

Checklist for EASYZON

Chlorine dioxide system

Please send this completed record sheet to the following fax number or e-mail address:
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1. General item information					
1.1	Item	<i>New construction project</i>	<i>Existing building</i>		
1.2	Type of building	<i>Swimming Pool</i>	<i>Hospital</i>	<i>Sports Facility</i>	<i>Other:</i>
		<i>Workshop</i>	<i>Health Resort</i>	<i>Hotel</i>	
		<i>Camping Complex</i>	<i>Research Establishment</i>	<i>Residential Building</i>	
1.3	Item's address				
1.3.1	Item's Name				
1.3.2	Street				
1.3.3	Postcode / Town				
1.3.4	Phone / Fax	/			

2. Contacts						
2.1	Company					
2.2	Name					
2.3	Street					
2.4	Postcode / Town					
2.5	1. Contact partner	<i>Mr.</i>	<i>Mrs.</i>	2. Contact partner	<i>Mr.</i>	<i>Mrs.</i>
2.5.1	Phone / Fax	/		Phone / Fax	/	
2.5.3	E-Mail			E-Mail		
2.5.4	Department			Department		
2.5.5	Position			Position		
2.7	Lutz-Jesco contact partner	<i>Mr.</i>	<i>Mrs.</i>			
2.7.1	Phone / Fax	/				
2.7.3	Region					

3. Notes	

4. Water				
4.1	Type of water	<i>Warm drinking water</i>	<i>Cold drinking water</i>	<i>Other application:</i>

5. Water Consumption

5.1	Daily consumption	<i>[m³/d]</i>		
5.2	Peak volume flow rate	1)	<i>[m³/h], time/ duration from</i>	<i>to</i>
		2)	<i>[m³/h], time/ duration from</i>	<i>to</i>
		3)	<i>[m³/h], time/ duration from</i>	<i>to</i>
5.3	Operating time	<i>from</i>	<i>time, to</i>	<i>time</i>
5.4	Downtime	1) <i>from</i>	<i>time, to</i>	<i>time</i>
		2) <i>from</i>	<i>time, to</i>	<i>time</i>
5.4.1	Other downtimes	<i>(e.g. holidays or out of season)</i>		
5.5	Operating on weekends	<i>yes</i>	<i>no</i>	

6. Piping Data

6.1	Cold water	Warm water / circulation		
6.1.1	Total amount (Filling capacity)	<i>[m³]</i>	Total amount (Filling capacity)	<i>[m³]</i>
6.1.2	Max. permissible operating pressure for the injection nozzle	<i>[bar]</i>	Max. permissible operating pressure for the injection nozzle	<i>[bar]</i>
6.1.3	Piping material		Piping material	
6.2	Age of the unit (year of construction)			
6.3	Cold and warm water installation plans are available	<i>yes</i>	<i>no</i>	

7. Water Treatment (available?)

7.1	Softening unit	<i>yes</i>	<i>no</i>			
7.1.1	Unit type / Manufacturer	/				
7.2	Reverse osmosis unit	<i>yes</i>	<i>no</i>			
7.2.1	Manufacturer					
7.3	Filter					
7.3.1	Iron	<i>yes</i>	<i>no</i>	<i>If yes: can back flush</i>	<i>yes</i>	<i>no</i>
				<i>last filter change [month/year]:</i>	<i>last back flush [month/year]:</i>	
7.3.2	Manganese	<i>yes</i>	<i>no</i>	<i>If yes: can back flush</i>	<i>yes</i>	<i>no</i>
				<i>last filter change [month/year]:</i>	<i>last back flush [month/year]:</i>	
7.3.3	Nitrate	<i>yes</i>	<i>no</i>	<i>If yes: can back flush</i>	<i>yes</i>	<i>no</i>
				<i>last filter change [month/year]:</i>	<i>last back flush [month/year]:</i>	
7.3.4	Other	<i>yes</i>	<i>no</i>	<i>If yes: for</i>	<i>, can back flush</i>	<i>yes</i> <i>no</i>
				<i>last filter change [month/year]:</i>	<i>last back flush [month/year]:</i>	
7.4	Dosing unit	<i>yes</i>	<i>no</i>			
7.4.1	Unit type / Manufacturer	/				

