



DKL's temadag og årsmøde 2025

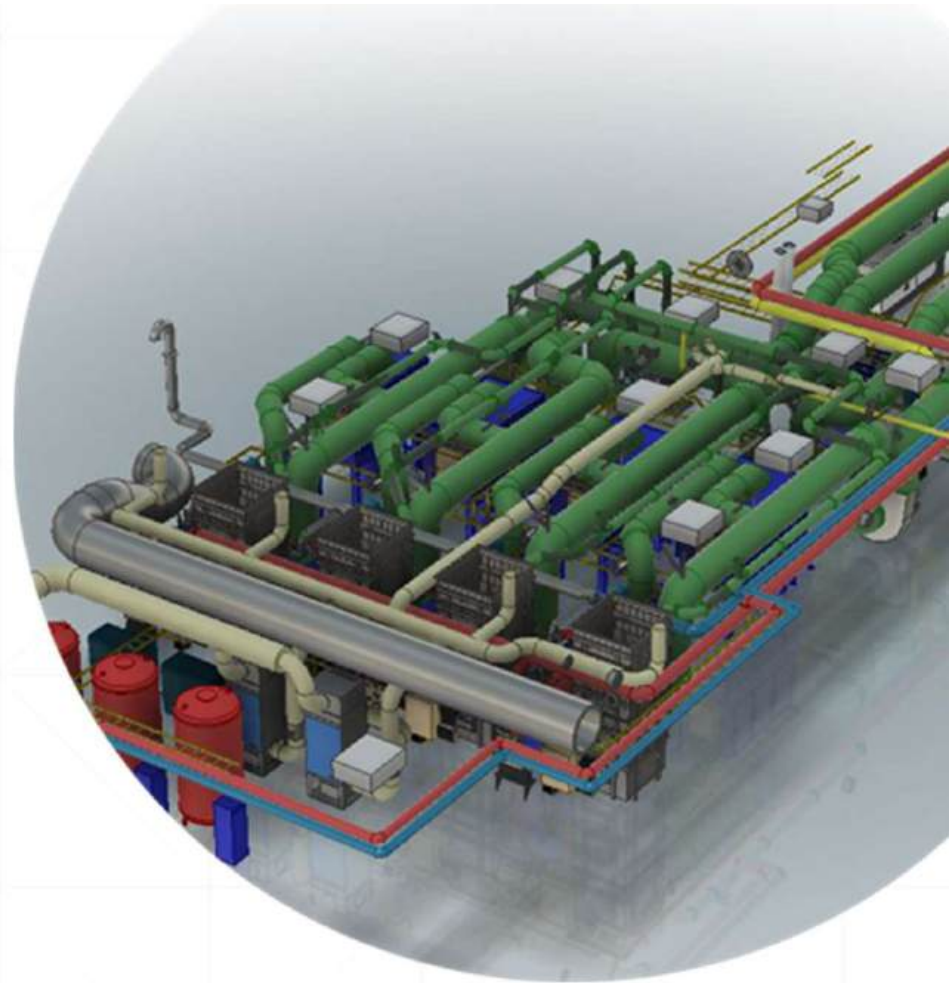
Introducing us

Lars Eriksson

- CEO

Jonas Malmkvist

- Sales & Marketing
- Business Developer



Electric ovens and their history



In 2013, the electric oven in Kiruna / Sweden was dismantled

ABB/ASEA manufactured electric cremation ovens as early as 1933



When can problems arise during a cremation?

- When the oven is not hot enough
- When the coffin and body have low energy content
- Electric ovens take a long time to get the temperature up
- A flame from oil/gas is quick to add heat
- How do we deal with these difficult cremations?
- Cremation process will be longer– Environmental values may suffer
- All crematorium have different conditions



Are all electrical cremation ovens the same?

