



TYPE FB-H
Fixed-bed horizontal filter
with gas cooler

The medium-size solution for demanding applications.

- **Ideally suited to smaller crematoria where the filter system will handle up to 1000 cremations per year.**
- **Low profile means that it may be concealed behind low-cost structures (e.g. walls, fences, roof-top parapets). There is no need to incorporate a roof structure.**
- **The fixed-bed filter can operate outdoors.**
- **Fixed reagent bed is maintenance-free, and typically requires changing annually or six-monthly, depending upon usage.**

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) comprises two water cooling circuits and one combustion air pre-heater section which improves the efficiency of the cremator. 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, for example to heat the crematorium buildings.

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.

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 absorbent into the collection bin which may be placed outside the building.

High Quality Cremation Systems.

