

Oxidative drinking water treatment (H₂O₂, Ozone, UV)



DIMENSIONS

Dimensions	13 pallets (á 1000 x 1200 x 2000 mm L x B x H)
Weight	approx. 1450 kg
Material (wetted parts)	PEEK / EPDM / PVDF / FKM / Ceramic / PE / PP / POM / PVC / Glass and stainless steel (group V4A)
IP protection class	IP 54

ELEKTRICAL DATA

Connection for power supply	400V / 50 Hz / 3-phase / 32 A CEE
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DATA

Storage tank	<ul style="list-style-type: none"> 1 micropollutant-tank (approx. 60 l, PE) 2 water-tanks (approx. 500 l, PE) 2 oxidizing agent-tanks (approx. 250 l, PE/PP) 1 backwash-tank (approx. 140 l, PE) 1 collecting-tank (approx. 250 l, PE)
Pumps	<ul style="list-style-type: none"> 2 gear pumps (feed) 4 dosing pumps (oxidizing agent) 2 dosing pumps (micropollutant) 2 centrifugal pumps (oxidizing agent sensor) 3 gear pumps (RSSCT) 1 centrifugal pump (collecting tank) 1 centrifugal pump (backwash tank)

	5 dosing pumps (ozone sensors)
Reactors	2 tube reactors (stainless steel)
Ozone	2 ozone generators (3 g O ₃ /h) 2 catalytic ozone destructors
UV-light	1 UV-light reactor (at least 400 J/m ²)
Filter	1 sand filter (0,2 – 4 mm particle size) 1 GAC filter (granular activated carbon)
Separator	2 gas separators
Demister	2 pieces
Temperatur range	up to 50 °C
Pressure range	0 – 6 bar
System control via PLC (type Siemens S7 / Profinet)	safety shut-off and dry run protection (p,T) ambient air monitoring (ozone concentration)
The system control via PLC guarantees the performance of long-term test and independent and safe system operation.	

(The specified technical data are maximum values. They do not coincide all at the same time!)

SENSORS	MEASURING RANGE	QUANTITY
Pressure	0 - 6 bar	(2 pieces)
	0 -2,5 bar	(5 pieces)
pH-measurement	pH-glass electrode	(4 pieces)
H ₂ O ₂ sensor	0 – 2 %	(2 peices)
Ozone sensor	0 – 200 ppm	(5 pieces)
Ozone ambient air monitor	0,01 – 1,00 ppm	(2 pieces)
Volume flow (magnetic-inductive flow meter)	0 – 200 l/h	(4 pieces)
Volume flow (magnetic-inductive flow meter)	0 – 3 l/h	(3 pieces)
Level control (storage tanks)	Guided microwave	(9 pieces)
Level control (toggle switch)		(4 pieces)
Temperature (PT 100)	0 - 100 °C Temperature compensation included	(4 pieces)

Schematic view of oxidative drinking water treatment

