Off-gases containing trace levels of un-reacted ozone must be passed through a thermal or catalytic type vent ozone destruct unit before venting to the atmosphere.

APPLICATIONS

 Thermal ozone destruct units are suitable for all types of processes where catalytic poisons are present

MAIN CHARACTERISTICS

 The RB units include a heater, reaction chamber, suction fan, control system and are an energy-efficient solution



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 process in question. The thermal destruct units raise the temperature of the off-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 RB vent ozone destruct unit. In the reaction chamber 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

TECHNICAL DATA	Mass Flow (kg/h)		Ozone Level		Operating Pressure	Electrical Rating	Dimensions LxHxW	Weight
RB™ MODEL	Air	Oxygen	inlet (wt%)	Oulet (ppm)	(barg)	(kW)	(mm)	(kg)
RB-10	100	110	< 1.5	< 0.1	±0.1	6.7	4330 x 1740 x 800	720
RB-13	125	140	< 1.5	< 0.1	±0.1	7.7	4330 x 1740 x 800	730
RB-16	160	175	< 1.5	< 0.1	±0.1	9.2	4370 x 1840 x 900	1030
RB-20	200	220	< 1.5	< 0.1	±0.1	10.7	4370 x 1840 x 900	1050
RB-25	250	275	< 1.5	< 0.1	±0.1	12.7	4370 x 1840 x 900	1070
RB-32	315	350	< 1.5	< 0.1	±0.1	15.7	4970 x 1915 x 1000	1250
RB-40	400	440	< 1.5	< 0.1	±0.1	18.7	4970 x 1915 x 1000	1280
RB-50	500	550	< 1.5	< 0.1	±0.1	22.7	5050 x 1915 x 1000	1600
RB-63	630	700	< 1.5	< 0.1	±0.1	27.7	5050 x 1915 x 1000	1670
RB-80	800	880	< 1.5	< 0.1	±0.1	38.5	5540 x 2180 x 1100	1780
RB-100	1000	1100	< 1.5	< 0.1	±0.1	46.5	5540 x 2180 x 1100	1850
RB-125	1250	1400	< 1.5	< 0.1	±0.1	57.5	6090 x 2355 x 1200	2700
RB-160	1600	1750	< 1.5	< 0.1	±0.1	72.5	6090 x 2355 x 1200	2800
RB-200	2000	2200	< 1.5	< 0.1	±0.1	91.0	6380 x 2605 x 1300	3100
RB-250	2500	2750	< 1.5	< 0.1	±0.1	115.0	6380 x 2605 x 1300	3300
RB-315	3150	3500	< 1.5	< 0.1	±0.1	150.0	6580 x 2805 x 1300	4000
RB-400	4000	4400	< 1.5	< 0.1	±0.1	180.0	7180 x 2905 x 1400	4900
RB-500	5500	5500	< 1.5	< 0.1	±0.1	230.0	7280 x 3105 x 1500	5800

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: Galvanised mild steel

Insulation : Mineral wool

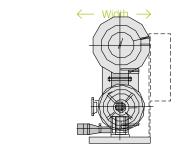
· Cover sheet: Galvanised mild steel

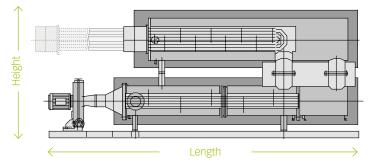
REMOTE CONTROL AND ALARMS

• 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





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