL CHANNEL - one parameter 2 streams

DILUTION MODULE

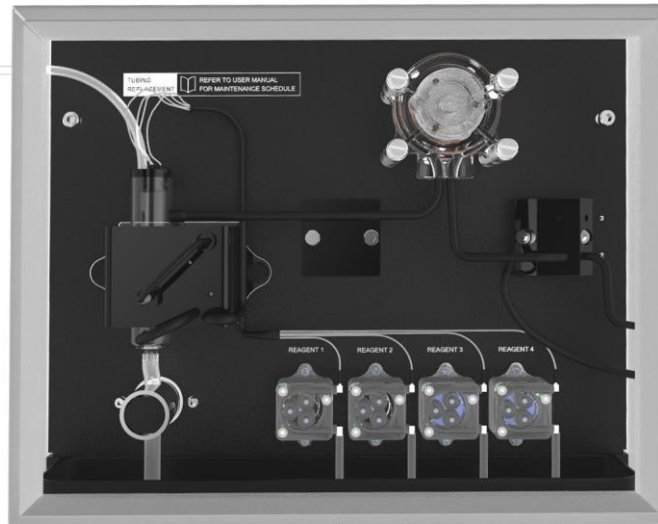
OXYDATION MODULE

Reaction cell

In order to change from bigger to smaller cell only an adapter is needed

One cell block for all configurations

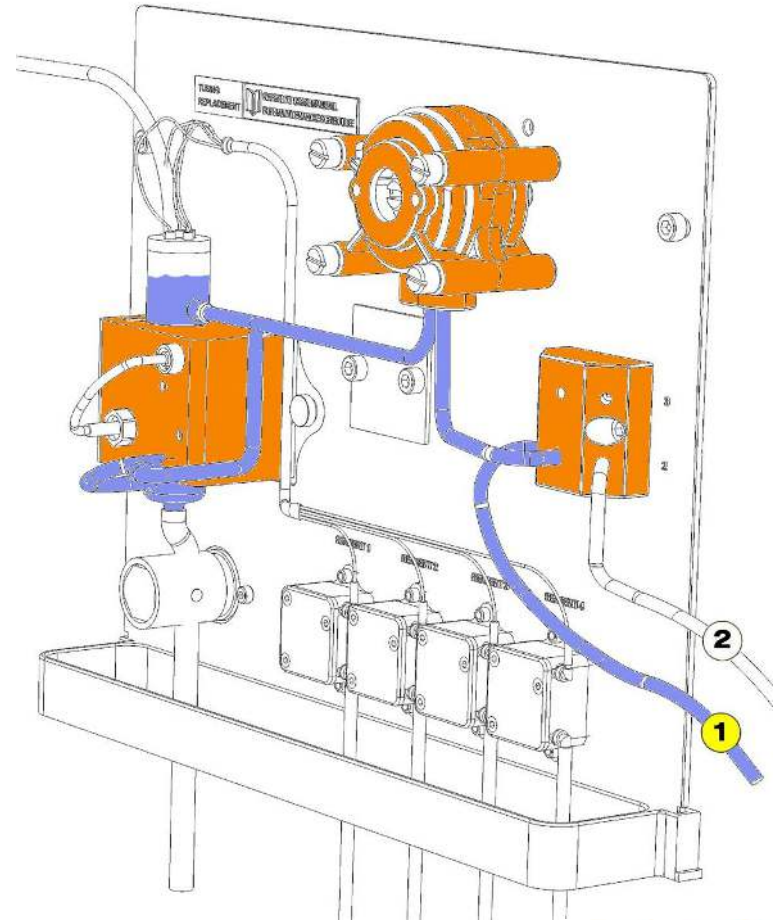




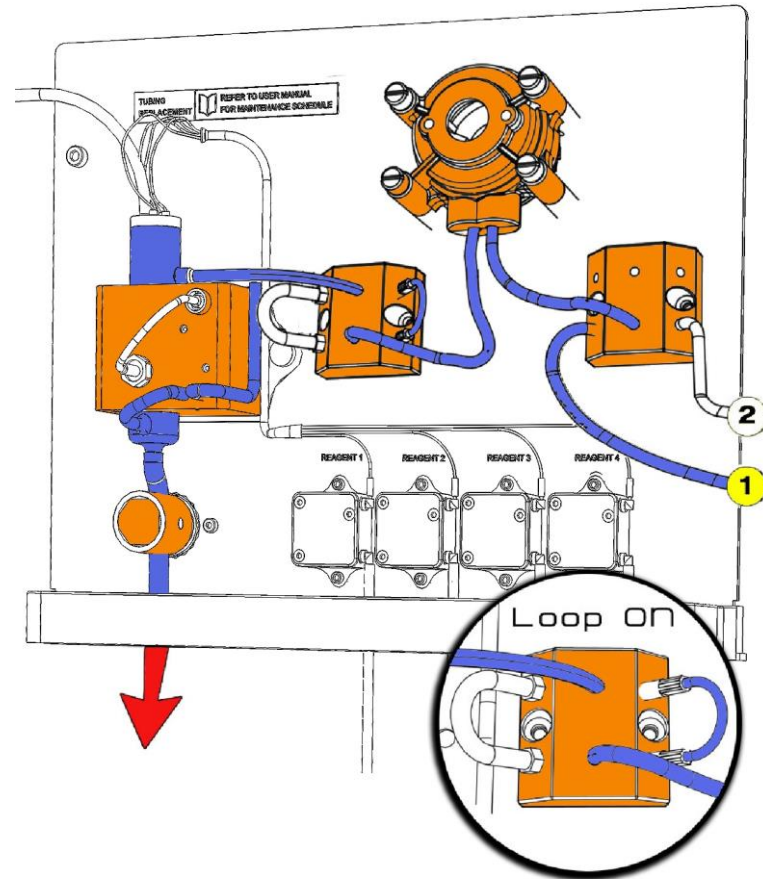