- Manufacturers have focused on the domestic market
- There is a great difference between how cremation is done in different countries
- MITAB has developed an electric furnace adapted for the Scandinavian market

Advantages of electric ovens

- Reduced environmental impact
- Lower operating costs
- Increased service life of masonry
- Lower noise level in the furnace room

MITAB History

- Mitab is located in Forsbacka outside Gävle. About 150 km north of Stockholm.
- Mitab was founded in the early 70s, and was then a supplier of mechanical services to the steel industry.
- Manufacturer and supplier of electric heating elements.
- Developing a furnace with the concept "MITAB DYS I EBK"
- Silkeborg in Denmark was built in 1993.
- Now the business is switching to only supplying cremation equipment.



MITABS facilities

Mitab currently has 56 plants in the Nordic region.

33 in Sweden

14 in Norway

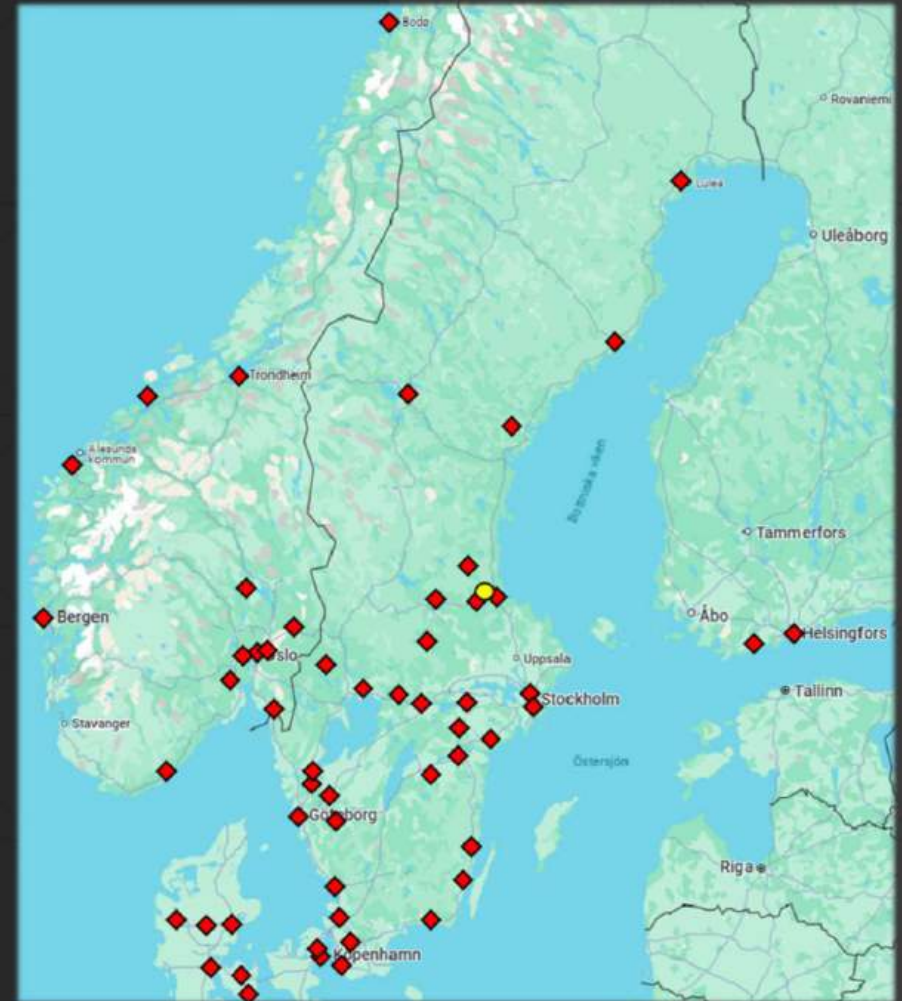
7 in Denmark

2 in Finland

Facilities under construction:

Västerås – 2 ovens with cleaning filter

Uppsala 3 ovens with cleaning filter



MITAB today

- Mitab currently has 20 employees.
- Mitab performs with its own resources:
 - -Construction.
 - -Design and consultancy.
 - -Manufacture.
 - - Spare parts keeping.
 - - Service, maintenance and repairs for our customers.
- Since 2 April 2025, Mitab has been owned by the Tegnion Group. This will provide long-term stability and security for the future.



