



*BIOMASS AND
WASTE-TO-ENERGY
TECHNOLOGY*



VOMM FLAT TRAVELLING GRATE KILN

VOMM has developed its own thermal valorisation solution for solid biomasses or waste management. Solid material is distributed over the **Flat Travelling Grate** and goes forward in the **Kiln** in controlled conditions.

Flat Travelling Grate mechanism is extremely

reliable and proven. It is suitable for solid material having a wide range of moisture and ash content.

Solid materials can be pre-dried using VOMM Turbo-Dryer Ecologist as in the case of sludge or other wet waste, if and when necessary.

HOW IT WORKS

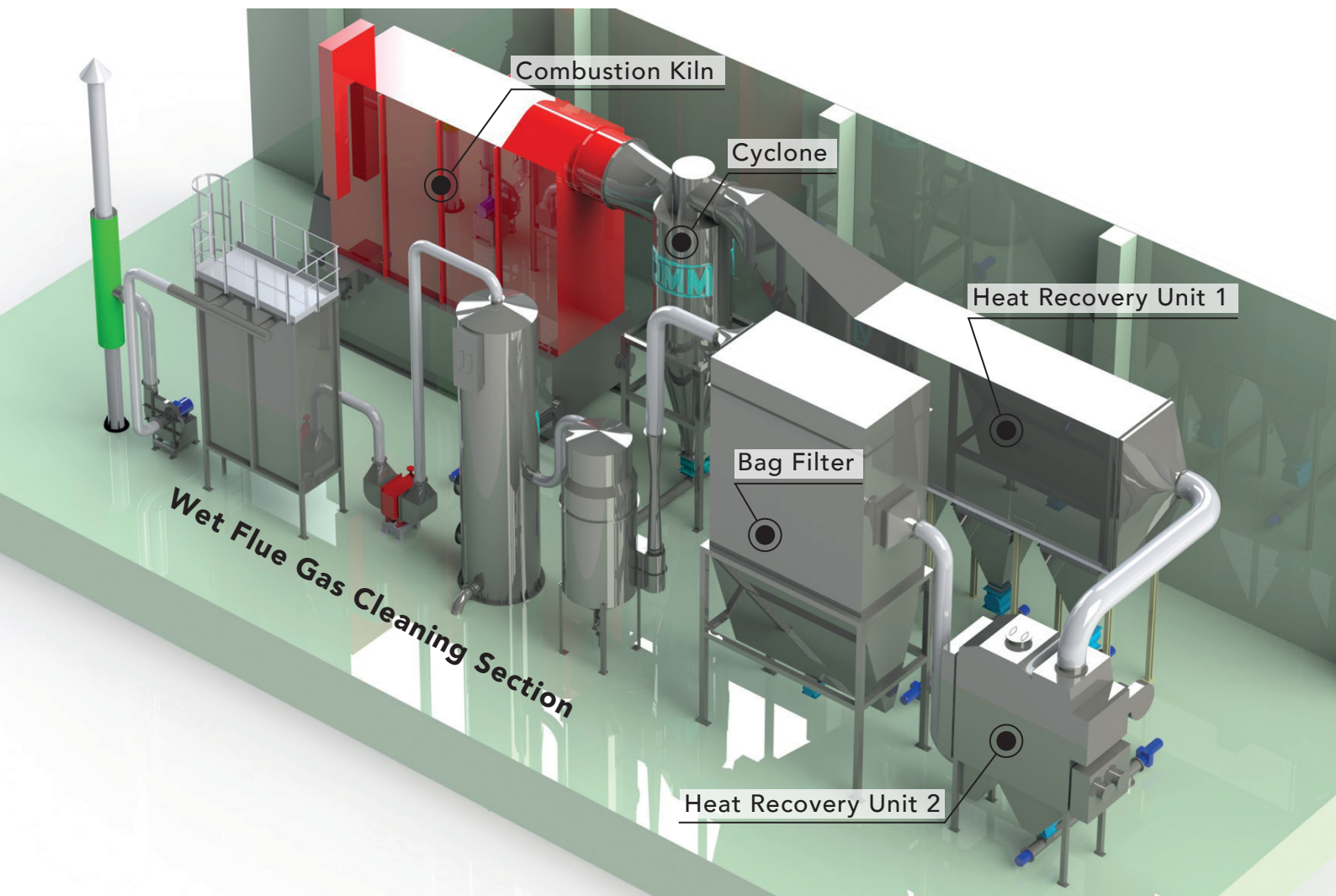
Solid material is continuously fed to the kiln, creating a thin layer of material, few centimetres thick: grate speed modulates layer thickness.

Combustion air is injected into the kiln, mainly as underfire air (below the grate), to feed the flame above. The remaining portion is overfire air, making combustion extremely efficient with little excess air.

The ash is mainly evacuated on the opposite side as **bottom ash**.

The production of **fly ash** is very low, limiting the fouling and wearing of downstream equipment. Finally, wet flue gas cleaning section completes VOMM system, reducing the costs of reagents and effluents.

Dry cleaning solution is available too.



SLUDGE DRYING AND THERMAL VALORISATION SYSTEMS

VOMM system is the eco-friendly solution for sewage or industrial sludges, providing an efficient, reliable and safe thermal-valorisation solution.

This is possible by combining the extremely performant, safe and proven sludge VOMM

Turbo-Dryer Ecologist with the robust, simple and efficient VOMM Flat Travelling Grate Kiln.

As a final result, huge quantity of dewatered sludge is transformed into a small quantity of ash (approx. 14 times reduction) without any use of additional fuels (fossil fuel, biogas...).



ADVANTAGES OF VOMM SYSTEMS

- Flexible two-stage combined system with drying and thermal valorisation;
- No water burning;
- Suitable for any solid fuel like biomass, sludge, RDF or SRF (Solid Recovered Fuel);
- Thermal self-sustaining;
- Any consistency (solid, slurry, liquid);
- Wide range of plant capacities;
- Customized footprint for existing building with reduced height;
- Continuous operation 24 h/day, 7 d/week with a high plant availability;
- Variable LCV admitted;
- No sand addition;
- Small amount of ash evacuation
- Minimum cost for reagents and effluents

COMPANY AT A GLANCE

- Over 50 international patents
- Over 50 year experience
- Over 600 projects worldwide

OUR SERVICES

VOMM provides the Customer with a complete range of services to assist him in any phase of his project.

In particular:

- Feasibility studies;
- Preliminary studies;
- Basic and Detail Engineering;
- Manufacturing and Construction;
- Installation, Commissioning and Start-up;
- After sales assistance up to full service contracts including plant O&M.

CERTIFICATIONS



ISO 9001:2015

ISO 14001:2015

ISO 45001:2015

CQOP SOA
CONSTRUTTORI QUALIFICATI OPERE PUBBLICHE

EAC



VOMM

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