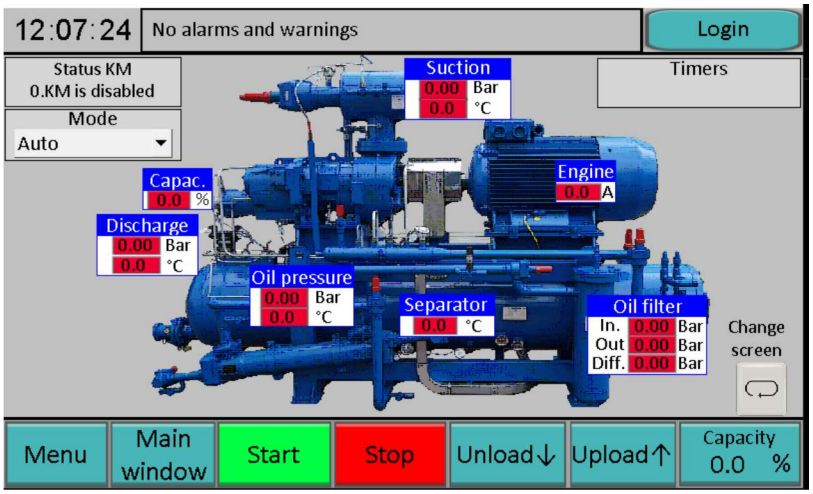
CONTROLLER UNICOOL I FOR COMPRESSOR UNITS AND CHILLERS

COOLTECH FINLAND OY
INDUSTRIAL REFRIGERATION MACHINERY

Unicool I controller for the compressor units is used to continuously measure and monitor the conditions and operating modes of compressor units (pressure, temperature, alternating current in the motor windings) in order to ensure best performance and to protect the equipment and personnel in the pre-emergency situations.



The Unicool I controller is designed to:

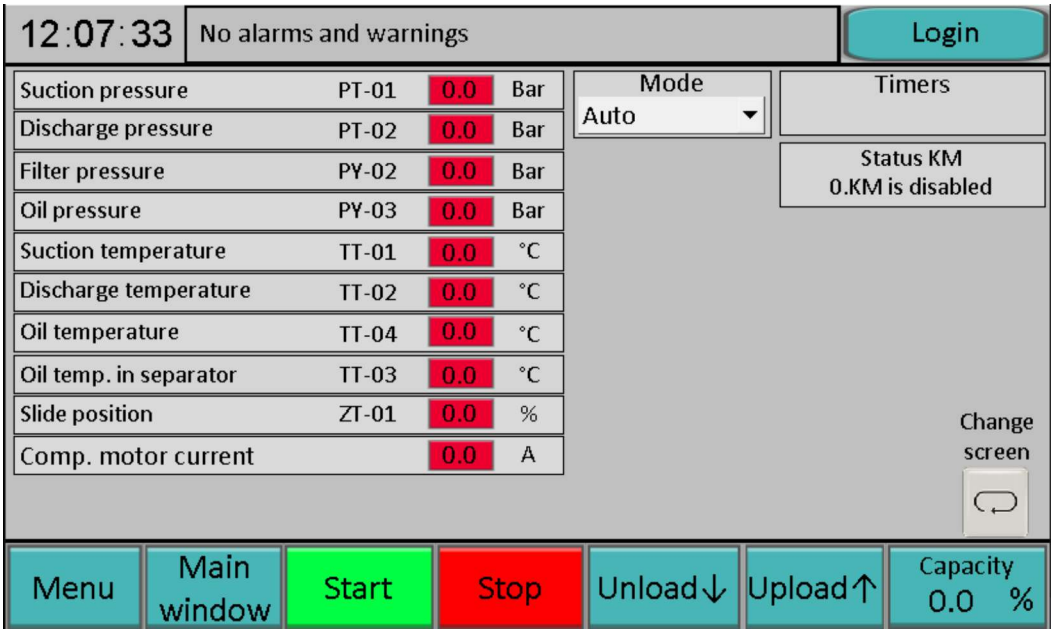
- perform automatic measurement and display of monitored parameter values
- generate discrete and analog control signals by apparatus devices
- keep failure logs
- activate warning and pre-alarm signaling when parameters go beyond the preset limits, or when discrete sensors are triggered
- self-diagnostics of operation of the control panel, equipment and sensors

Connectivity

The Unicool I systems controller has normal industry-standard communi-cation 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 Unicool I systems controller.

Functionality

- Application for remote monitoring/control via smartphone or PC
- Built-in regulator for suction pressure, process temperature
- Automatic logging history of warnings and alarms in the message log
- The ability to select the configuration of the compressor lubrication system (pumped or non-pumped), select the presence or absence of valves (bypass, oil injection)



Connectivity	Multiple communication ports, including Modbus RTU, Profibus, Profinet
Smartphone app	Available for both iOS and Android devices
Diagnostics	Detailed operating data documenting 100 shut-down situations
Refrigerants	Pre-loaded with the requisite data about all refrigerants normally used
Interface language	The controller comes with manual in English or Russian as standard.
Ambient temperature	+5 to +55 °C
Power supply	20.4-28.8 VDC, 50-60 Hz
Vibration	Sinusoidal vibrations with an amplitude of 0.1 mm and a frequency of 10 to 25 Hz
Humidity	Relative humidity 10 to 95% at 25 °C
Protection level	Operator panel (front side) has IP65 degree of protection
Scope of delivery	Central processor module CPU1215C, expansion modules (depending on configuration), control panel, design, technical and operational documentation.

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