House of Teqnion

Acquired 2024 or earlier

Acquired 2025



Availability & Support

- Fast support by phone.
- Live online connection with crematoria.
- Training of the staff of the crematorium.



Availability & Service

- Accessibility is very important.
- Complete service organization.
- Over the years, Mitab has developed an organization for regular service and for carrying out repairs at short notice for our customers.
- 56 facilities Scandinavia creates opportunities for accessibility



development

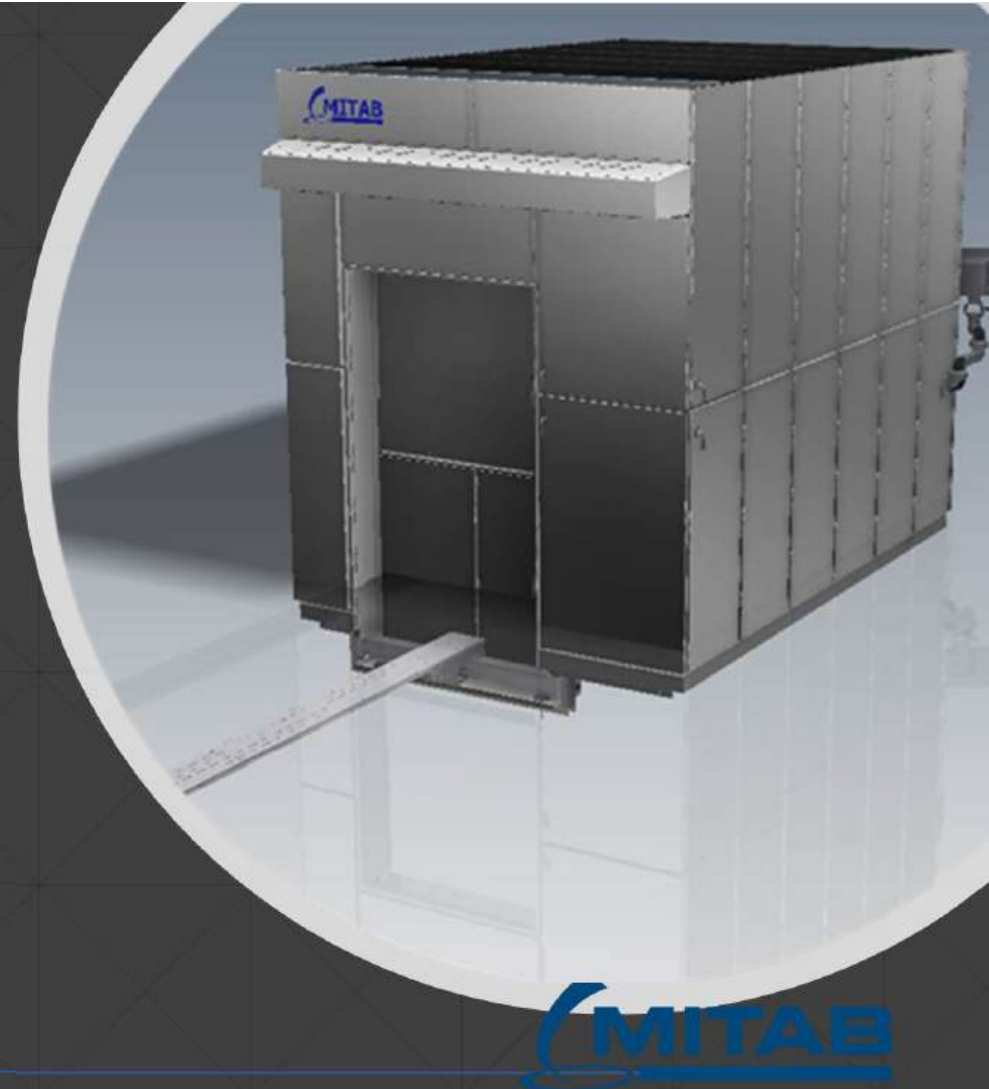
MITAB Electric oven

- 2020 – The Nordic market begins to demand electric crematorium ovens
- 2025 - The oven is currently under installation
- First cremation expected in November 2025



Design MKR24EH

- Design like a conventional oven.
L = 3940 mm (+100 mm).
- W = 2670 mm (+450 mm).
- H = 3270 mm (+50 mm).
- Brushed stainless steel plates is standard.



