



A@TELLER-REISS-DE

The medium-size solution for demanding applications.

- **Ideally suited to smaller crematoria where the filter system will handle up to 1000 cremations per year.**
- **Small footprint means that only a small floor area is required.**
- **Fixed reagent bed is maintenance-free, and typically requires changing annually or six-monthly, depending upon usage.**
- **The fixed-bed filter can operate outdoors.**

The hot flue gasses pass from the cremator (01) to the gas cooler (02) via either an underground canal or overhead flue duct. The gas cooler (02) incorporates three sections, comprising two water cooling circuits and an air section which is used to pre-heat the combustion air supplied to the cremator in order to improve its operational efficiency. The water cooling circuits are connected to a back-cooler (03) which is mounted outdoors. The cooled gasses then pass through the adsorbent chamber (04) where contaminants are removed, and the clean gas stream then flows through the induced draught fan (05) to leave the crematory via the chimney.

Not illustrated for the sake of clarity is the bypass (either an underground canal or conventional flue duct) which will operate automatically in the event that the gas cooler fails. This allows an ongoing cremation to be completed.

The water cooling circuit may be intercepted with an additional heat exchanger to recover energy.

The level of use of the cremator will dictate the manner in which the adsorbent is replaced. Either the entire quantity may be replaced, for example, annually, or smaller quantities may be periodically changed. Because the flow of gas is from bottom to top of the chamber, the most contaminated adsorbent will reside at the bottom of the chamber where it may be removed by gravity into a collection bin.

Where available headroom so dictates the collection bin beneath the adsorbent chamber may be dispensed with. A screw conveyor may be used instead to lift removed adsorbent into the collection bin which may be placed outside the building.

High Quality Cremation Systems.