NUMBER OF REAGENTS PUMPS

SINGLE CHANNEL or DUAL CHANNEL

- #1 = sample 1
- #2 = sample 2 (if dual channel)
- #3 = auto function

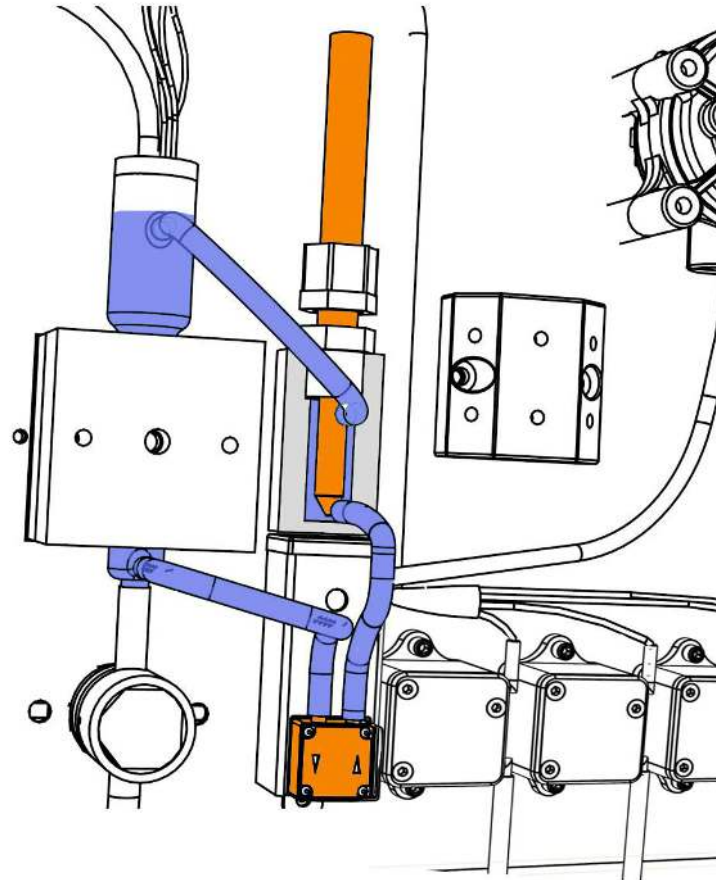


INTERNAL DILUTION MODULE



OXYDATION MODULE

Oxidation



HMI

Touchscreen with USB



Results Page 17/04/15 SAVE TO USB ERASE X

