

# Checklist for EASYDES UV-Desinfection System

Please send this completed record sheet to the following fax number or e-mail address:  
Lutz-Jesco GmbH, Herrn Dr. Hans-Joachim Diederich, Am Bostelberge 19, 30900 Wedemark  
[diederich@jesco.de](mailto:diederich@jesco.de), Tel. +49 (0)5130 5802-67, Fax +49 (0)5130 580268

1. General item information				
1.1	<b>Item</b>	<i>New construction project</i>	<i>Existing building</i>	
1.2	<b>Type of building</b>	<i>Swimming Pool</i>	<i>Hospital</i>	<i>Sports Facility</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	<b>Item's address</b>			
1.3.1	Item's Name			
1.3.2	Street			
1.3.3	Postcode / Town			
1.3.4	Phone / Fax	/		

2. Contacts						
2.1	<b>Company</b>					
2.2	<b>Name</b>					
2.3	<b>Street</b>					
2.4	<b>Postcode / Town</b>					
2.5	<b>1. Contact partner</b>	<i>Mr.</i>	<i>Mrs.</i>	<b>2. Contact partner</b>	<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	<b>Lutz-Jesco contact partner</b>	<i>Mr.</i>	<i>Mrs.</i>			
2.7.1	Phone / Fax	/				
2.7.3	Region					

3. Notes	

--

4. Water				
4.1	Type of water	Warm drinking water	Cold drinking water	swimming pool water
		Other application:		

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

6. Piping Data				
6.1	Piping material			
6.2	Pipe cross section on the UV-unit			
6.3	Max. permissible operating pressure for the UV-unit	[bar]		
6.4	Age of the unit (year of construction)			
6.5	Cold and warm water installation plans are available	yes	no	
6.6	Toilets with flush valve (unrestricted)	yes	no	
6.7	Number of flush valves			

7. Water Treatment (available?)						
7.1	Softening unit	yes	no			
7.1.1	Unit type / Manufacturer	/				
7.2	Reverse osmosis unit	yes	no			
7.2.1	Manufacturer					
7.3	Filter					
7.3.1	Iron	yes	no	If yes: can back flush	yes	no
				last filter change [month/year]:	last back flush [month/year]:	
7.3.2	Manganese	yes	no	If yes: can back flush	yes	no
				last filter change [month/year]:	last back flush [month/year]:	
7.3.3	Nitrate	yes	no	If yes: can back flush	yes	no
				last filter change [month/year]:	last back flush [month/year]:	

7.3.4	Other	yes	no	If yes: for last filter change [month/year]:	, can back flush	yes	no	last back flush [month/year]:
7.4	<b>Dosing unit</b>	yes	no					
7.4.1	Unit type / Manufacturer			/				
7.4.2	What is dosed/metered?							

## 8. Water Parameters / Water Analysis

	<i>It. Drinking water Standards</i>	<i>Measured values</i>	<i>General recommendations for UV applications</i>
8.1	<b>Temperature</b> <i>no limit</i>		
8.2	<b>pH-value</b> 6,5 - 9,5		
8.3	<b>Elec. conductivity</b> [ $\mu\text{S/cm}$ ] < 2500		
8.4	<b>Iron (<math>\text{Fe}^{2+}</math>)</b> [ $\text{mg/l}$ ] < 0,2		< 0,05
8.5	<b>Manganese (<math>\text{Mn}^{2+}</math>)</b> [ $\text{mg/l}$ ] < 0,05		< 0,02
8.6	<b>Nitrate (<math>\text{NO}_3^-</math>)</b> [ $\text{mg/l}$ ] < 50 *)		< 20
8.7	<b>Nitrite (<math>\text{NO}_2^-</math>)</b> [ $\text{mg/l}$ ] < 0,5 *)		< 0,05 in cold DW < 0,1 in warm DW
8.8	<b>Sulphate (<math>\text{SO}_4^{2-}</math>)</b> [ $\text{mg/l}$ ] < 240		
8.9	<b>Silicium</b> [ $\text{mg/l}$ ] <i>no limit</i>		
8.10	<b>Total hardness of the water</b> [ $\text{mmol/l}$ ] <i>no limit</i>		
8.11	<b>Carbonate hardness</b> [ $\text{mmol/l}$ ] <i>no limit</i>		
8.12	<b>SSK-value (at 254 nm)</b> [ $1/\text{m}$ ] <i>no limit</i>		$\leq 15$
8.13	<b>SAK-value (at 254 nm)</b> [ $1/\text{m}$ ] <i>no limit</i>		$\leq 10$
8.14	<b>NTU Nephelometric Turbidity Unit</b> < 1,0		$\leq 0,3$
8.15	<b>Water analysis is available and is attached</b>	yes    no	

\*) and [ $\text{NO}_3^-/50 + \text{NO}_2^-$ ] < 1mg/l

## 9. Hygiene Parameters Water Disinfection

9.1	<b>Microbiological analyses are available and are attached</b>	yes	no
9.2	<b>An analysis has been made to date</b>	yes	no
9.3	<b>Which germs/bacteria should be eliminated?</b>		
9.4	<b>A disinfectant is added by the water supplier agent</b>	yes	no
9.4.1	Disinfectant / Concentration [ $\text{mg/l}$ ]		/

**10. On-site Installation Requirements**

10.1	<b>Specify the location of the UV-unit</b>		
10.2	<b>Existing shut-off devices</b>		
10.2.1	in front of the injection nozzle	yes	no
10.2.2	after the injection nozzle	yes	no
10.3	<b>Existing water meters (or flow-measuring with signal output)</b>	yes	no
10.3.1	Type of signal (default: Impulse (Reed contact)), ACTUAL:		
10.3.2	Signal sequence (default: Impulse/ ≤10 l), ACTUAL:		

**11. Other**

Date / Signature

/ \_\_\_\_\_

### Installation Example for EASDES UV-unit

- ① Ventilation and degassing valve
- ② Drain
- ③ Control unit
- ④ Shut off valve
- ⑤ Prefilter (if necessary)
- ⑥ Drain by removing of UV lamp (ATTENTION! First switch of power supply)

