

Mobile Lab

RED-OXY[®]



Instruction Manual

Summary and Breakthrough

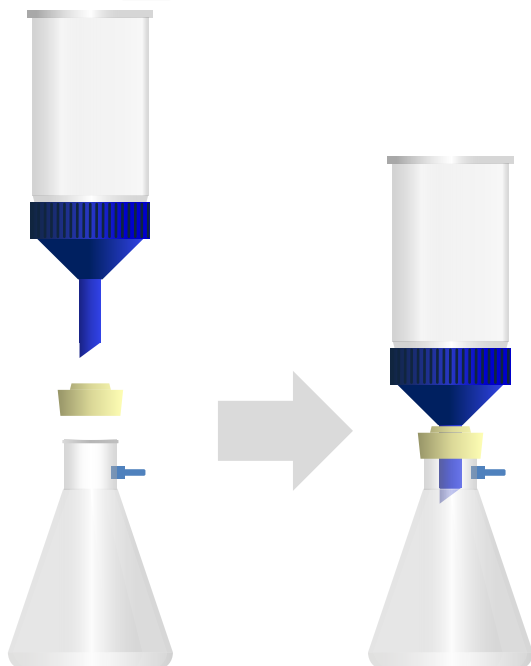
The invention of this mini **RED-OXY LAB** is to conduct a laboratory-scale investigation of the effectiveness of **RED-OXY** to eliminate ([see list of contaminants](#)) from any water or wastewater and to optimize the process with respect to efficiency, cost and

implementation. **RED-OXY LAB** summarizes the breakthrough experiments which can be carried out in the laboratory in your company or directly at the field. The final results of the contaminated water from any source can be discussed with your customer on the spot.

RED-OXY Mobile Lab consists of the followings

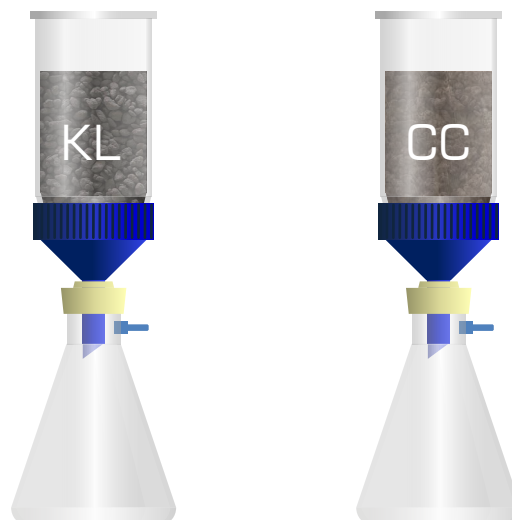
Article No	Description	Qty
399001006	RED-OXY LAB Box (40 L)	1
112472190	Filter head glass body	2
005800018	Filter plate with flow restrictor	2
005269437	Filter head Gaskets (O-Ring 83)	2
005269436	Filter head Gaskets (O-Ring 86)	2
112922190	Filter Head PP Funnel	2
ASA60N23603	Connection Adapter	2
6237708	Filter Flask (1000 ml)	2
0173076327	Plastic Mug (1000 ml)	1
0173076319	Dilution Bottles (250 ml, with Cap)	3
11001002	Plastic Syringes (50 ml)	6
3209150019	Plastic Spoon (10 ml)	3
0179251602	Funnel	3
3209049426	Sludge Removal Filter	10
0173076317	KL-Sample Bottle (with Cap)	1
0173076317	CC-Sample Bottle (with Cap)	1
010030009	Katalox-Light 1 liter bag	2
010001001	Catalytic Carbon 1 liter Bag	2
0030010190	RED ^x Granule (500 g)	1
0030010200	OXY ^x Granule (500 g)	1
0030010210	ADSORB ^x Granule (500 g)	1

1 Lab Assembly



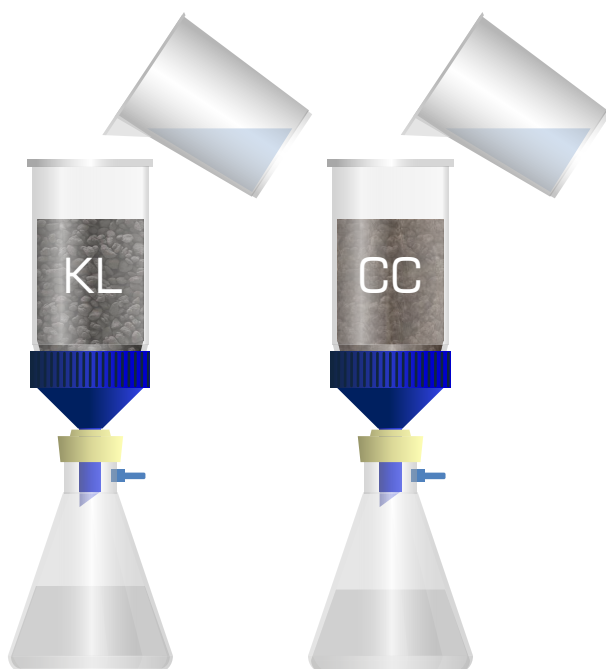
1. Assemble The Filter head to fit on the Filter Flask with the help of the Adapter. Prepare two sets one for Katalox-Light and one for Catalytic Carbon.

