HoTbox™
Integration Examples

HoTbox™ Demonstrator

The HoTbox™ Demonstrator is a complete solid oxide fuel cell (SOFC) demonstration system with a 500 W HoTbox™ as its core. The system runs on natural gas, and the SOFConnex™ based stack operates at 750°C. This complete system is fully autonomous with a lead-acid battery for grid-independent start-up, UPS functionality, and for surge coverage. The system also includes an integrated panel personal computer with customized software, control system, low temperature insulation, and packaging. It has also been designed for easy stack accessibility for maintenance.

Benefits

- Complete demonstration system
- Access to the HoTbox™ in a demonstration environment
- Self-sustaining operation
- No water required
- Easy HoTbox™ accessibility for maintenance
- Microprocessor for Windows-independent operation

Use

The HoTbox™ Demonstrator engineering concept is available as basis for integrators interested to develop their own complete SOFC system. It operates on desulphurized natural gas from the grid.

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The Asterix System

Dantherm Power has integrated the HoTbox™ into their proprietary micro-Combined Heat and Power (CHP) system. The densly integrated functionalities of the HoTbox™ allow the system to be very compact, important criteria for the installation in several markets.

Specifications

- Dimensions : 600 mm X 600 mm X 1000 mm
- Nominal Power : 500 - 1000 W DC
- Fuel : Desulphurized natural gas

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