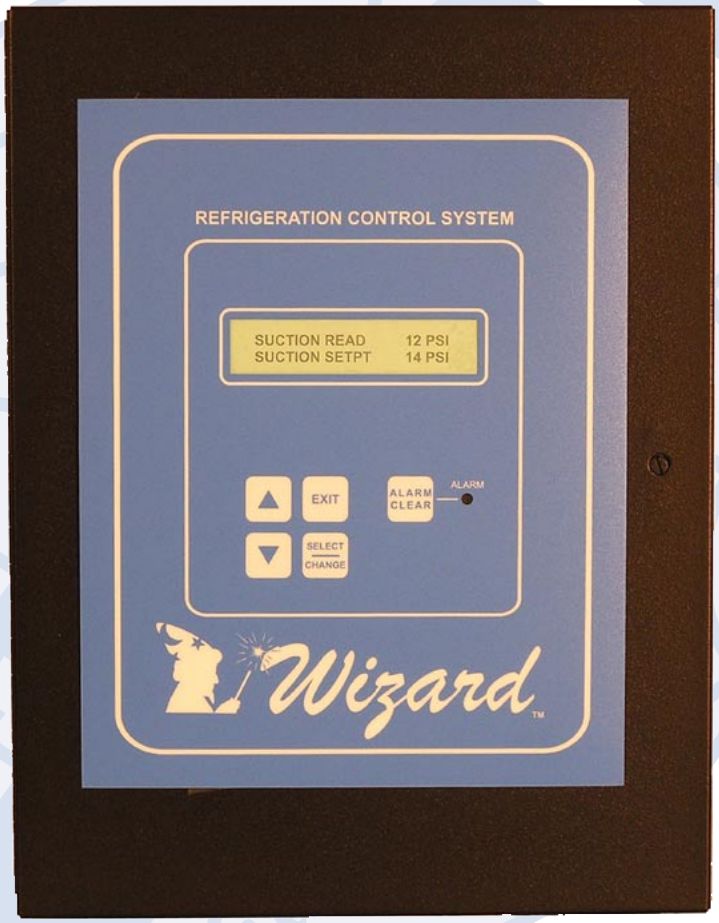
Wizard

Refrigeration Control System



Single Reciprocating Compressor Control (WSCC)

For additional information on these or any other products, please contact the factory.
Genesis International, Inc. reserves the right to change product specifications without notice

SINGLE COMPRESSOR CONTROL SYSTEM

The ***Wizard Single Compressor Control (WSCC)*** is designed to operate a large, multiple cylinder reciprocating compressor utilizing ammonia and most halocarbon refrigerants.

Suction Pressure Control --The WSCC will maintain the suction pressure as close as the Suction Pressure Setpoint by turning on/off the compressor and the unloaders.

Condenser Control -- The WSCC operates a single condenser circuit based upon a fixed head pressure setpoint. The WSCC activates this control scheme whenever the compressor is running.

Compressor Cylinder Cooling -- The WSCC monitors the temperature of the compressor head, cycling a relay to start head cooling should the temperature exceed a user configurable setpoint. This relay can be used for a head fan, liquid injection, or a water cooling system.

Monitoring & Alarming -- The WSCC monitors six separate sensors and activates alarms based upon user definable alarm setpoints. These alarms include:
High / Low Suction Pressure
High / Low Oil Temperature
High / Low Head Temperature
High / Low Head Pressure
High / Low Discharge Temperature
Low Oil Pressure Differential

System Standby -- The WSCC can be utilized as a sub-controller for a larger refrigeration control system. A close signal to the STANDBY input will shut down all compressor operations. The system remains in standby mode until receiving an open.

"MASTER / SLAVE" WSCCM Feature
Multiple WSCC controls can be linked together using the 2 wire communications input on the control board. One control is configured as the "Master" and the rest as "Slave" controls. The main "Master" control will stage all of the linked controls Compressors and Unloaders using the "Master" control's suction setpoint for up to one "Master" and five "Slaves".

The WSCC "Master / Slave " configuration has a built in protection. If for any reason the "Slave" Control loses communication with the "Master" control, the "Slave" will display the alarm message "MASTER COMM ERROR" and take over individual control of its specific Compressor / Unloader Routine using its own individual suction setpoint.

Please Note: The Genesis International Software systems "GenCom For Windows" and "GenCom 3000 Supervisory and Alarming System" can not be used when the WSCC Master and Slave networking configuration is selected.

Single Compressor Control System	WSCC
Master Compressor Control System	WSCCM

Kits Include:

Control(s)	Enclosure (Where applicable)
Power Supply	Temperature Sensor (Oil, Head Discharge)
O-M Manuals	Installation Hardware
Pressure Transducer (Suction, Head & Oil)	

WSCC __ - __ - __ - __

Pressure / Temperature Range

Medium Temp (0 to 200 PSIG Transducer)	blank
LowTemp (-14.7 to 100 PSIG Transducer)	LT

Enclosure Option

Nema 1 (Standard)	blank
Panel Mount (Standard)	PM
Nema 4	4

Enclosure Mounted Alarm Strobe Light Option

None (Standard)	blank
Enclosure Mounted Strobe Light	S

Communications Option

RS485 (Gencom) Remote Comm (Standard)	blank
RS232 Communications	232
Ethernet (Gencom) Comm	E
ModBUS Network Comm	M
BacNET Network Communications	B

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