



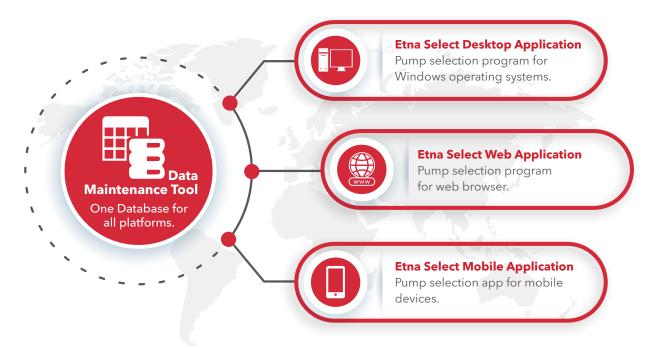


Etna Select is the latest development for the computer supported **selection and configuration of centrifugal pumps** by VSX - VOGEL SOFTWARE. The extensive program, with which almost every design and construction variation can be displayed, reflects the companies nearly 25 years of experience in the implementation of such solutions. The new version particularly shines when it comes to its **intuitive operating concept** as well as the **increased performance** and offers a wide range of additional functionalities. With its integrated price calculation as well as offer and project functionalities, the software serves as a central part of the sales process.

Etna Select has been especially designed to meet the requirements of modern IT environments. **Internet security** and **flexible authorization models** once more played an important role in the development process.

MULTI-PLATFORM DESIGN

When it comes to data access and work on inquires and offers, the **unique multi-platform design** offers the ideal solution for various situations. The web-based version for internet and intranet services and the desktop-based version for Windows operating systems are supplemented by a version which has been optimized for the use on mobile devices. This concept as a whole is unique on the market.



The application uses the **same database** on all available platforms. Thanks to the intelligent database system, all product-specific data can be visualized and used for the sales process. It is also possible to integrate Etna Select without a personalized interface in web shops and configuration programs, via corresponding interfaces.



MANY WAYS LEAD TO THE RIGHT PUMP

Users can choose between the hydraulic selection, the direct product selection and optionally the search for the article number or the description. New in Etna Select is the **QuickSearch**, right on the main screen, which enables users to find the right pumps faster. The already fast selection process, streamlined by the pump selection and configuration, is even more accelerated.

A few steps without an extensive query dialog lead to a qualified duty point-based pump selection. Your sales specialists will enjoy spending their saved time with their customers just as much as all other users, who simply reach their goal faster.

DETAILED CONFIGURATION WITH MANY EXTENSION POSSIBILITIES

Unique in Etna Select is the **combination of PumpSelector and PumpConfigurator**. As a result, users always have a complete overview of the various options of all pumps that match the operating data, and are able to reach their target faster with fewer steps. The effect of the selected components on the pump curves is immediately visualized, without having to switch between different windows. In the same way, a selection by price or total life cycle costs can be smoothly realized even for configurable products.

The basic program can also be extended by a large range of additional modules in order to enable qualified sizing and configuration of special pump designs, such as magnetic pumps, turbine pumps or side channel pumps.

THE PERFECT TOOL FOR DIFFERENT APPLICATIONS

The software solution can be easily integrated into an existing IT environment by using special interfaces. This allows the application to be embedded in an existing environment in order to link the Etna Select data with customer and sales-specific data.

Due to the extensive functionality of Etna Select, the program is suitable for a wide range of applications. Whether pump manufacturers or operators, the software is a highly efficient tool for both target groups when it comes to handling all sizing and sales tasks.



VARIOUS LICENSE MODELS PROVIDE THE RIGHT SYSTEM FOR EVERY PURPOSE

In order to use the program, it is necessary to purchase a server license for Etna Select Web or a certain number of user licenses for Etna Select Desktop. In addition, it is necessary to license the number of pump records which are supposed to be included in the database.

In addition to the standard licensing model for Etna Select, a service-based subscription model (Etna Select as a Service, in short: SaaS) is also available. SaaS gives the customer the opportunity to use the program for a certain amount of time. The service package is the ideal software and service solution including all licenses, software maintenance and support as well as hosting.