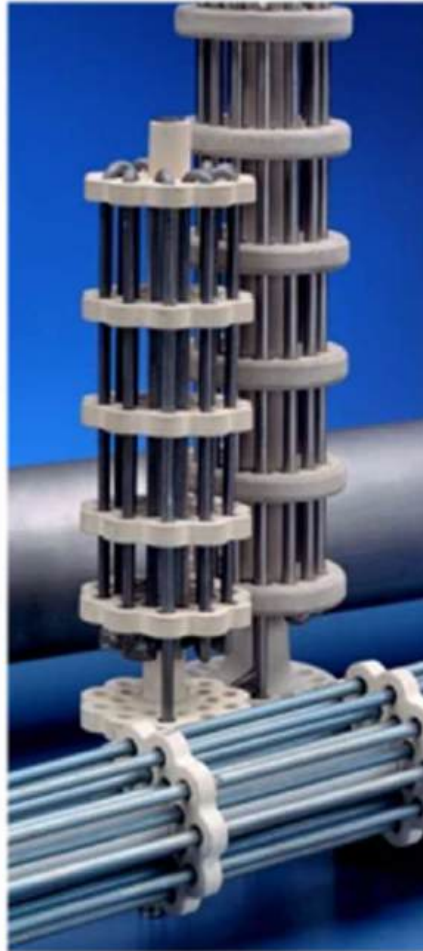
Electric - hybrid MKR24EH

- Pure electric oven
- Electric furnace and combustion subsidy with alternative fuel such as "oil"/RME/HVO/biogas in HBK
- Installed heating power 136kW divided into 8 radiators.
- The power of the elements is regulated via individual thyristor controls.
- The working temperature of the electric radiators is up to 1200°C.
- Mitab has chosen the supplier Kanthal as a partner and their well-proven standard component Tubotahl.
- The elements are mounted in the oven masonry with a high content of Silicon Carbide. High heat conduction. In this way, the elements are protected from contact damage and from flue gases.

