

CATALYTIC OZONE OFF-GAS DESTRUCTION UNITS

DOTCAT RANGE

The residual ozone in the vent gas from the reaction/contact chamber must be destroyed before discharging to the atmosphere.

Ozone off-gas can be destroyed by thermal or thermo-catalytic decomposition process.

Catalytic destruction unit:

Catalytic ozone destruction also proceeds optimally above a minimum temperature, therefore pre-heating of the ozone gas mixture is necessary.

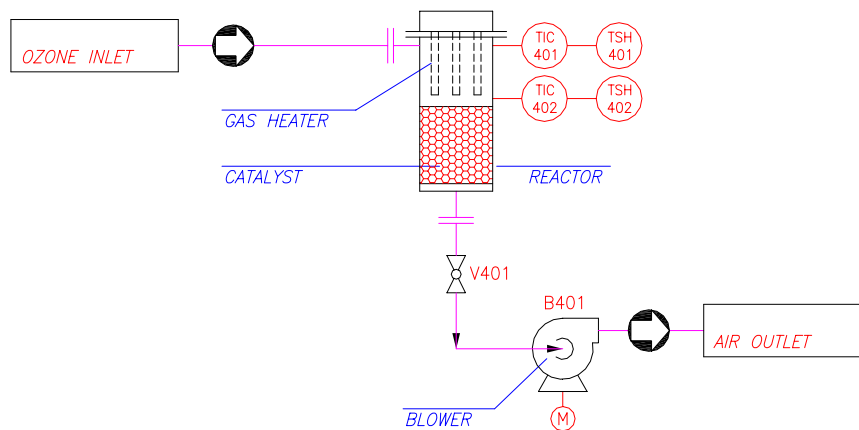
The catalytic skid unit consists of the following parts:

- gas heater
- reactor with catalyst
- controls.



Model- DOTCAT

GENERAL PROCESS LAYOUT OF CATALYTIC OZONE DESTRUCTION



CATALYTIC OZONE DESTRUCTORS

RATING DATA AND DIMENSIONS OF DOTCAT CATALYTIC UNITS

TYPE	Flow (Nm ³ /h)	Installed power (KW)	Absorbed power (kW)	Blower power (kW)	Dimensions, mm (WxDxH)
DOTCAT 50	50	1.73	1	0.37	850x420x1500
DOTCAT 70	70	1.73	1.4	0.37	740x535x1500
DOTCAT 110	110	2.43	2.2	0.75	870x540x1610
DOTCAT 160	160	3.81	3.2	1.5	900x570x1610
DOTCAT 240	240	5.55	4.8	2.2	1050x650x1690
DOTCAT 320	320	8.32	6.4	2.2	1250x710x1853
DOTCAT 320	400	10.40	8.0	2.2	1200x750x1853
DOTCAT 500	500	11.09	10	3	1150x800x1853
DOTCAT 700	700	15.7	14.2	3	1250x850x1853
DOTCAT 1000	1000	22.7	20.45	3	1250x900x1853

TECHNICAL DATA

Gas conditions IN	
pressure	temperature
0 bar	> 20 °C

Gas conditions OUT	
working temperature	ozone concentration
< 60 °C	0.1 ppm

Gas heater	
type	electric
design pressure	1 bar.abs
design temperature	60 °C

Material of Construction	
blower	AISI 316
Reactor & resistance	AISI 316
skid	AISI 304

Ancillary equipments	
Ambient Ozone analyzer	range: 0 – 2 ppm

Material of Construction	
blower	AISI 316
reactor	AISI 316
skid	AISI 304