8. Drinking water heating

8.1	Numbers of boilers			
8.2	Boiler sizes		<i>[m³]</i>	
8.3	Last cleaning of boilers		<i>[month/year]</i>	
8.4	Heating power		<i>[kWh]</i>	
8.5	Circulation backflow connection back to the boiler	<i>top</i>	<i>middle</i>	<i>down</i>
8.6	Connection of boilers	<i>parallel</i>	<i>serial</i>	
8.7	Water temperature TWw	<i>Boiler output:</i>	<i>[°C]</i>	
		<i>Circulation backflow:</i>	<i>[°C]</i>	

9. Water Parameters / Water Analysis

	<i>lt. Drinking water Standards</i>	<i>Measured values</i>	<i>General recommendations for ClO₂</i>
9.1	pH-value 6,5 - 9,5		4,0 - 10,0
9.2	Elec. conductivity [μ S/cm] < 2500		
9.3	Iron (Fe²⁺) [mg/l] < 0,2		< 0,1
9.4	Manganese (Mn²⁺) [mg/l] < 0,05		< 0,05
9.5	Nitrite (NO₂²⁻) [mg/l] < 0,5 *		< 0,1
9.6	Sulphide (S²⁻) [mg/l] <i>no limit</i>		< 0,1
9.7	Total hardness of the water [mmol/l] <i>no limit</i>		≥0,9
9.8	Carbonate hardness [mmol/l] <i>no limit</i>		≥0,9
9.9	TOC-value [mg/l] <i>no limit</i>		≤ 2,5
9.10	CSB-value [mg/l] <i>no limit</i>		≤10
9.11	Water analysis is available and is attached	<i>yes</i> <i>no</i>	
		<i>*) and [NO₃⁻/50 + NO₂⁻] < 1mg/l</i>	

10. Hygiene Parameters Water Disinfection

10.1	Microbiological analyses are available and are attached	<i>yes</i>	<i>no</i>
10.2	An analysis has been made to date	<i>yes</i>	<i>no</i>
10.3	A disinfectant is added by the water supplier agent	<i>yes</i>	<i>no</i>
10.3.1	Disinfectant / Concentration [mg/l]		/

11. On-site Installation Requirements

11.1	Specify the location of the injection nozzle	
11.1.1	Length of tube from injection nozzle to EASYZON unit	<i>[m]</i>

11.2	Existing threaded end (T-fitting) for the injection nozzle	yes	no
11.2.1	Thread size (default: R 1/2"), ACTUAL:		
11.3	Piping material around the injection nozzle (default: PVC-C), ACTUAL:		
11.4	Existing shut-off devices		
11.4.1	in front of the injection nozzle	yes	no
11.4.2	after the injection nozzle	yes	no
11.5	Existing water meters (or flow-measuring with signal output)	yes	no
11.5.1	Type of signal (default: Impulse (Reed contact)), ACTUAL:		
11.5.2	Signalfolge (default: Impulse/ ≤10 l), ACTUAL:		
11.6	Water supply		
11.6.1	Existing T-fittings with R 1/2" (default)	yes	no
11.6.2	Existing shut-off valves 1/2" (default)	yes	no
11.6.3	Pressure regulating valve at 1 bar 1/2" (default)	yes	no
11.7	Existing pipe separator (default)	yes	no
11.8	Sampling valve near the unit	yes	no
11.9	Distance up to the 1st tap connection		[m]

12. On-site Safety Guidelines

The following requirements lt. "BGV D5 German Accident Prevention & Insurance Directive" apply to the installation area of the production and dosing unit

12.1	lockable area is available (default)	yes	no
12.2	number of doors		
12.3	no constant presence of people (default)	yes	no
12.4	no unauthorised access	yes	no
12.5	surrounding temperature (default: 0 ...40 °C), ACTUAL:		[°C]
12.6	aeration/ventilation of the surrounding area is available (default)	yes	no
12.7	water connection (extraction valve) is available	yes	no
12.8	floor drainage with an anti-syphon trap is available	yes	no
12.9	the installation area is separated in a fire-proof way from other areas	yes	no

13. Other

Date / Signature

/ _____

Installation Example for EASZON Chlorine Dioxide System

- ① EASZON system
 - ② Chemical container
 - ③ Shut off valve
 - ④ Tube or system isolator
 - ⑤ Water supply
 - ⑥ Pressure-relief valve
 - ⑦ Additional shut off valve
 - ⑧ Contact head water meter
 - ⑨ CLO₂ injection nozzle
 - ⑩ Mixing section
 - ⑪ Sampling of measuring water
 - ⑫ Analytical equipment
- optional