2 Media Loading



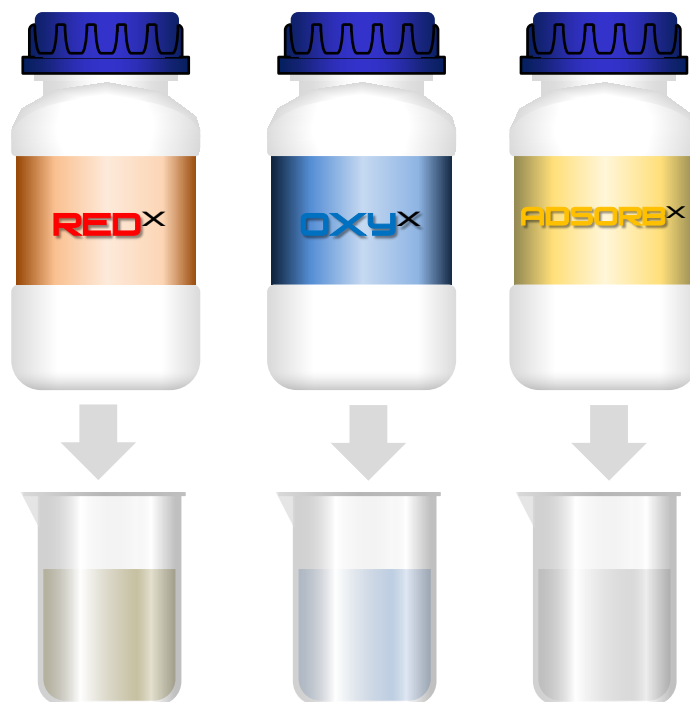
2. Put Katalox-Light and Catalytic Carbon from the respective 1 liter bag and pour the media in two filter set up

3 Media Washing



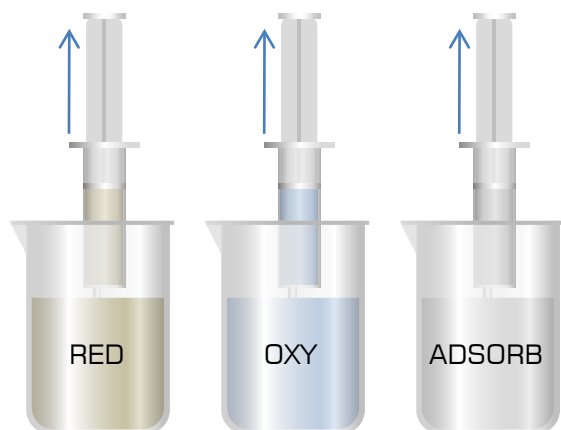
3. Pour one liter of clean water (with the mug) through both KL and CC media. Fines might be observed. Throw away the water collected in the filter flasks.

4 Dosing Solution



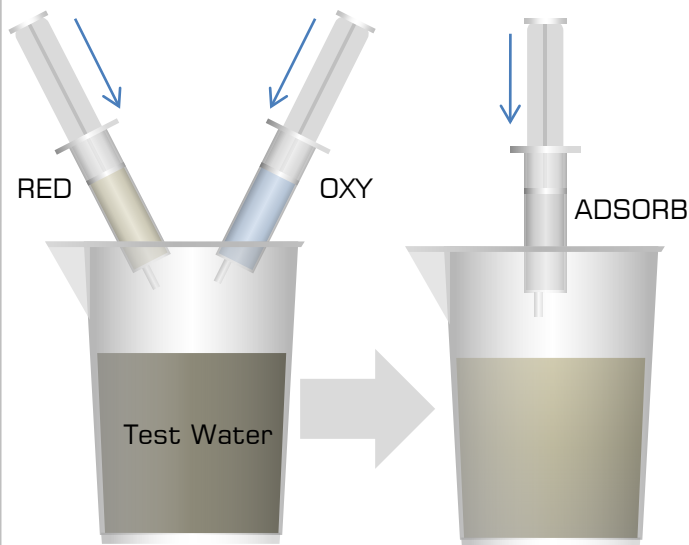
4. Prepare the dosing solution from the respective chemical diluting them in the water. Dilution strength is contaminants dependent. See **RED-OXY Part I** for more information.

