KALMOR®

Injection Non-thermal Plasma Deodorizer

Strong Deodorizing

Energy Saving

Injection Type

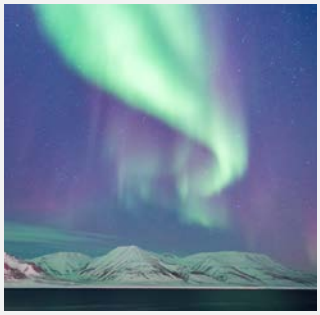
3 Features
Strong Deodorising
Energy saving
Injection Type

Injection Non-thermal Plasma Deodorizer

Plasma deodorization principle

Plasma discharge generates oxidation radicals with strong oxidizing power.The generated oxidation radicals chemically react with odor components in the duct (oxidation reaction), and the odor components are decomposed and removed.

Plasma is a state in which the gas molecules are ionized and split into cations and electrons and are in motion, corresponding to an ionized gas. Under this state, highly reactive components are produced.
In nature, lightning and auroras are plasma states.



Features

Powerful deodorization
A large amount of active ingredients can be generated by special discharge technology. The large amount of active species deodorizes malodorous components with high efficiency.

Energy Saving
Special discharge technology enables generation of a large amount of active ingredients with a small amount of energy.

Injection Method
Conventional pass-through type non-thermal plasma deodorizers are easily contaminated by dust and oil mist contained in exhaust air, resulting in fire risk and performance degradation. Our product is an injection type, so these problems do not occur.

Compared to conventional systems

	Non-thermal Plasma deodrizer		Note
Type	【Our products】 Injection type	【Competetor Products】 Pass-through type	"Pass-through type" is nomal type of non-thermal plasma deodrizers. In the Pass-through type, its discharging elements are installed in the duct.
Maintainability	Good	Bad	In case of the pass-through rype, oil and dust adhere to the discharged parts. There is some risk of fire.
Initial cost	Good	Bad	A high-efficiency generator in our products reduces costs.
Running cost	Good	Bad	A high-efficiency generator in our products reduces costs.
Installation space	Small	Large	Our products can generate a large amount of active ingredients in spite of small generator.

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Specification

Model		10	20
Treatment Air Volume(CMH) ※exhaust/Processing		15000	30000
Power Supply	Voltage	380V	
	Power Consumption	1-40kW ※Depending on the kinds, concentration and gas flow rate of the pollutants	
Equipment Configuration		Power receiving, Cabinet, Heater, Generator,Power supply, Intake filter, Electric valve	
Equipment Dimensions		2550×1850×1980 (mm)	3040×2290×2773(mm)
Equipment Weight		1.4t	1.8t