time	date	result #1	result #2	reference	abs
09:48	17/04/15	0.0	0.0	0.0000	0.0000
09:48	17/04/15	0.0	0.0	0.0000	0.0000
09:48	17/04/15	0.0	0.0	0.0000	0.0000
09:48	17/04/15	0.0	0.0	0.0000	0.0000
09:48	17/04/15	0.0	0.0	0.0000	0.0000
09:48	17/04/15	0.0	0.0	0.0000	0.0000
09:48	17/04/15	0.0	0.0	0.0000	0.0000
09:48	17/04/15	0.0	0.0	0.0000	0.0000
09:47	17/04/15	0.0	0.0	0.0000	0.0000
09:47	17/04/15	0.0	0.0	0.0000	0.0000
09:47	17/04/15	0.0	0.0	0.0000	0.0000
09:47	17/04/15	0.0	0.0	0.0000	0.0000
09:47	17/04/15	0.0	0.0	0.0000	0.0000



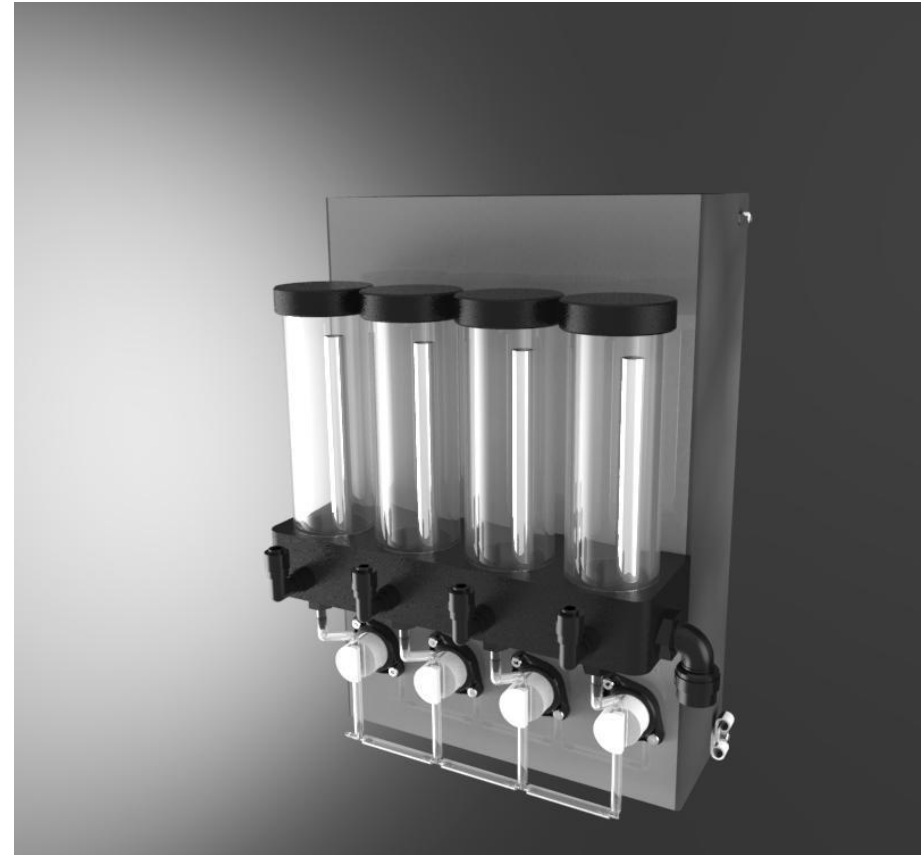
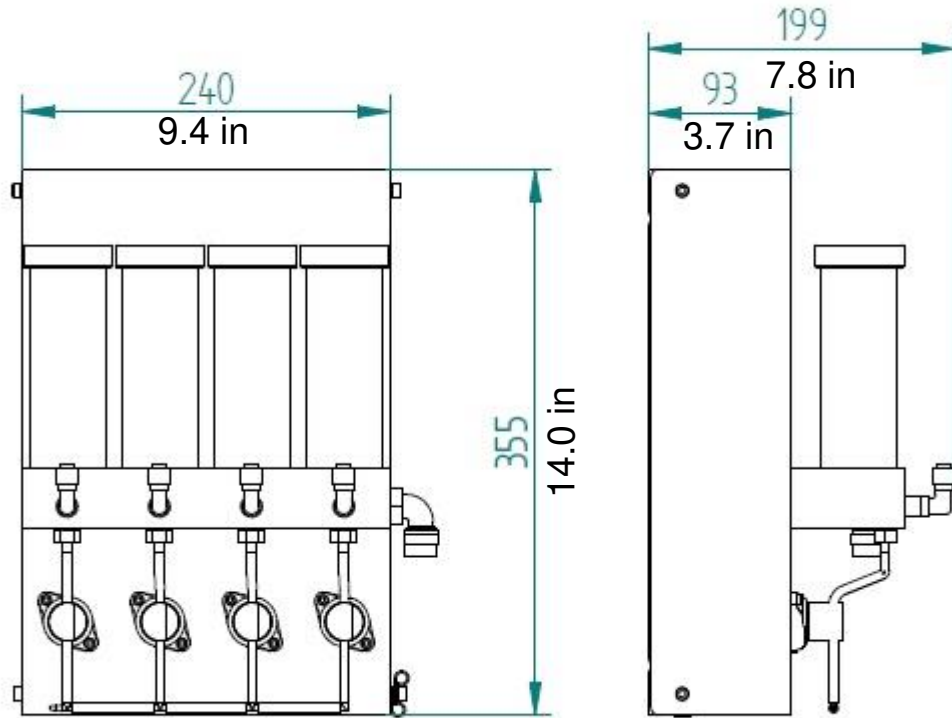
Data Download from datalogger