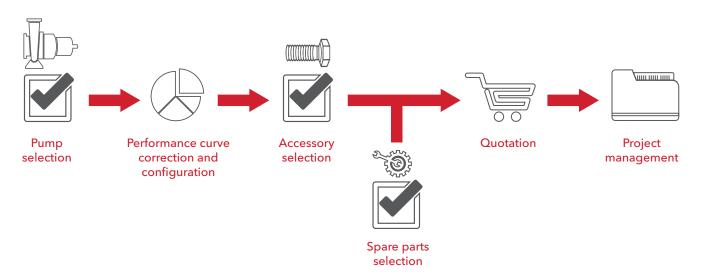
AT A GLANCE:

- + New intuitive operating concept
- + One database for all platforms (desktop, web and mobile version, webservice)
- + Same user interface for web and desktop version
- + Complete integration of PumpSelector and PumpConfigurator
- + QuickSearch for an even faster selection via duty point
- + Increased performance
- + Multilingual interface
- + Flexible user rights system
- + Maximum Internet security
- + Efficient interfaces





FROM PUMP SELECTION TO PROJECTS





PUMP SELECTION

The user specific data stored in the database is linked to predefined selection parameters and calculation methods in order to select suitable pumps according to the user's specification.

To select the right pump, the user can choose between various pump selecti on procedures.

- 1. Hydraulic selection via duty point
- 2. Direct product selection via series description (Product Selection Browser)
- 3. QuickSelector: fast, qualified hydraulic selection directly from the main screen based on Q and H specification
- **4.** Product search by descripti on or item number (additi onal module)
- 5. Pump exchange to replace an existing pump (additional module)

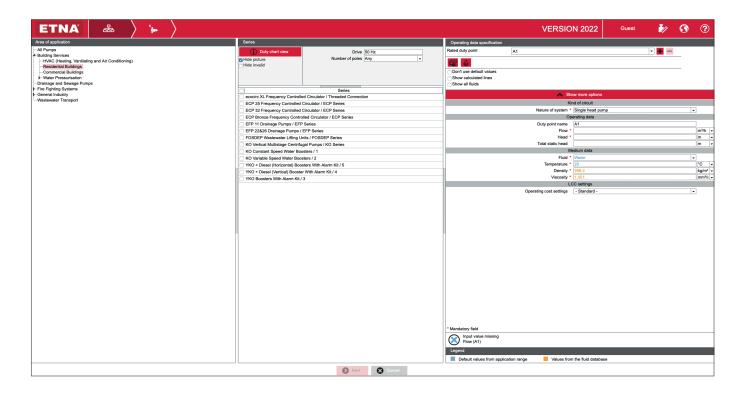
NEW

- + Quick search by specifying H and Q on the main screen
- + Additi onal module for pump comparison



HYDRAULIC SELECTION VIA DUTY POINT

The hydraulic selection allows the sizing and configuration of pumps according to the operating conditions such as area of application, fluid, flow rate, and head. Etna Select also supports the selection of **several duty points**, even for different fluids. The sizing is possible as single pump, as parallel circuit or series connection of several pumps of the same pump type. An additional module enables the sizing of different pumps in parallel circuit.

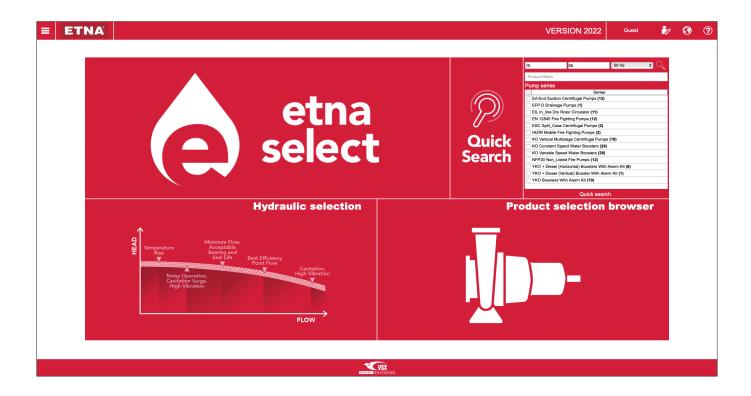


The definition of application limits and search criteria can be directly compared with the product properties of the individual components. Predefined input masks simplify the sizing of special pumping systems, such as booster sets, borehole pumps or process pumps.



QUICKSEARCH VIA DUTY POINT INPUT

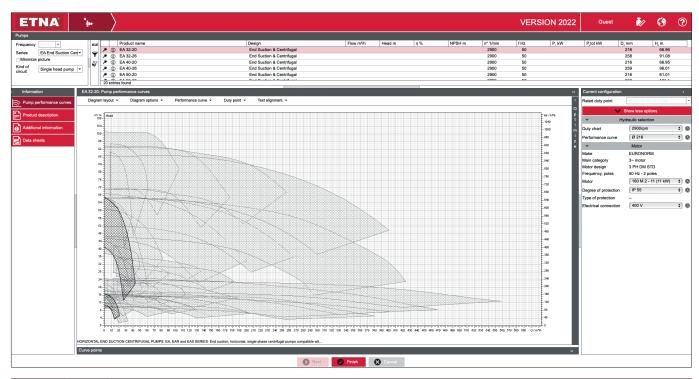
New in Etna Select is the possibility of sizing pumps quick and simple by entering the desired duty point right on the main screen. After entering the Q-H value as well as the rated frequency, the relevant series are already limited and relevant keywords are offered for further filtering. The relevant pump records are displayed without any intermediate steps, with the same functionalities as in the hydraulic selection.