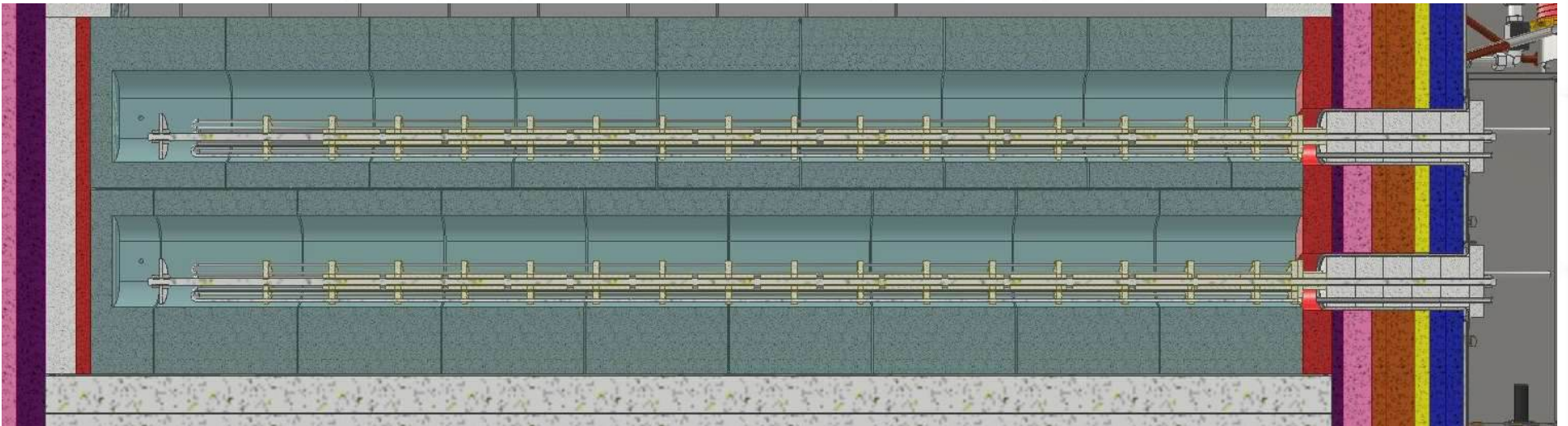


Radiators / heating elements

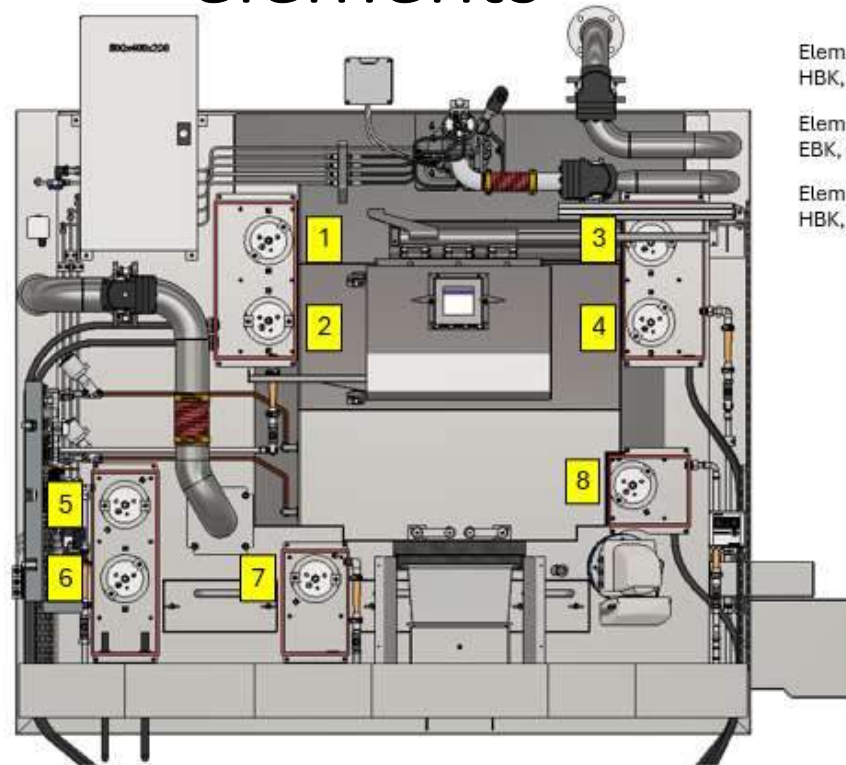
Kanthal (Tubothal®).



