



# centriair

Cleaner air. Fewer resources.



ColdOx<sup>®</sup> R-series

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## Recognized effective odor reduction

ColdOx<sup>®</sup> is a proven technology that combines a UV-reactor with subsequent activated carbon to reduce VOC and odor emissions. Applications where ColdOx<sup>®</sup> is considered the best available technology against odor include sewage, waste, food industry, biogas and slaughterhouses

ColdOx<sup>®</sup> has documented high reduction, up to 99%, measured in odor units per m<sup>3</sup>. ColdOx<sup>®</sup> R series is a standardized product series based on well-proven and established technology. With its compact design, it is easily placed in, for example, pump stations, waste rooms and other limited spaces.

The device reduces odor through:

- 1) Ionizing UV radiation
- 2) Oxidation with ozone
- 3) Post-polishing activated carbon.



*ColdOx R150 installed in a pumping station.*

## Functions & features

### Safety

- Minimized risk of ozone leakage due to the integrated pressure switch and the system's interlock against the fan.
- For your staff's work environment, the unit offers automated forced ventilation.
- Increased safety through the possibility of connecting external signals, for example ozone sensor or fire alarm.

### Reliability

- A high degree of purification over time and reduced operating costs are offered thanks to automatic purging of UV lamps.
- Proven and established technology.

### Monitoring

- Collect your monitored units in your supervising system and receive alarms for various operating scenarios via modbus or potential-free signals.
- Safe operation through a communication module that enables remote monitoring and control as well as adjustment of all operating parameters. Monitor all devices through the same interface. Alarm notification through mail or SMS, to Centriair's service team and your staff.

### Performance

- Up to 99% separation rate, immediately upon start-up.
- Independent studies state this as the best technology.

## Process ColdOx<sup>®</sup>

Through photolysis the UV reactor breaks down particles, creating ozone and converting ozone to free oxygen radicals. Ozone and free radicals oxidize malodoros particles, effectively eliminating odors and regenerating the carbon bed.

Higher separation and stable operation together with reduced investment cost, operating cost and climate impact makes ColdOx<sup>®</sup> the natural choice when odor reduction is needed.



*ColdOx R150*



*ColdOx R300*

# Specifications

**Centriair's leading technology provides high performance, high reliability and safe and healthier working environment, so you can focus on your production.**



ColdOx R150.



ColdOx R300-R2500.

The R series is a standardized product range that handles everything from small flows up to 2500m<sup>3</sup>/h. Do you need to reduce odors in larger ventilation flows? Contact us for more information about our larger ColdOx® systems.

	R150	R300	R550	R850	R1100	R1500	R1800	R2200	R2500
<b>Capacity</b>									
Flow up to [m <sup>3</sup> /h]	150	300	550	850	1100	1500	1800	2200	2500
<b>Dimensions</b>									
Inlet [Ø mm]	160	160*	250*	250*	315*	315*	400*	400*	400*
Outlet [Ø mm]	200*	200	315	315	315	315	400*	500*	500*
Height [mm]	1200	1400	1450	1450	1550	1550	1700	1700	1700
Width [mm]	500	1150	1300	1850	1950	2400	2100	2500	2500
Depth [mm]	550	440	650	650	850	850	1200	1200	1350
Weight incl. carbon [kg]	120	260	440	570	780	900	1000	1200	1400
Drainage [mm]	Inlet	2pcs á 50	2pcs á 50	2pcs á 50	2pcs á 50	2pcs á 50	2pcs á 50	2pcs á 50	2pcs á 50
Hatch for access to carbon [mm]	500x550	300x385	300x385	300x385	300x385	300x385	300x385	300x385	300x385
Material	EN 1.4404	EN 1.4404	EN 1.4404	EN 1.4404	EN 1.4404	EN 1.4404	EN 1.4404	EN 1.4404	EN 1.4404
<b>Technical information</b>									
Supply Electricity [VAC]	230	230	230	230	230	230	400	400	400
Automatic purge 2-6 bar, solenoid valve [Ø inch]	Missing	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Placement indoors	Wall - M8	Floor	Floor	Floor	Floor	Floor	Floor	Floor	Floor
PUS Grounding	M6	M6	M6	M6	M6	M6	M6	M6	M6
Installed power [W]	310	358	483	1051	1023	1064	1429	1511	1593
Maximum air temperature [°C]	80	80	80	80	80	80	80	80	80
Amount of carbon [kg]	50	100	175	275	375	475	575	700	800
<b>Control &amp; monitoring</b>									
Fan control	PID	PID	PID	PID	PID	PID	PID	PID	PID
Operation and monitoring via modbus or potential-free contacts	✓	✓	✓	✓	✓	✓	✓	✓	✓
Connection ozone sensor	✓	✓	✓	✓	✓	✓	✓	✓	✓
Remote monitoring via netbiter	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fire alarm connection	✓	✓	✓	✓	✓	✓	✓	✓	✓

\*Interchangeable for RHS or LHS installations. Also applies to the display for R300-R2500.



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Centriair introduces a new era of industrial air treatment. By applying advanced technology in separation, catalysis and oxidation together with extensive application know-how, we create the world's most efficient solutions for air treatment. Solutions that better separate and eliminate harmful substances with the least possible impact on energy and the environment. The result is compact and efficient industrial solutions for air handling, supported by real-time, data-driven monitoring and control. In a world where we are all responsible for the air we breathe, the environment we share and the energy we consume, Centriair puts efficiency and performance at the heart of everything we do.