

Høglund RCC

Refrigeration Compressor Control System

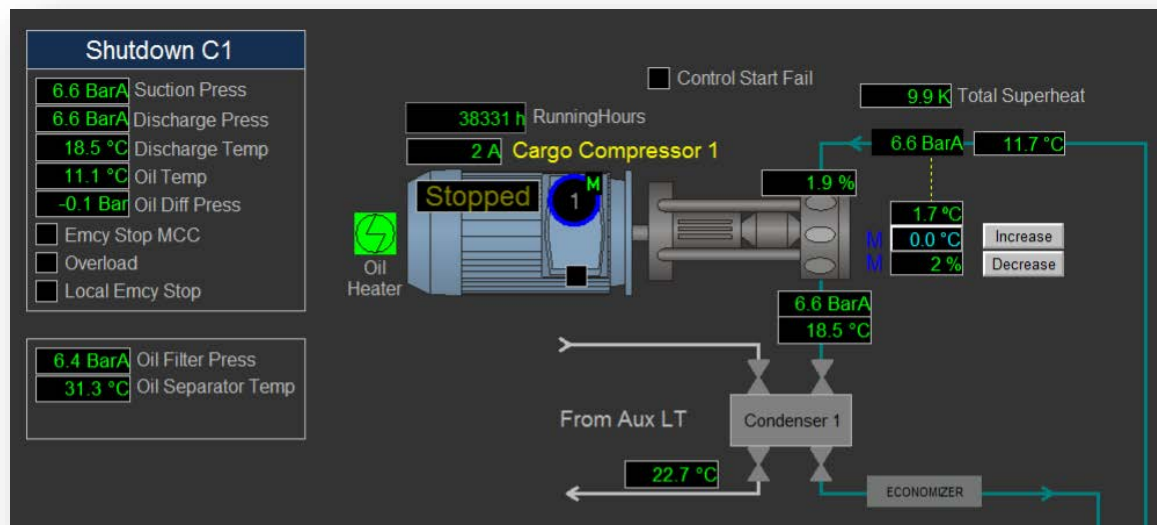
Refrigeration compressor safety and control system. To be installed on new installations or retrofit. Controls rotary vane, screw, centrifugal as well as reciprocating compressors. Integrated safety system shuts down compressor to protect assets and personell. Capacity control can be both conventional slide valve or speed control or a combination. System also controls evaporators in refrigerated spaces as well as in AC units.

Benefits

- Ideal as a retrofit solution
- Fast commissioning
- Standard hardware components
- Customable software
- Short lead time
- Seamless integration to HMA IAS

Functions

- Controls start and stop of compressor
- Capacity control
- Shutdowns
- Start Interlocks
- Auxiliary pump and equipment control
- Duty/stby functionality
- Min no of compressors to run based on demand
- Room controllers with evaporator control, defrost and heating.
- Easy parameter setting
- PMS heavy consumers interface



Proven concept, reliable hardware

The RCS is developed using standard ABB hardware components available worldwide.

Easy debugging and troubleshooting

By utilizing the GMR HMI software with all it's troubleshooting capabilities..

Playback

As the system is based on HMA concept, it comes with data logging of all process variables every second.

Remote connection

If remote connection option is installed, HMA can logon. Generally 95% of all problems can be solved using remote connection, reduces MTTR (Mean Time To Repair) as well as having reduced service and travel costs.

Seamless integration

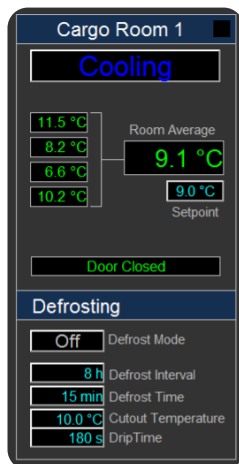
By selecting a HMA control system for your equipment you will be able to mix and match with other HMA solutions.

Safety System

The safety system protects the compressor, personnel and the system from possible damage if there is plant parameter that exceeds its limit.

Compressor Control

As both energy consumption and performance are equally important to ship operations the control system is designed to optimize performance.



Refrigerated Space Controller

Embedded into the system is a space controller responsible for accurate temperature control of a refrigerated space. It also controls defrost intervals, defrost time, drip time and communicates with compressor control.

Marine approvals

DNV GL
ABS
BV
LR

Environmental specs

Air 0°C-45°C
Water ingress protection field equipment IP54

Electrical

Supply voltage 230V AC or 24VDC

Models	Type of system
RCC001	Compressor control and safety system running single CPU
RCC002	Control and safety system running 2 separate CPU's
RCC003	Control and safety system running redundant CPU
Other configurations available on demand. Please contact HMA for a offer	