



## PLC – PROGRAMMABLE CONTROLLER UPGRADE

agricultural and commercial refrigeration

### PLC Control System Description

The KoolJet PLC is a digital control system upgrade available for all standard analog control systems. It includes a remote touch-screen user interface panel for total system-wide control.

PLC stands for Programmable Logic Controller. A PLC provides the highest levels of reliability with precise and coordinated operation using programmed rules and digital communication with sensors and connected devices. Systems with a PLC respond to conditions very precisely and provide very close control of temperature, humidity, free-cooling, air movement coordinated operation with other KoolJet systems, remote wireless monitoring and control and more.

- Multiple users are password protected and can be set with limited or full control access. Session times out after 15 minutes of inactivity.
- Master/Slave system is engineered to use alone or to connect multiple KoolJet Systems and control them as one or as separate rooms with separate produce or cold-storage requirements.
- Each connected KoolJet System can have its own occupied and unoccupied set points. This is great for managing energy across a number of cold-storage rooms.
- Connect to the Network using built-in Ethernet for remote monitoring and control. Being connected also facilitates KoolJet engineers to quickly help in case of a cooling emergency.
- Precise control over FREE-COOLING by monitoring the indoor and outdoor conditions and automatically staging off the refrigeration system and open the motorized free-cooling mode fresh-air damper.
- Humidity controls include both a Differential RH Setpoint and a room temperature based dehumidification activation mode for humidity control.



*KoolJet provides a comprehensive yet user-friendly interface to the control system settings. The "Master" and all "slave" units are accessible from one screen that is connected using common control wires. Each KoolJet slave can have its own temperature and humidity settings. This strategy maximizes the ability to store some produce for short term and some for long term.*

- System Scheduler allows settings for different days of the week and the ON and OFF times for each day.
- Comprehensive Alarms and Warnings are designed to keep the cold-storage system running and if a fault occurs, identify the cause and solution quickly.
- Cold-Storage Room Evaporator Fan Speed can be adjusted for correct Air-Balancing.
- Remote user interface is provided and ready to connect to the Master KoolJet unit. KoolJet Slaves units can be added as required as requirements change.

**KoolJet**

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