5 Loading the chemicals for injecting



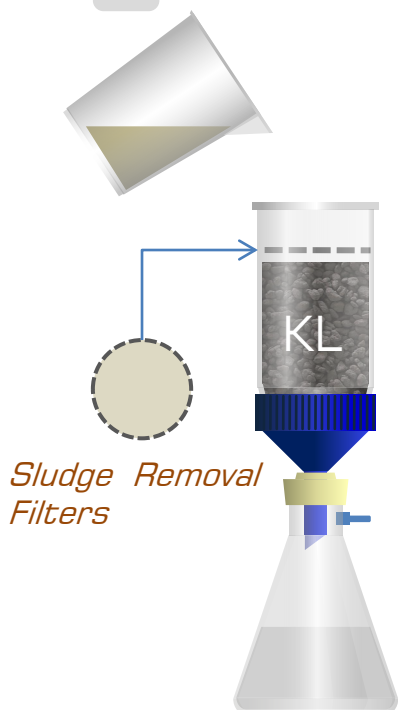
5. Load the prepared solution in the provided syringes. Make sure to use separate syringes for each chemical. The loading amount should be noted to realize the performance.

6 Inject chemicals in the raw water



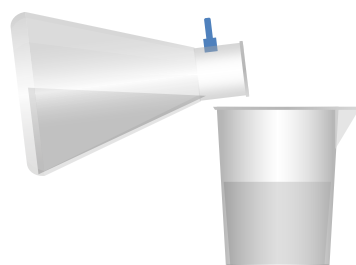
6. Put 1 liter of test water in the plastic mug and inject RED & OXY simultaneously with both hands. Stir the mixture for 1 minute. Add ADSORB to the mixture and stir for 1 minute. Leave the solution in rest for 10 minutes.

7 KL Filtration



7. Put a sludge-removal filter pad on the top of the KL Column and slowly pour the water through KL Filter Column and observe the appearance.

8 Prepare the KL-Sample Bottle



- 8.a. Clean up the plastic Mug and pour the water treated by KL column.



- 8.b. If the appearance is satisfactory put the water in the Sample bottle and close it with the cap to send for detailed water analysis.

Else, proceed to Catalytic Carbon Filtration (Step 9)

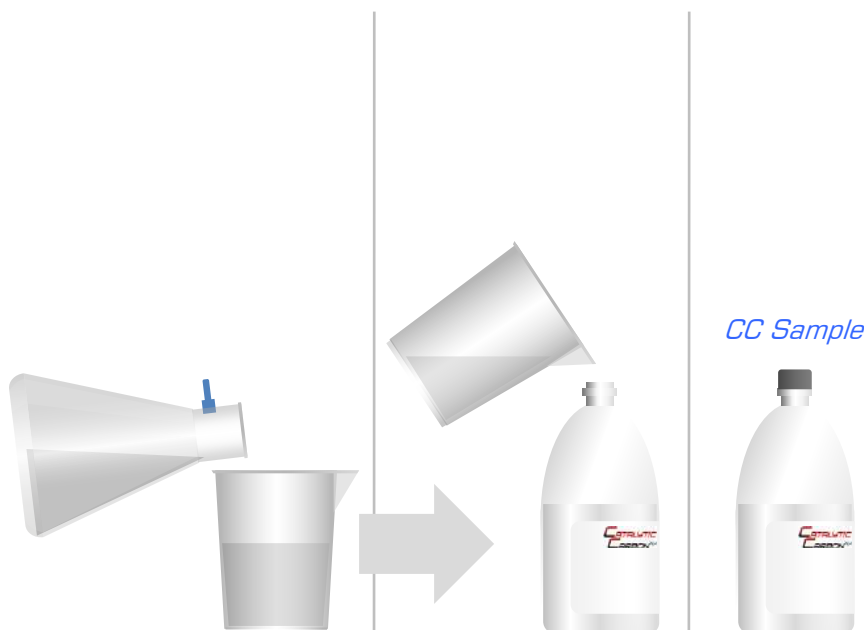
KL Sample

9 CC Filtration



9. Slowly pour the water through Catalytic Carbon Filter Column and observe the appearance.

10 Prepare the CC-Sample Bottle



- 10.a. Clean up the plastic Mug and pour the water treated by Catalytic Carbon column.

- 10.b. If the appearance is satisfactory put the water in the Sample bottle and close it with the cap to send for detailed water analysis.

If the appearance or results are not satisfactory one might need to adjust the chemical concentrations and repeat the test.

Our recommendations:

- The unused (if remains) diluted solution can be stored in the provided bottles.
- All the equipments must be thoroughly washed and clean
- It's best recommended to use a new packet of filter media (Katalox-Light and Catalytic Carbon) for each test.
- Used filter media is not recommended for re-use. It might affect the performance
- All the instructions are important and should be followed accordingly.
- Contact us when you may need spare parts, chemicals or filter media for your mobile lab. Please refer to the article numbers from the front page.

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