

**Technical data**

<b>DIOX-A 2500</b>	
Capacity	2500 g ClO <sub>2</sub> /h
Weight, empty	190 kg without / 240 kg with booster pump
Need of	
▪ HCl (30 – 38 %)	16.5 l/h
▪ NaClO <sub>2</sub> solution (24.5 %)	16.5 l/h
▪ Operating water	Process water + aspiration injector water, see separate table
Product concentration	1.5 – 3.0 g/l (adjustable in 0.1 g/l steps)
Electrical supply without booster pump	1/N/PE AC 230 V, 50 Hz
Electrical supply with booster pump	3/N/PE AC 400/230 V, 50 Hz
Total power consumption	0.3 kVA without / 4,1 kVA with booster pump
Power supply fusing	1 x 20 A without / 3 x 20 A with booster pump
Max. cable cross section single- or multi-wire	16 mm <sup>2</sup>
Max. cable cross section with cable end sleeves	10 mm <sup>2</sup>
Enclosure rating total generator	IP 54
Ambient temperature during operation	10 - 35 °C
Humidity	5 – 95 %
Temperature operating water	10 - 30 °C
Storage and transport temperature	5 - 55 °C
<b>Connections</b>	
Operating water	PVC DN 25
Product pipe	PVC DN 25
Vent gas pipe	PVC DN 25
Chlorine dioxide vent gas	PVC DN 15
Feed pipe HCl	PVC DN 10
Feed pipe NaClO <sub>2</sub>	PVC DN 15
<b>Dimensions</b>	
W x H x D	1350 x 1880 x 790 mm
Space for operation and maintenance (min.)	50 cm beside, 60 cm in front, 5 cm behind the unit
Storage tank 900 l, diameter, height without accessories	1025 mm, 1715 mm
Storage tank 2750 l, diameter, height without acc.	1767 mm, 1820 mm
Storage tank 4600 l, diameter, height without acc.	2270 mm, 1870 mm

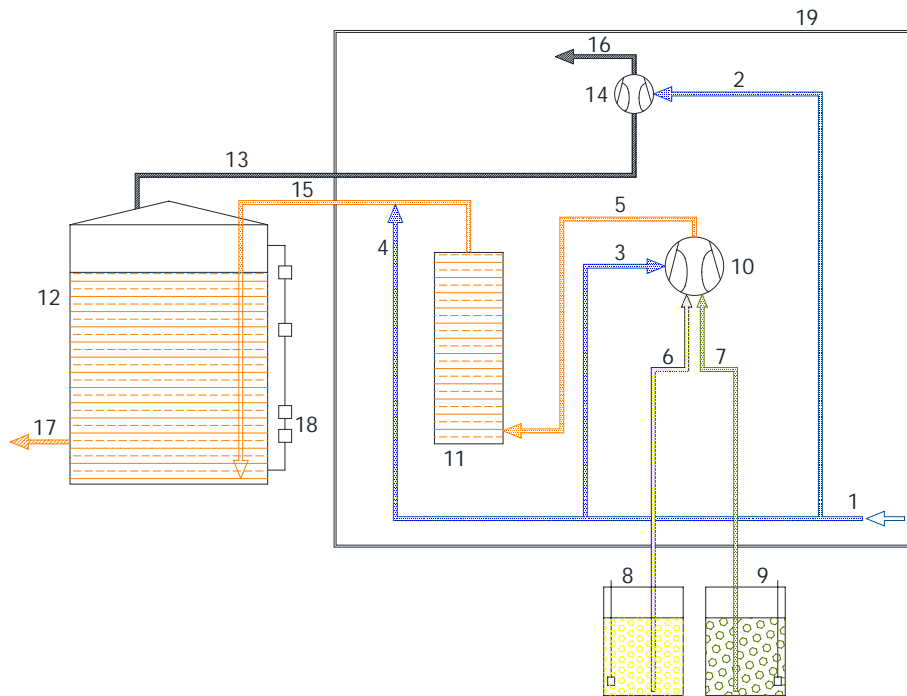
Capacity	Booster pump	Back pressure, max.	permitted pre-pressure	Part No.	Name	Injector water
2500 g/h ClO <sub>2</sub>	no	1.0 bar	5 – 16 bar	W3T265939	2500-N10	2900 l/h
		2.0 bar	10.5 – 16 bar	W3T265940	2500-N20	2100 l/h
		3.0 bar	10.5 – 16 bar	W3T265951	2500-N30	3100 l/h
		4.0 bar	10.5 – 16 bar	W3T265952	2500-N40	4000 l/h
	yes	1.0 bar	0 – 4 bar	W3T265954	2500-D10	2900 l/h
		2.0 bar	0 – 4 bar	W3T265955	2500-D20	2100 l/h
		3.0 bar	1 – 4 bar	W3T265956	2500-D30	3100 l/h
		4.0 bar	2.5 – 4 bar	W3T265957	2500-D40	4000 l/h

