

DCL America Inc.

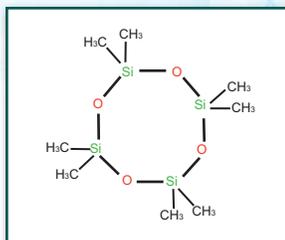
SILOXANE REMOVAL TECHNOLOGY "SRT" SYSTEM

DCL's SRT System is an advanced gas pre-treatment and purification system that is designed to remove harmful siloxanes from the gas supply.



What is Siloxane?

Siloxanes are a group of man-made organic compounds that can differ in composition. They are frequently found in cosmetic and personal hygiene products, health care, food ingredients, plastics and other industrial products.



Increased usage leads to increased presence in landfill and wastewater treatment plants. When biogas containing siloxanes is combusted, i.e. in a boiler, turbine or CHP unit, silicone dioxide (SiO_2) particles are created and contaminate engine and exhaust components downstream.

Typical damage includes: abrasion, wear, coating and plugging of valves, spark plugs, pistons, cylinder heads and catalytic converters.



Benefits of DCL's SRT System

Less Maintenance and Repair

5-10x less frequent oil, oil filter and spark plug exchange, 3-5x less frequent complete engine overhauls, no constant replacement of catalytic converters and less frequent cleaning of the heat exchanger and silencer.

No Increased Backpressure & No Loss of Power

Without SiO_2 build-up in the exhaust system, engines and turbines will not experience increased backpressure levels which can result in loss of power and lower electrical output.

Less Downtime

Engines running on biogas without siloxane removal can experience additional downtime of 30-50% beyond regular maintenance. Engines running with treated biogas or natural gas are expected to be online more than 95% of the time.

With DCL's SRT System, the treated biogas can lead to substantially higher income for plant operators.



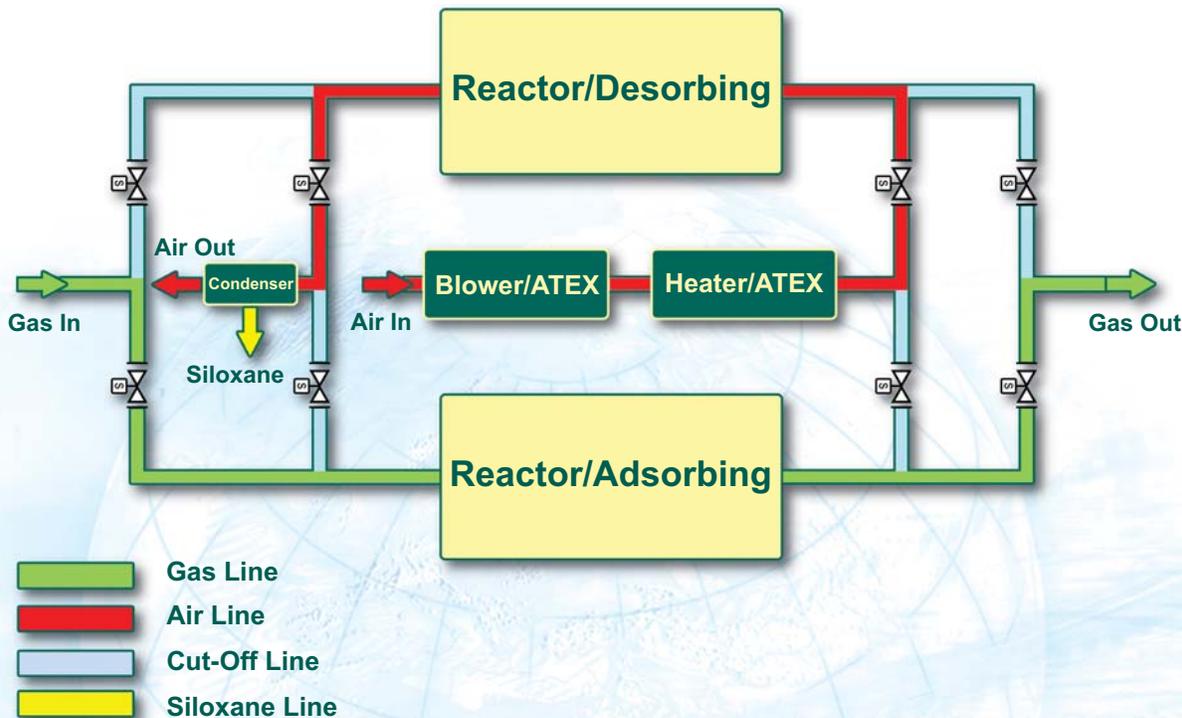
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SILOXANE REMOVAL TECHNOLOGY "SRT" SYSTEM

The DCL Concept



Features of DCL's SRT System

DCL's SRT System stands alone as a cost effective, high efficiency siloxane removal technology and ensures protection of downstream power and heat generation applications. Manufactured with high quality stainless steel materials and its patented removal media, DCL's SRT System meets and exceeds industry standards.

Flexible in its compact layout, DCL's SRT System can be delivered in a vertical package to further minimize its footprint, or horizontal for ease-of-access. With DCL's SRT System, there is no downtime, minimal media changeover and less frequent maintenance required to maintain consistent and effective gas cleaning properties.

Advantages of DCL's SRT System

- ✓ Greater than 90% siloxane removal efficiency
- ✓ No water removal or chiller required
- ✓ Vastly reduced media changeover intervals
- ✓ Media can be regenerated
- ✓ Modular design, capable of expansion
- ✓ Lower operating cost
- ✓ No engine damage through media possible
- ✓ Longer lifespan
- ✓ Compact reactor structure, smaller foot print and lower install cost



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