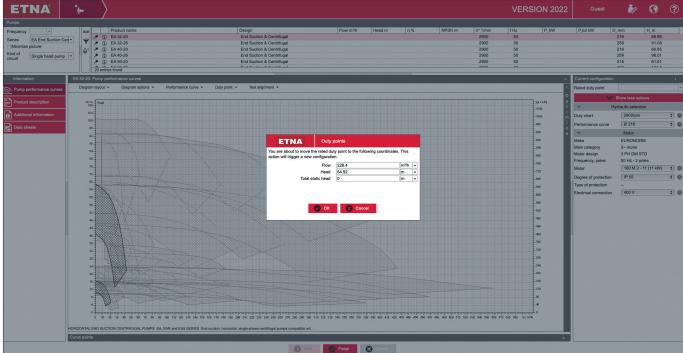




DIRECT PRODUCT SELECTION OF PUMP TYPES VIA SERIES DESCRIPTION (PRODUCT SELECTION BROWSER)

Available in the standard package is the direct pump selection via series description and pump type. Precondition is the corresponding product knowledge of the user. After the pump selection, the user has the same functionalities as in the hydraulic selection. Naturally it is also possible to define a duty point later on in order to execute configurations for specific operating conditions.





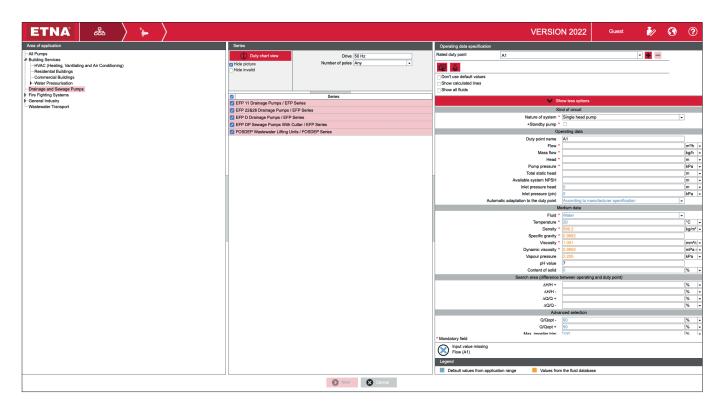


PRODUCT SEARCH VIA PRODUCT DESCRIPTION OR ITEM NUMBER (ADDITIONAL MODULE)

If the user knows the product description or item number, this is also a possible search method. The search results are also displayed in a table. After the selection process the user has the same functionalities as in the hydraulic selection.

ALSO INTERESTING: PUMP COMPARISON

In Etna Select it is possible to directly compare the configuration data of different selection processes of a project. For this purpose, the selected pumps are listed in a table, this makes it easy to recognize similarities and differences. Differences can be visually highlighted if favored.







CURVE CALCULATION AND CONFIGURATION

Following the selection process, all suitable pumps are listed in a table together with their most important properties. Search results can be refined and individually edited with the **sort and filter function**. The configuration options for the selected pump are being neatly shown next to the information section.

The product configuration supports the user in selecting available options. The program independently checks if the given pump data meets the entered criteria. The order of the configurati on work flow within a logical group can be defined by the user. The data is faded out, if an automatic selection of components selected by the program is possible or if the option is not relevant for the pump type. This ensures a clear overview of the available pump components and optimizes the entire process in terms of time.

The pump curves are automati cally calculated by the soft ware to match the respective operating conditions. The desired viscosity conversion method can be selected separately for each duty chart in the database and can also be deactivated, if desired.

The following procedures for highly viscous Newtonian fluids are available in Etna Select:

- Hydraulic Institute (ANSI/HI 9.6.7) of 2010
- Hydraulic Institute 14th Edition
- **Procedure for side-channel pumps** (SIHI publication "Basic Principles for the Design of Centrifugal Pump Installations"; 7th enlarged and revised edition, 2003) (additional module)

The program supports all common procedures for duty point adjustment. The order of the optimization procedures can be adjusted manually. The methods of curve adaption are also applicable to multi-stage pumps.