ClO <sub>2</sub> Conc. g/l	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5
Process water l/h	800	830	860	890	930	970	1010	1050	1100	1160	1220	1280	1360	1440	1530	1630

\*1 Drinking water quality according WHO Guidelines for drinking water quality, third edition, temperature 10 - 30 °C, connection according DIN 1988 T4 respectively DIN EN 1717

Installation recommendations	
Storage tank	<p>Usable volume: min. 900 l. Material of tank and pipes: resistant against chlorine dioxide (3.0 g/l at 35 °C)            Installation according to DIN EN 13121-4 in collecting basin            Volume depends on country specific regulations.            Safety equipment to be installed (included in accessories kit W3T232071):</p> <ul style="list-style-type: none"> <li>■ Temperature sensor W3T242724</li> <li>■ Absorber with air intake valve and vacuum switch (overflow ClO<sub>2</sub> tank, air intake ClO<sub>2</sub> tank, aspiration monitoring) W3T251942</li> <li>■ Level sensor W3T240930</li> <li>■ Flow switch (monitoring overflow) W3T163928</li> </ul> <p>For maintenance and diagnosis a 3-way ball valve W3T264239 must be built into the feed pipe (part of the accessories kit).</p> <p>The annual check of the storage tank by a certified monitoring centre falls to the operator.</p>
Recommended accessories	Chlorine gas leak detector with one flash / horn detector for each generator
Interfaces / connections	RS 485: The Siemens SIMATIC S7-1200 control is prepared for data exchange via PROFIBUS DP to a superior Profibus DP net.

### Process design



1. Operating water
2. Operating water gaseous phase aspiration
3. Operating water mixing injector
4. Dilution water
5. Chlorine dioxide, concentrated
6. Sodium chlorite solution
7. Hydrochloric acid solution
8. Storage tank sodium chlorite
9. Storage tank hydrochloric acid
10. Mixing injector
11. Reactor
12. Product tank
13. Chlorine dioxide gaseous phase
14. Gaseous phase aspirating injector
15. Chlorine dioxide solution, post-diluted
16. Gaseous phase discharge
17. to metering unit
18. Level switch
19. DIOX-A 2500 unit

Evoqua  
Water Technologies

Germany  
+49 8221 9040  
wtger@evoqua.com

United Kingdom  
+44 1732 771777  
info.uk@evoqua.com

USA  
+1 856 507 9000  
wtus@evoqua.com

© Evoqua Water Technologies GmbH 2015  
WT.085.215.010.DE.DS.0715  
Subject to change without prior notice.

PROFIBUS is a trademark of Profibus International.

All information presented herein is believed reliable and in accordance with accepted engineering practices. Evoqua makes no warranties as to the completeness of this information. Users are responsible for evaluating individual product suitability for specific applications. Evoqua assumes no liability whatsoever for any special, indirect or consequential damages arising from the sale, resale or misuse of its products.