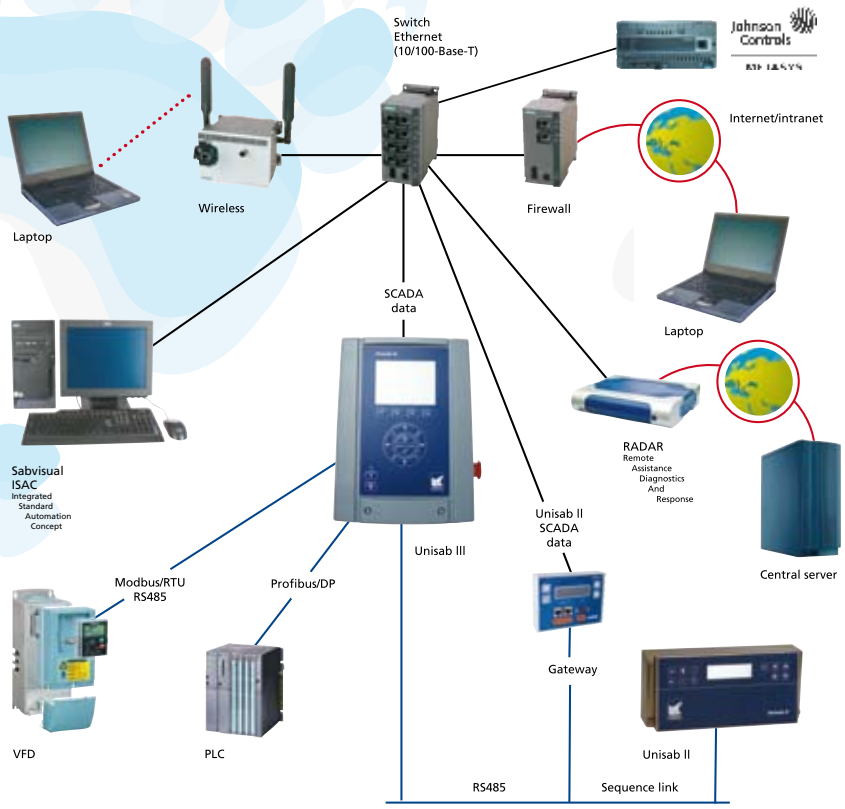
Unisab III refrigeration systems controller – networks with your equipment



Unisab III
refrigeration systems controller
– ultimate connectivity

New generation of controllers

Electronic control systems for refrigeration compressors are now widely accepted as an integrated solution that brings considerable added value – as well as big reductions in operating costs – to any refrigeration system.

The Unisab III refrigeration systems controller, however, is the first of a new generation of extremely versatile control units that take the whole idea of connectivity between compressor equipment and remote monitoring and control units to a completely new level.

Connectivity

Each Unisab III unit features exceptional connectivity via a wide range of communication ports/protocols built in as standard or as options. This makes it easy to integrate the unit into the majority of control systems currently available – and to undertake monitoring, control and diagnostics from virtually any computer workstation, anywhere in the world.

The Unisab III provides safe, effective monitoring, control and diagnostics for both reciprocating and screw compressors as well as chillers – of virtually any make – via the standard, built-in software package. Pre-installed settings make the unit easy to set up for a huge variety of applications and configurations.

Multifunctional links

The Unisab III unit serves as the point of access for operating up to 14 compressors, compressor packages and chillers. It is designed with a straightforward, intuitive interface that almost does away with any need for operating manuals or costly staff training. The benefits of this exceptionally compatible systems interface are manifold. All kinds of monitoring, control and diagnostics procedures can be carried out from any laptop or PC linked to the equipment, either locally or remotely. Web-enabled packages can be supervised, inspected and operated from anywhere in the world, and it is easy to run accurate diagnostics to locate and rectify any problems.

This dramatically extends both the scope and depth of control operations, linking large arrays of refrigeration systems into one integrated, connected network that can be made to run with greater efficiency and with much less need for staff to actually be on site.

Retrofit

Because of its exceptional compatibility even with legacy equipment, the Unisab III can be used to upgrade many types of refrigeration compressors, even from different manufacturers.

SABROE
BY JOHNSON CONTROLS

Unisab III compressor controller

Significant advantages

- Compatible with virtually all types and makes of refrigeration compressor equipment currently available. Also compatible with previous-generation Unisab II controller units.
- Easy to integrate into the vast majority of industrial control systems, with no need for expensive additional equipment.
- One consistent control system for virtually all compressors, featuring an intuitive, easy-to-use interface.
- Compressor sequencing and load sharing are possible without additional equipment.
- Monitoring, control and diagnostics capabilities combined in one compact, integrated design.

Customer benefits

- Makes sure that refrigeration installations have the best possible performance, maximum uptime and lowest possible operating costs.
- Seamless transfer of data between systems ensures effective monitoring, control and diagnostics.
- Consistent "look and feel" for operating and monitoring equipment requires fewer operator skills, resulting in lower training costs.
- Optimised, energy-saving operation of multiple compressors keeps power consumption to a minimum and reduces operating costs.
- A single integrated control solution does away with the need for additional equipment, resulting in significant savings on installation costs.

Technical data

Applications	Monitoring, control and diagnostics of reciprocating compressors, screw compressors and chillers
Connectivity	Multiple communication ports, including Ethernet, Profibus DP and Sequence Bus are available as standard (RS485 for optional protocols)
Sequencing	As many as 14 refrigeration compressors and chillers of different makes and types can be linked in sequence to ensure load sharing and capacity optimisation
Diagnostics	Detailed operating information about 30 shut-down situations can be captured and stored for subsequent analysis
Refrigerants	Includes data about all refrigerants normally used
Languages	Multiple languages are available as standard or options
Display	5.7-inch black-and-white VGA screen
Enclosure	IP54
Ambient temperature	0–55°C
Power supply	85-250 VAC, 50-60 Hz
Dimensions	H x W x D: 380 x 300 x 210 mm
Weight	6.5 kg

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Johnson Controls Denmark ApS · Sabroe Products
Christian X's Vej 201 · 8270 Højbjerg · Denmark
Phone +45 87 36 70 00 · Fax +45 87 36 70 05
www.sabroe.com

Johnson Controls