NEW

- + Calculati on of performance curves for multi-stage pumps with depreciation factor
- + User defined configuration messages according to individually defined conditions
- + Output of configuration warnings on the data sheet via new keyword
- + Selection between different diagram designs



- Impeller trimming, also with special specifications for multi-stage pumps
- Adjustment of speed and calculation of speed performance charts
- Optimizati on of the blade angle for propeller pumps
- Throttling (via orifice diameter or ζ-coefficient)
- Generic curve calculation using a factor with predefined exponents

A new feature in Etna Select is the calculation of duty charts for multi-stage pumps with depreciation factor. This allows the visualization of the efficiency influence with low stages through the factor, without having to separately include the duty chart.

When it comes to speed correction of performance curves based on the affinity laws, there are **different methods for efficiency depreciation.** These can be specified individually for each hydraulic in the database. In the case of automatic optimization, the preferred adaptation method can also be defined in the database or optionally be specified by the user of the selection program.

All data in the information section can be coordinated and provided via the data maintenance tool and offers the user an enormous added value:

- Pumps and Motor Curves
- Detailed product description
- Dimension (incl. drawing)
- Operating costs (two types of calculation)
- Data sheets (additional information through external PDF documents)
- Websites

The names of external documents or the URL to a website, using Etna Select keywords, can be generated dynamically according to the current configuration and the user settings. In this way, it is for example possible to conveniently integrate an external **drawing or document library** into Etna Select.



ALSO INTERESTING: SIZING OF SPECIAL PUMP TYPES AND COMPONENTS

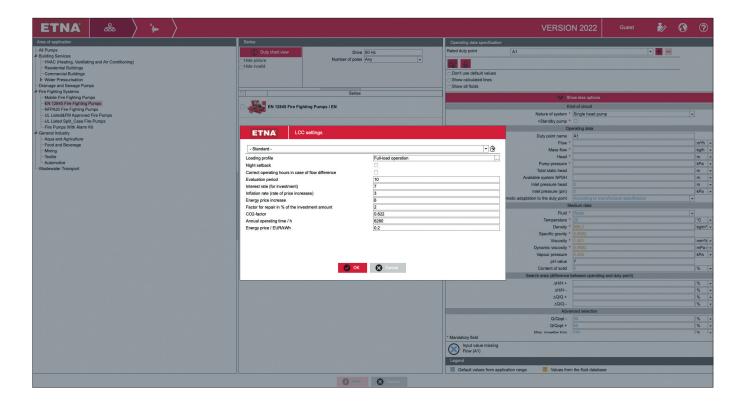
Etna Select offers the user efficient sizing and dimensioning of special pump types, electronical regulated circulators, booster sets, borehole pumps and turbine pumps (additional module). A multitude of predefined components like motors, gears, materials, shaft seals, bearing frames, magnetic drives, frequency converters and coupling guards can be used for the configuration process. The software determines the resulting curve and, if necessary, performs an iterative drive dimensioning (partly additional module).

NEW

- + Sizing of turbine pumps
- + Improvement of motor sizing

ALSO INTERESTING: OPERATING AND LIFE CYCLE COST CALCULATION

Depending on the case, it is possible to use different load profiles, when calculating operating and life cycle cost. The cost comparison of the different solutions is visualized graphically and in tables.





Furthermore, the calculation of the Energy Efficiency Index (EEI) and the Minimum Efficiency Index (MEI), according to the latest EU regulations, is integrated.

In addition, the LCC data of several pumps can be used for comparison, whereby optimum values are also visually emphasized. This gives your sales staff valuable arguments, when it comes to communicating the benefits of pumps with higher purchase costs to the customers.

DATA SHEETS

The data sheets can, with an integrated editor in the data maintenance program, be designed according to the customer's requirements. For each project the language, units and currency can be defined independently from the program settings.

The program also contains standard data sheets for offers, technical data, performance curves and dimensions. By adding external documents such as terms of delivery, the offer package can be enhanced.

NEW

+ Assignment of different diagram designs to data sheet templates

PROJECT DATA EXCHANGE

A considerable amount of time can be saved by sending the created offer including all documents directly by email. Additionally, PDF files can be exported without additional software.

Share projects gives the user the opportunity to share their projects with other people, who are also permitted to edit these projects.

Special interfaces (additional modules) allow the user to integrate project data into third party programs like ERP or CRM systems, which for example enable statistical evaluations.

NEW

- + Etna Select CrmConnector for integration with Microsoft Dynamics CRM (desktop version only)
- + Configurable project export for statistical evaluations



Note	





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