.csv files

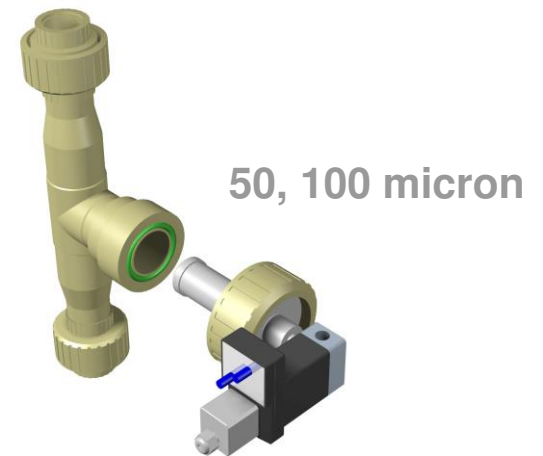
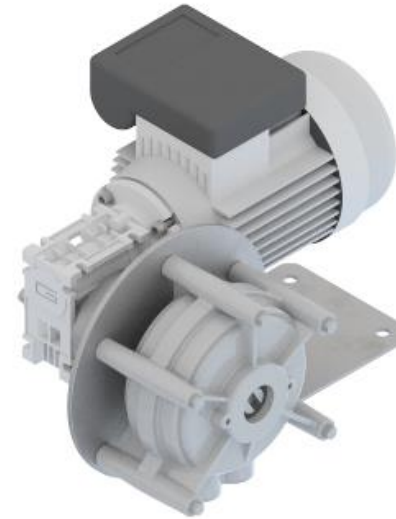
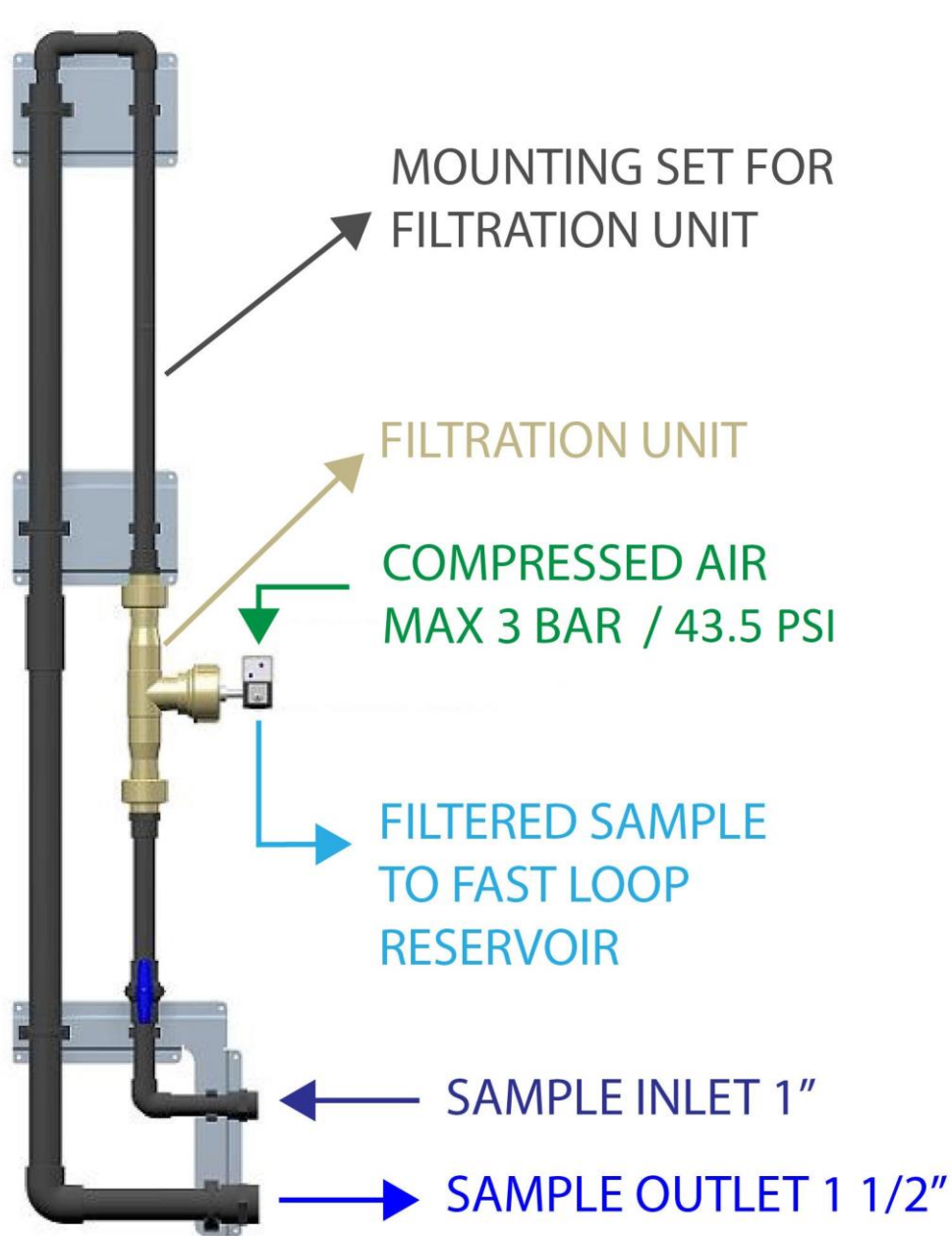
ACCESSORIES

- **SEQUENCER MULTISTREAM (up to 4 channels)**
- **FILTRATION UNIT**
- **MOUNTING SET FOR FILTRATION UNIT**
- **FAST LOOP RESERVOIR WITH LEVEL SWITCH**
- **DILUTION WATER RESERVOIR / TANK WITH LEVEL SWITCH**
- **FRIDGE FOR REAGENTS' BOTTLES**

