

# Sabroe UniSAB

Integrated systems controller for refrigeration compressors, chillers and heat pumps

UniSAB 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 app available for both iOS and Android devices



## Connectivity

The UniSAB 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 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 shutdown.

## Retrofit

A wide range of UniSAB 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.

Retrofit kits are available for the full legacy of Sabroe, FRICK and STAL compressors – and most competitor compressors.



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|----------------------------------|--|
| 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 shutdown 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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