

SABROE Unisab™ III

Integrated systems controller for refrigeration compressors, chillers and heat pumps

Unisab III systems controllers are connectivity hubs that help make sure refrigeration installations have the best possible performance, maximum uptime and lowest possible operating costs.

These important control units are pre-equipped and pre-configured with the connectivity equipment and protocols necessary for monitoring and controlling a wide range of compressors, compressor packages, chillers and heat pumps – as well as using this data for fault-finding and analysis.



Advantages

Benefits

Single, fully integrated control system for use with virtually all types of compressors and chillers	Ensures more effective monitoring, control and diagnostics of a wide range of key refrigeration installations
Easy to integrate into the vast majority of industrial control systems, providing seamless transfer of data between systems	Ensures effective management of important operating data and secures the production process for best performance
Monitoring, control and diagnostics capabilities combined in one compact, integrated unit	Does away with the need for multiple systems, resulting in significant equipment savings
Compressor sequencing and load sharing are possible without additional equipment	Keeps power consumption to a minimum and reduces operating costs
Intuitive, easy-to-use interface, with a consistent “look and feel”	Requires fewer operator skills, resulting in lower training costs



Unisab Event apps are available for both iOS and Android devices



Connectivity

The Unisab III systems controller has normal industry-standard communication ports fitted as standard, and therefore does not require additional communication gateways.

Data can then be made available via any kind of network, where virtually any computer can be used to monitor and operate the Unisab III systems controller.

Functionality

- Service on demand schedule
- Unisab app for smartphone
- Configurable for both screw compressors and reciprocating compressors, with or without variable-speed drive (VSD), and using any refrigerant
- Built-in regulation of suction pressure, water temperature, discharge pressure, etc.
- Limitations on suction pressure, discharge pressure, motor current, etc.
- Logging of operating history and profiles for effective fault-finding and diagnosis
- Email dispatch in case of alarm or shut down.

Retrofit

A wide range of Unisab III retrofit kits are available to provide all the advantages of upgrading a wide range of existing compressors to a modern controls standard for improved performance and control system integration.



Connectivity	Multiple communication ports, including Modbus TCP, Profibus DP and Sequence Bus, as standard
Smartphone app	Available for both iOS and Android devices
Sequencing.	As many as 14 refrigeration compressors (per temperature or pressure system), chillers and heat pumps of different makes and types can be linked in sequence, to ensure effective load sharing and capacity optimisation
Diagnostics.	Detailed operating data documenting 30 shut-down situations
Refrigerants	Pre-loaded with the requisite data about all refrigerants normally used
Operating languages	Multiple languages available as standard, with additional languages as options
Enclosure.	IP54
Ambient temperature	0–55°C
Power supply.	85–250 volt AC, 50–60 Hz
Dimensions (H x W x D)	380 x 300 x 210 mm
Weight	6.5 kg

All information is subject to change without notice.

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