Heating elements



Radiators / heating elements



Element 1 - 4
HBK, ca 18 kW/element

Element 5 - 6
EBK, ca 18 kW/element

Element 7 - 8
HBK, ca 14 kW/element

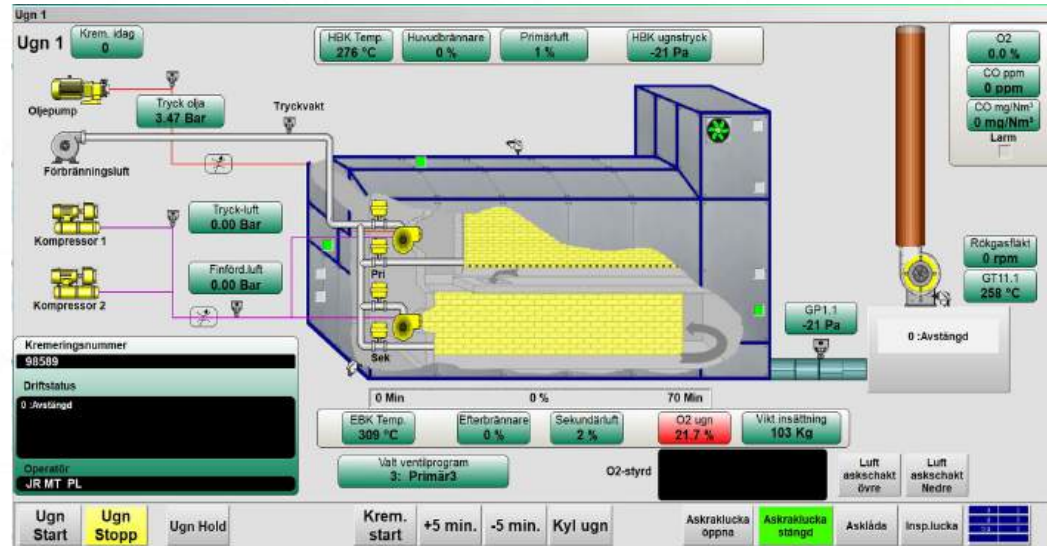
Data

- Estimated electricity consumption/cremation: < 200kW
- Estimated cremation time: 78 min
- Heating from cold state, estimated to: 36 h
- Time for warming up after a warm night: 5 h
- Each element contains a thermal sensor for temperature monitoring.
- The electrical output to the radiators is regulated based on the current temperature in the main combustion chamber and afterburner.
- In this project, the agreed temperatures are:
Main combustion chamber: 650°C.
Secondary combustion chamber: 750°C.



MITAMATIC III

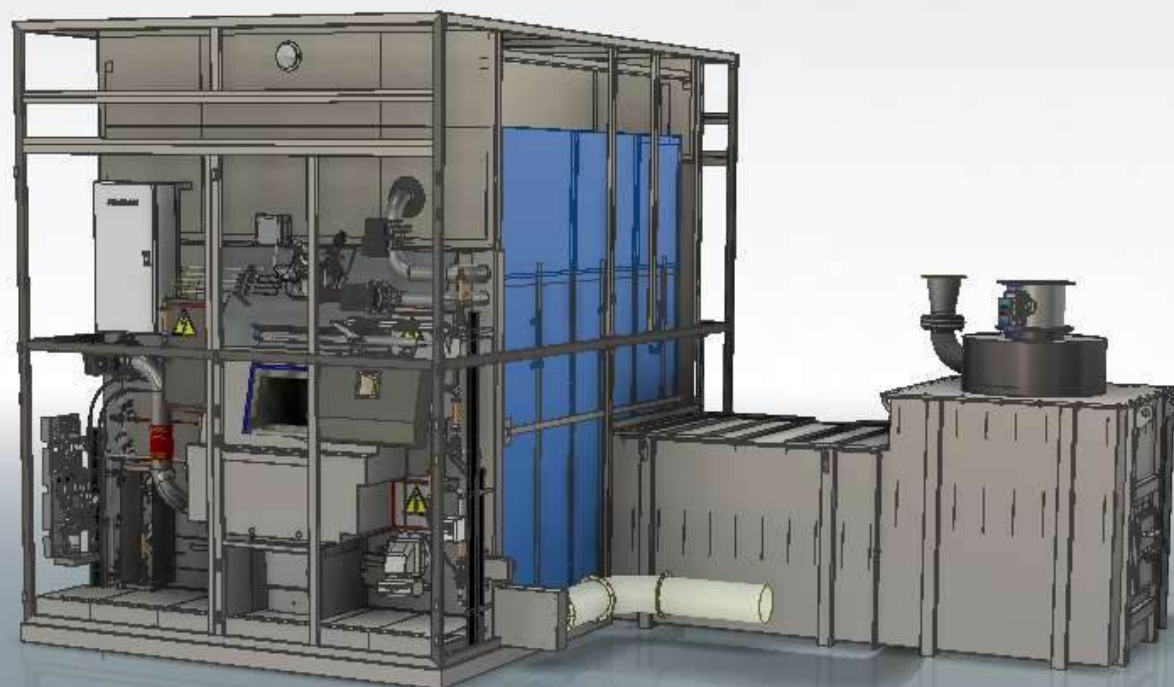
- Advanced control system with several built-in functions.
- Weighing for the adaptation of primary air inputs.
- Overload capabilities.
- Connected functions.
- Dynamic O2 excess.
- Reduced monitoring.
- Increased capacity.
- Reduced energy consumption.
- Improved environment.

