

LENNTECH
WATER TREATMENT SOLUTIONS

ozonia® RB

thermal ozone destruct units with heat recuperation



Vent gases containing trace levels of un-reacted ozone must be passed through a thermal or catalytic type vent ozone destruct unit before being released into the atmosphere. The **ozonia® RB** units include a heater, reaction chamber, suction fan, control system and are an energy-efficient solution.

ready for the resource revolution



ozone destruct technology: ozonia® RB



Vent gases from processes where ozone has been used invariably contain residual amounts of un-reacted ozone. Before this gas can be released 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 process in question. The 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 in the catalytic units the ozone molecule decay rate is accelerated 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® RB** vent ozone destruct unit. In the heater the gases are heated up 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 VOD is well below the recognised safety limits (< 0.1 ppm). In order to reduce the electrical requirement for heating the system incorporates a heat recuperation feature.

product highlights

- ▶ very high ozone destruct efficiency
- ▶ low power consumption
- ▶ long service life
- ▶ virtually maintenance-free
- ▶ easy integration
- ▶ compact dimensions
- ▶ high product integrity

model	mass flow (kg/h)		ozone level		operating pressure (barg)	electrical rating (kW)	dimensions LxHxW (mm)	weight (kg)
	air	oxygen	inlet (wt%)	oulet (ppm)				
ozonia® RB-10	100	110	< 1.5	< 0.1	±0.1	6.7	4330 x 1740 x 800	720
ozonia® RB-13	125	140	< 1.5	< 0.1	±0.1	7.7	4330 x 1740 x 800	730
ozonia® RB-16	160	175	< 1.5	< 0.1	±0.1	9.2	4370 x 1840 x 900	1030
ozonia® RB-20	200	220	< 1.5	< 0.1	±0.1	10.7	4370 x 1840 x 900	1050
ozonia® RB-25	250	275	< 1.5	< 0.1	±0.1	12.7	4370 x 1840 x 900	1070
ozonia® RB-32	315	350	< 1.5	< 0.1	±0.1	15.7	4970 x 1915 x 1000	1250
ozonia® RB-40	400	440	< 1.5	< 0.1	±0.1	18.7	4970 x 1915 x 1000	1280
ozonia® RB-50	500	550	< 1.5	< 0.1	±0.1	22.7	5050 x 1915 x 1000	1600
ozonia® RB-63	630	700	< 1.5	< 0.1	±0.1	27.7	5050 x 1915 x 1000	1670
ozonia® RB-80	800	880	< 1.5	< 0.1	±0.1	38.5	5540 x 2180 x 1100	1780
ozonia® RB-100	1000	1100	< 1.5	< 0.1	±0.1	46.5	5540 x 2180 x 1100	1850
ozonia® RB-125	1250	1400	< 1.5	< 0.1	±0.1	57.5	6090 x 2355 x 1200	2700
ozonia® RB-160	1600	1750	< 1.5	< 0.1	±0.1	72.5	6090 x 2355 x 1200	2800
ozonia® RB-200	2000	2200	< 1.5	< 0.1	±0.1	91.0	6380 x 2605 x 1300	3100
ozonia® RB-250	2500	2750	< 1.5	< 0.1	±0.1	115.0	6380 x 2605 x 1300	3300
ozonia® RB-315	3150	3500	< 1.5	< 0.1	±0.1	150.0	6580 x 2805 x 1300	4000
ozonia® RB-400	4000	4400	< 1.5	< 0.1	±0.1	180.0	7180 x 2905 x 1400	4900
ozonia® RB-500	5500	5500	< 1.5	< 0.1	±0.1	230.0	7280 x 3105 x 1500	5800

* at standard conditions

technical features

- **design standards:** EN, IEC, ISO, SN
- **protection class:** IP 42
- **conformity:** CE
- **connection data:** 3 x 400 V ±10%, 50 Hz

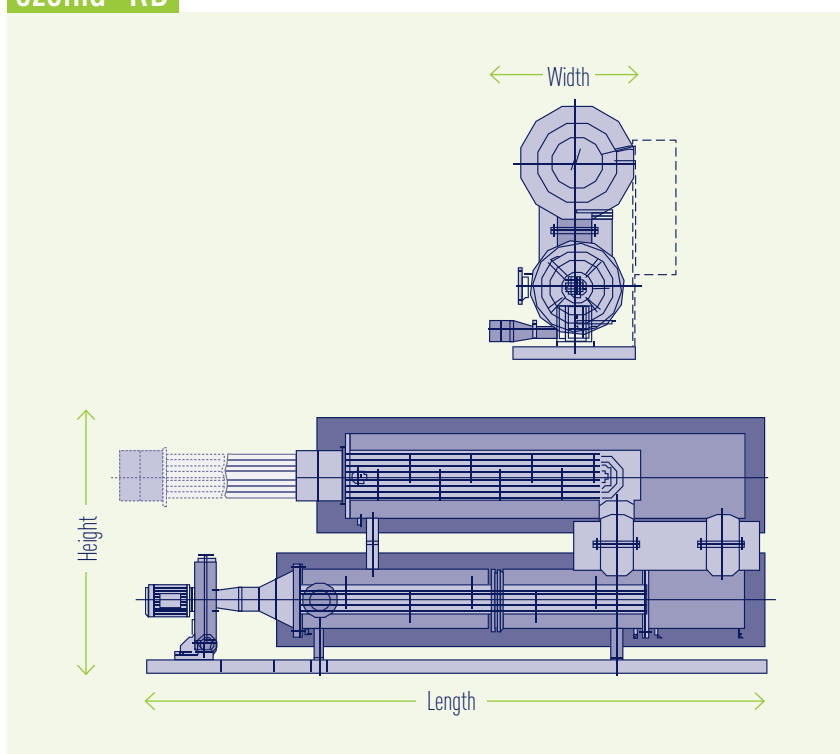
materials

- **VOD:** stainless steel
- **skid:** galvanised mild steel
- **fan:** stainless steel and aluminium
- **insulation :** mineral wool
- **cover sheet:** galvanised mild steel

remote control and alarms

- **enable REMOTE**
- **unit running**
- **temperature lower than max. alarm value**
- **temperature higher than lower alarm value**
- **over protection switch tripped**
- **all miniature circuit breakers are ON**
- **unit ON/OFF**

ozonia® RB



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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