

80RT-IL™

The Next Generation Solution for Mercury Removal from Flue Gas Streams

The Challenge

Mercury (Hg) is a lethal pollutant, highly toxic to humans, contaminating the aquatic food chain which is a food source for billions.

The global move towards pollution emission control and the international awareness to the problem and risks of Mercury have led environmental protection agencies worldwide to introduce stringent regulations and standards limiting mercury emissions. Mercury emitting industries and processes are therefore required to reduce or even cut-out emission entirely.

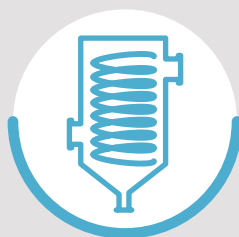
The mercury control technologies commonly applied are based on combinations of activated carbon injection (ACI), filters and chemical additives and suffer from major drawbacks - limited and variable efficiency, intensive CAPEX/OPEX and contaminated by-products that need to be recycled or disposed.

The 80RT-IL™ Innovative Technology

A new approach presenting a breakthrough in efficiency and environmental perspectives:



An innovative
patented absorption
process



Based on a unique absorbent
liquid implemented in a
widely-used pollution control
engineering device (Wet Scrubber)



Simple regeneration
process and mercury
separation



Flue gas stream enters the scrubber in which a unique complex of Ionic liquid and an oxidant agent is circulated. The offered approach and structure enable short contact time between the flue gas and liquid and a very efficient reaction. The mercury is oxidized and binds as a stable complex in the liquid.



The system removes all mercury forms, including elemental mercury. The liquid is regenerated through a simple process in which the metallic mercury swiftly precipitates from the solution and could be quantitatively separated and collected, while the absorbent liquid is regenerated and reused in the process.

Competitive Advantages and Technology Benefits



Environmental Aspects

Based on non-toxic, stable chemical absorber

No waste stream or waste for disposal

Closed and controlled system



CAPEX / OPEX

Reduced CAPEX and OPEX compared to existing solutions

Long product life cycle (Fully regenerated)

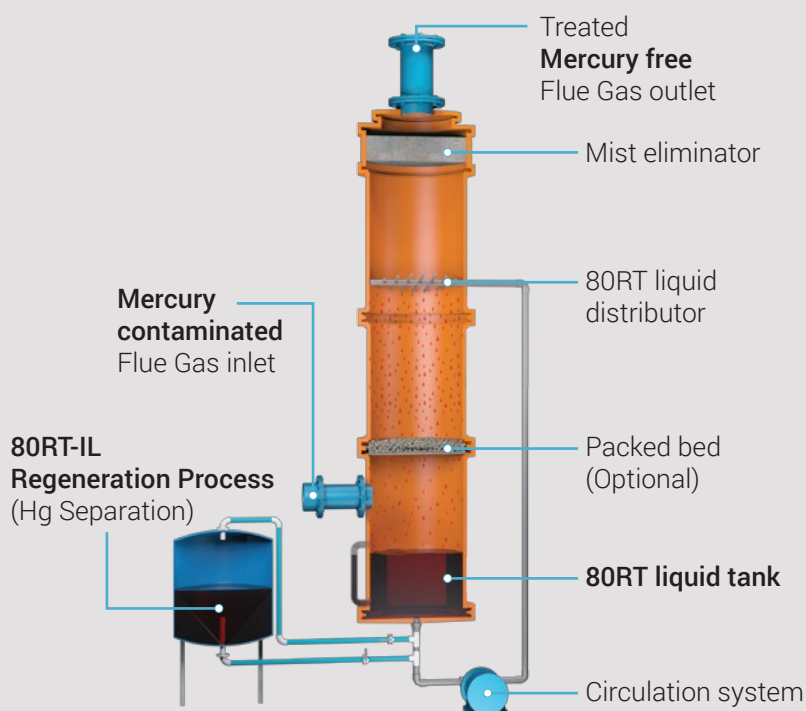


Removal Efficiency

Removes >95% of all Hg emissions

Indifferent to levels of Hg in the gas streams

The system which can be custom-made and installed as a retrofit is a scalable solution applicable to various industries, plants and processes emitting Hg



About Us

Mercu Removal Ltd. was founded in 2015 within Hutchison Kinrot, a leading environmental technology seed investor, owned by Hutchison Water of CK Hutchison Holdings Ltd.

The company holds unique patented technology for Mercury removal from gas streams and is backed by worldwide experts in applied chemistry.

Mercu Removal Ltd.

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