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Waste-to-Energy







Waste-to-Energy : more than 400 references in flue gas treatment

A large portfolio of processes





Dry/Semi-dry system: **SecoLAB**® – **VapoLAB**®







SCR DeNOx: CataLAB®

Wet system: **GraniLAB**®





VapoLAB®: an innovative high performance dry system developed and patented by LAB

> 25 LINES BUILT IN THE LAST 7 YEARS

VapoLAB® is a conditioned dry sorption process comprising 3 steps:

Flue gas cooling

A steam generator / water heater is located in the flue gas ducts upstream the LAB-loop reactor and bag house filter

Residues reactivation

The generated steam is put in contact with the recirculated unused reagent in the ActiLAB® reactor boosting the reagent activity

Residues recycling

Reactivated residues are reinjected in the LABLoop® reactor

DEDDINGTON / VIIIdol - OK	Z X 10 tpii
LEUNA / MVV Umwelt - GE	2 x 25 tph
WILTON / Suez – UK	2 x 31 tph
SHROPSHIRE / Veolia - UK	1 x 12 tph
HELSINKI / Vantaan Energia Ov – FI	2 x 20 tph

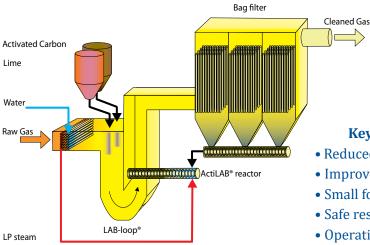
2 v 18 tnh

3 x 3 tph

REDDINGTON / Viridor - IIK

BRIVE / Syctom 19 - FR

TEESSIDE / Sita - UK 2 x 10 tph



Key benefits of VapoLAB®

- Reduced operating cost (low stoichiometric ratio)
- Improved energy recovery
- Small footprint
- Safe respect of emission limits
- Operation with quick or hydrated lime





For over sixty years LAB has been designing and building **turnkey Flue Gas Cleaning (FGC)** covering three main activities: **Waste**, **Power / Biomass** and **Marine Industry**.

Offering state-of-the-art turnkey solutions, LAB has joined the Environment Division of **CNIM** in 2001. **200** highly skilled specialists & engineers work all over the world, and LAB is **ISO** and **OHSAS** quality certified.

LAB devotes considerable efforts in **R&D** offering the complete portofolio of advanced **Flue Gas Cleaning (FGC)** systems from dry to semi-dry and wet technologies including catalytic systems and condensation units, thanks to numerous patents.

LAB **Air Pollution Control (APC)** expertise is backed up by more than **400 lines in Waste to Energy** application being **number 1 in Europe** for the Flue Gas Treatment with more than **20 % of the market share**.

LAB is very active in the **most stringent countries** like Scandinavia, Switzerland, the Netherlands and well implemented in large countries like Germany, France, and UK.

Waste-to-Energy lines fitted with LAB FGC represent an equivalent of waste coming from more than **150 Million** inhabitants.

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