

LENNTECH
WATER TREATMENT SOLUTIONS

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ozonia[®] ODT[™]

thermal ozone destruct systems



Un-reacted ozone must pass through a vent ozone destruct unit prior to release into the atmosphere.

applications

- thermal ozone destruct systems are suitable for all types of processes especially when catalytic poisons are present

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ready for the resource revolution



ozone destruct technology: **ozonia[®] ODT[™]**

**ozonia[®] ODT[™] units
are compact and
reliable
low-cost
destruct units**



Exhaust gases from processes where ozone has been used invariably contain residual amounts of un-reacted ozone. Before this exhaust can be vented into the atmosphere, it is necessary to decompose the traces of ozone. In most countries it is prohibited to release even low-level concentrations into the atmosphere.

There are various methods available to treat vent gas. Two popular methods are thermal and catalytic destruction which are selected to match the existing process. Thermal destruct units raise the temperature of the vent gas to a level where the half-life of the ozone is reduced to milliseconds, and catalytic units accelerate the ozone molecule decay rate on the surface of the catalyst, converting the ozone to oxygen.

how it works

The vent gases leaving the process are routed to the **ozonia[®] ODT[™]** vent ozone destruct unit. In the reaction chamber, the gases are heated to around 400°C which radically reduces the half-life of the ozone molecule and, consequently, accelerates the decomposition rate so that the ozone content in the gas stream leaving the **ozonia[®] ODT[™]** is well below the recognized safety limits (<0.1 ppm).

The temperature in the reaction chamber is thermostatically controlled.

product highlights

- ▶ very high ozone destruct efficiency
- ▶ processor controlled
- ▶ long service life
- ▶ maintenance-free
- ▶ easy integration
- ▶ compact dimensions
- ▶ high product integrity
- ▶ insensitive to air quality

model	flow		ozone level		operating pressure	
	volume (scfm)	volume (Nm³/h)	inlet (wt%)	outlet (ppm)	psig	bar (g)
ozonia® ODT™-003	1.9	3	< 3	< 0.1	< 6.5	< 0.45
ozonia® ODT™-006	3.8	6	< 3	< 0.1	< 6.5	< 0.45
ozonia® ODT™-012	7.6	12	< 3	< 0.1	< 6.5	< 0.45
ozonia® ODT™-020	12.6	20	< 3	< 0.1	< 6.5	< 0.45
ozonia® ODT™-030	19	30	< 3	< 0.1	< 6.5	< 0.45
ozonia® ODT™-060	38	60	< 3	< 0.1	< 6.5	< 0.45
ozonia® ODT™-120	76	120	< 3	< 0.1	< 6.5	< 0.45
ozonia® ODT™-180	114	180	< 3	< 0.1	< 6.5	< 0.45
ozonia® ODT™-240	152	240	< 3	< 0.1	< 6.5	< 0.45

technical features

- **design standards:** EN, IEC, ISO, SN
- **protection class:** IP 42, NEMA 1
- **conformity:** CE, UL
- **connection data:** 1x230 / 3x400 V
±10%, 50 Hz/60 Hz

materials

- **heater:** incoloy 800
- **housing and pipes:** stainless steel
- **insulation:** mineral wool
- **frame:** galvanized steel

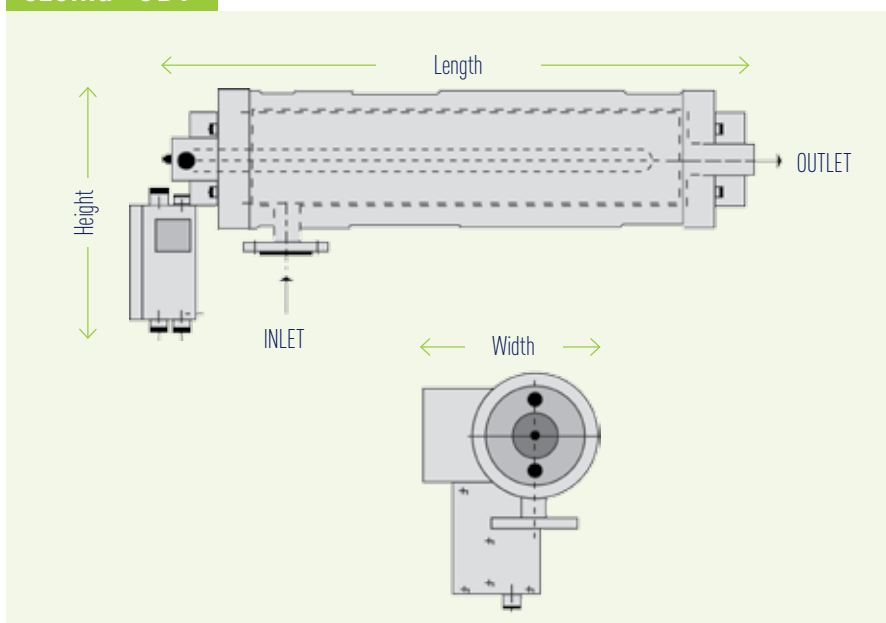
remote controls and alarms

- **unit ON/OFF**
- **unit running**
- **temperature lower than max. alarm value**
- **temperature higher than lower alarm value**

option

- **ozonia® ODT-012 to 240:**
voltage levels (200-480 V)

ozonia® ODT™



model	L x H x W		weight	
	inch	mm	lb	kg
ozonia® ODT-003	26 x 13 x 10	660 x 330 x 250	24.3	11
ozonia® ODT-006	34 x 13 x 10	860 x 330 x 250	28.7	13
ozonia® ODT-012	35 x 16 x 10	890 x 405 x 250	33.1	15
ozonia® ODT-020	48 x 11 x 10	1,220 x 280 x 250	59.5	27
ozonia® ODT-030	49 x 11 x 10	1,240 x 280 x 250	66.1	30
ozonia® ODT-060	48 x 19 x 18	1,220 x 480 x 460	99.2	45
ozonia® ODT-120	63 x 22 x 24	1,600 x 560 x 610	220.5	100
ozonia® ODT-180	65 x 27 x 26	1,650 x 690 x 660	352.7	160
ozonia® ODT-240	65 x 25 x 26	1,650 x 640 x 660	396.8	180

SUEZ's **ozonia**® ozone technology portfolio includes products from the laboratory scale to the largest ozone systems ever built. Suez uses our extensive ozone technology experience to provide the industry's most reliable and robust products.

Our unique ability to deliver the most reliable and robust systems is why thousands of customers around the world have chosen **ozonia**® ozone systems.

We have been the ozone industry pioneer for over 25 years. Trust SUEZ to deliver the highest quality ozone solutions to meet your treatment challenges.

7
product ranges
certified to
international
standards

over
10,000
installations

over
25
years of
experience



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