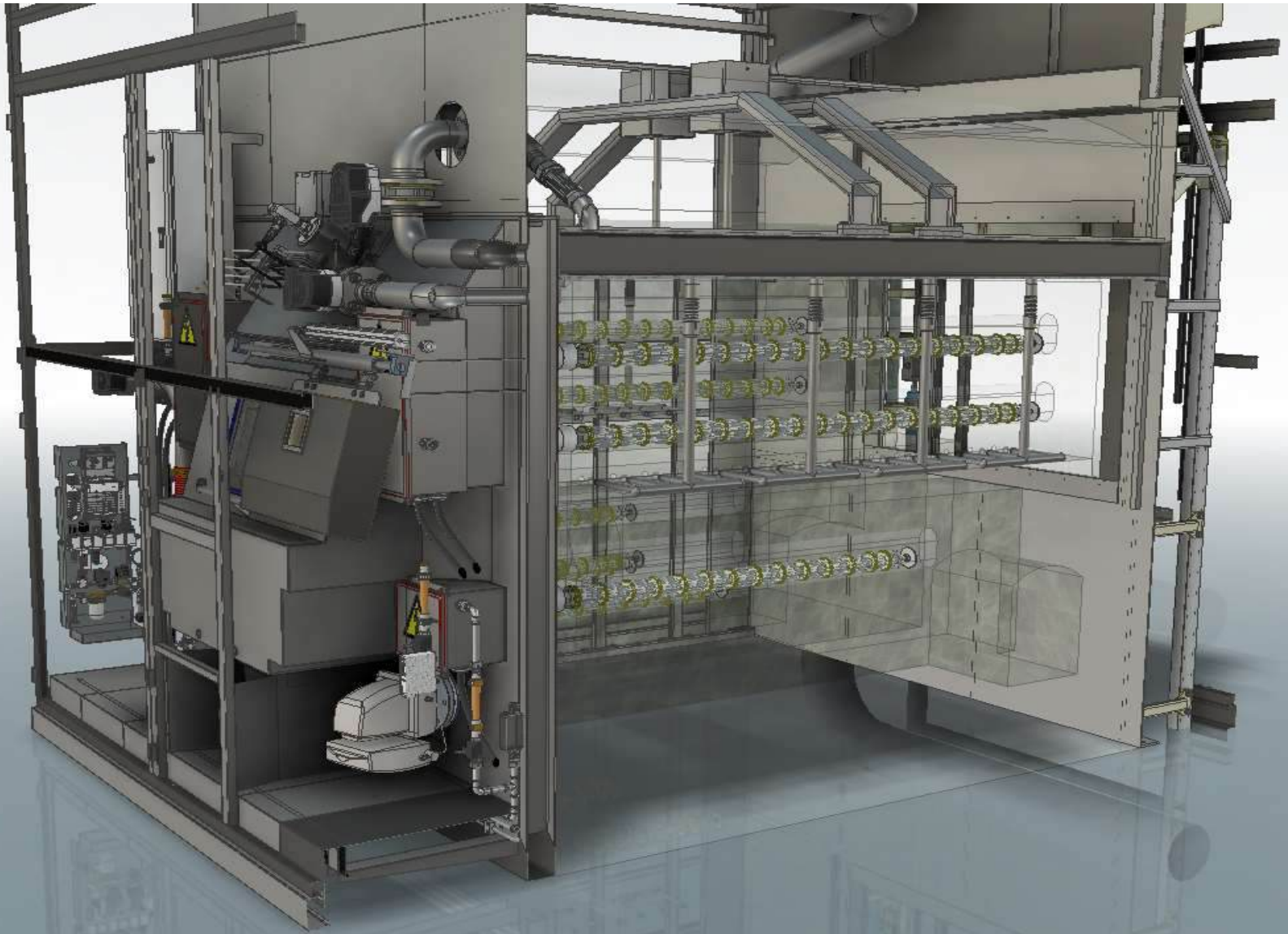


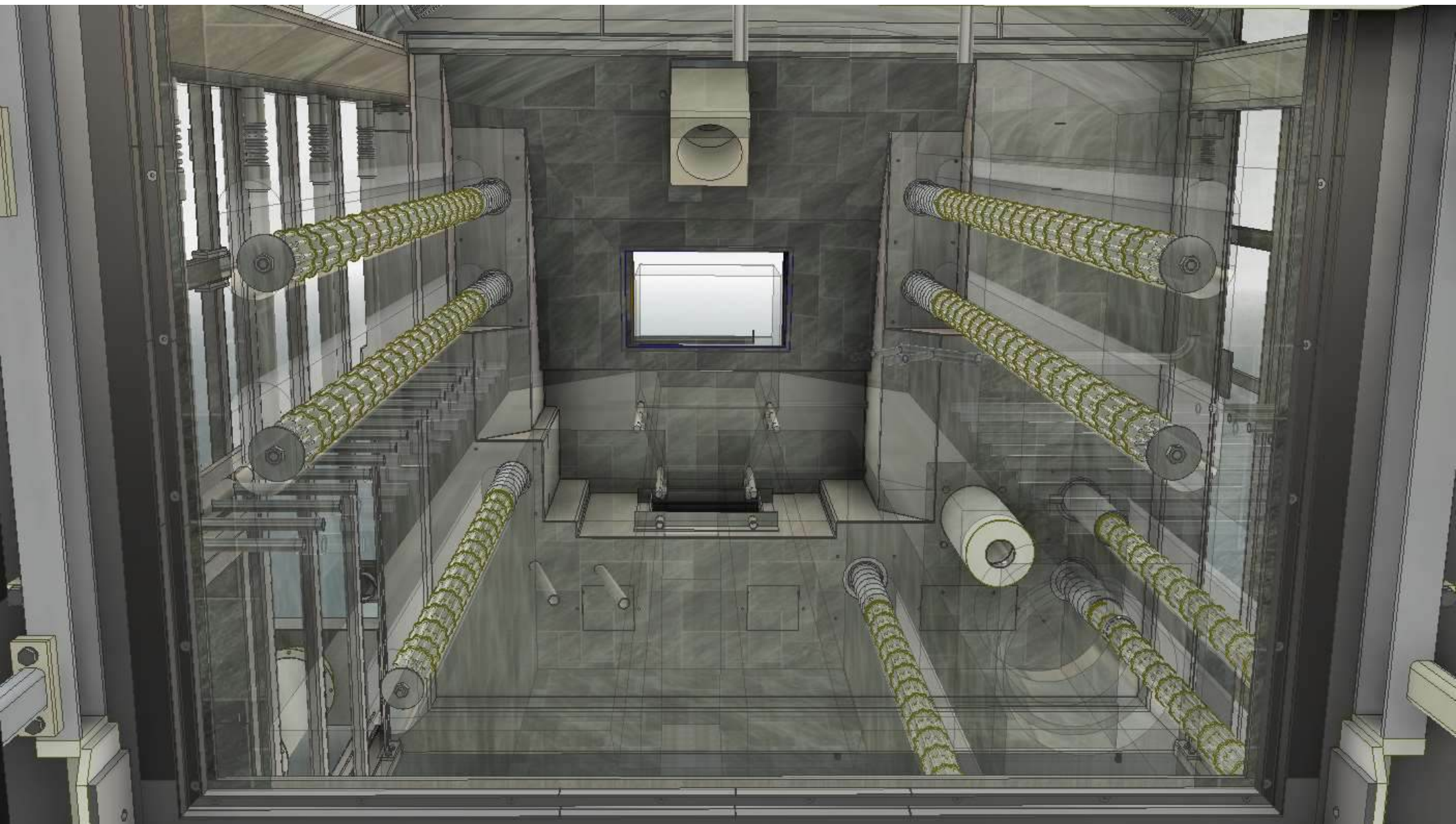
Service and maintenance Electric Hybrid Oven MKR24EH

- Maintenance frequency as an oil/gas furnace.
- Two service visits/year. One of the service visits with a cold oven.
- An even furnace temperature contributes to increased service life of masonry.
- The estimated lifespan of the electric elements is about 8000 cremations.













**Thank you for
your attention
Welcome with
questions and
concerns**