

EBSILON®Professional Add-On Modules

EbsBoiler – The boiler in every detail –

EbsBoiler includes components for modeling the boiler geometry. Map a realistic boiler, model specific boiler types, and determine the contamination level of individual heating surfaces.

EbsBoiler structural components:

- Flue gas zone
- Reactor zone
- Primary heating area
- Secondary heating area

EbsSolar – Making the sun calculable –

EbsSolar includes components for the detailed design of a solar field and is suitable for site and technology comparisons as well as for annual yield calculations including thermal storage. The material library includes typical heat transfer media such as thermal oil, molten salt and water/steam.

EbsSolar components:

- Solar collector
(parabolic troughs/linear fresnel type)
- Distributing header
- Collecting header

OEM-GTLib – Gas turbine library –

OEM-GTLib, developed and distributed by ENEXSA GmbH (formerly VTU), contains gas turbine models based on manufacturer data.

Gas turbines by renowned manufactures, including:

- Siemens
- MAN
- Alstom
- Solar Turbines
- General Electric
- Hitachi
- Rolls Royce
- Centrax

EbsOptimize – Optimized design –

EbsOptimize automates the tedious search for maximum performance system parameters by optimizing target parameters with variation of multiple input parameters.

- Freely customizable target and input parameters
- Genetic algorithm
- Usable as an EbsScript function

EbsValidate – Offline data validation –

EbsValidate calculates the statistically most probable system condition by improving the measuring values of redundant measuring stations in such a way that all component equations are met and the error square sum of measuring values is minimized.

- Usage for acceptance inspections and to identify malfunctions in structural components and the measuring system
- Integrated quick validation and validation according to VDI 2048

EbsHTML – System model in HTML format –

With EbsHTML you can output the system circuitry including the simulation results in HTML format. The simulation results for components and pipelines are displayed in a tool tip during mouse-over. Users are free to decide which results to display.

- Display in all conventional Internet browsers
- HTML model shows different load scenarios and macros
- Suitable for presentation at customer sites without a EBSILON®Professional license

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EbsScript – Script language for EBSILON®Professional –

The fully integrated PASCAL-based script language allows programming of all processes and individual components within EBSILON®-*Professional*, with full access to all model data, external text, MS Excel files and all interfaces..

- User-friendly editor with browser-supported data entry
- Compiler with syntax check
- Integrated script administration
- Console window for sequence control and output
- Programming options for user-specific components (component: kernel scripting)
- Usage for automated processing of case studies, optimizations etc.

EbsOpen – Integration in your software infrastructure –

EbsOpen is a comprehensive COM class library that offers access to all application, model, and component data. This makes it a powerful tool for a full range of calculations, ranging from simulation, validation, and what-if-scenarios to parameter studies and automated re-calculation in power plant operations.

- Over 200 classes and 3,500 methods and properties
- Suitable for integration into all common automation and programming environments such as Visual Studio.net or the VBA environment of MS Office products

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