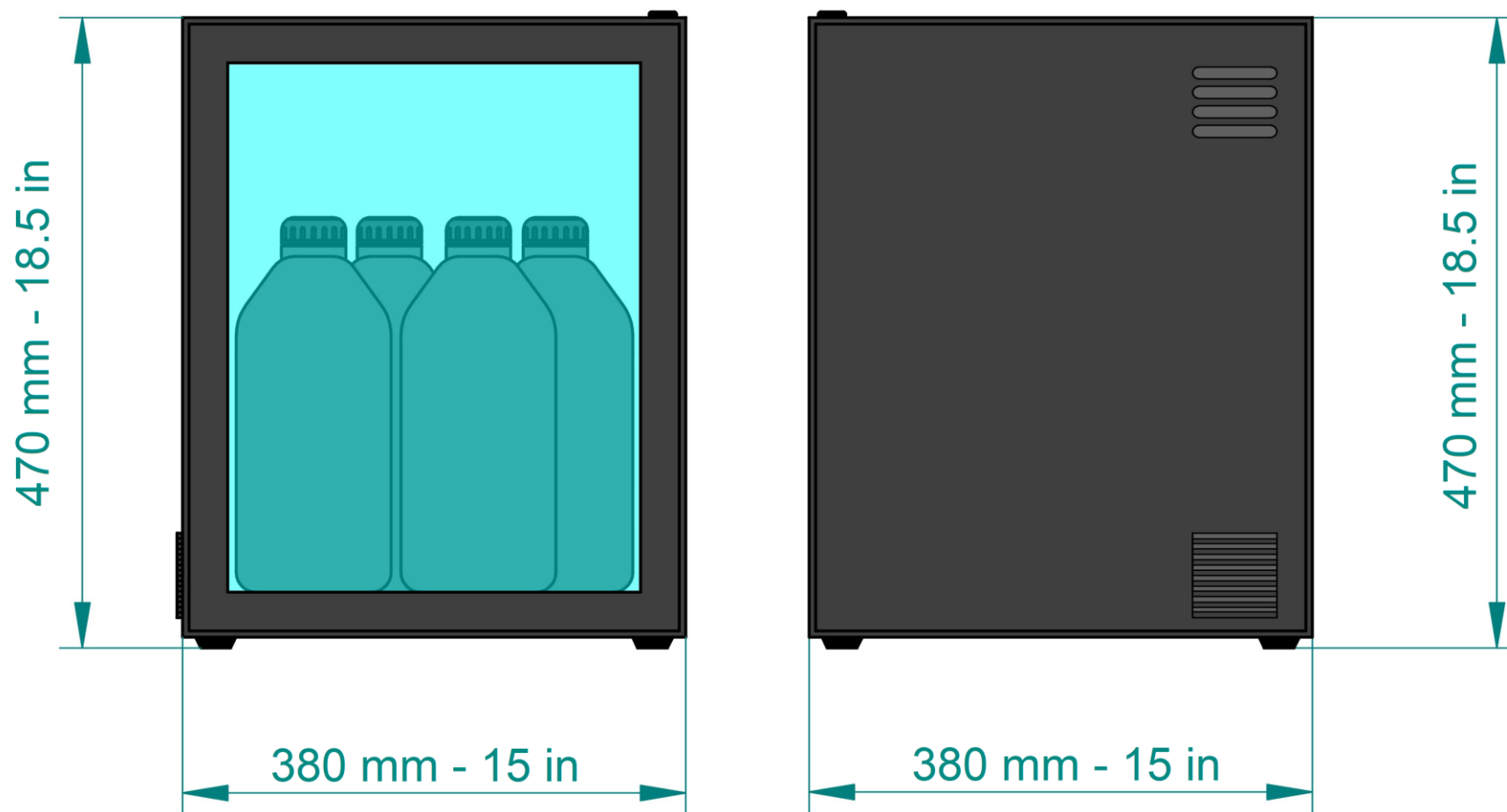
MULTISTREAM



SAMPLING PUMP & FILTRATION UNIT



FRIDG F



Maximum capacity 4x2L bottles

INSTALLATION

