



LOREN COOK COMPANY

2015 E. DALE STREET
SPRINGFIELD, MO 65803-4637

417.869.6474

FAX 417.862.3820

lorencook.com



March 2010



DDC MICROPROCESSOR CONTROLS



The optional **microprocessor control** offers a multitude of new features and enhancements

Standard features

- **System Monitoring**
 - Integrated six line graphic LCD display
 - Keypad for on-site modification of configuration and set points
 - Standard with ModBus® communication for remote control monitoring
 - Standard sensors for Supply Air (SA) and Outside Air (OA) temperature
 - Temperature sensor for Outside Air After Wheel (OAAW) (Included on units with heating and cooling coils)
 - Occupied / Unoccupied status indicator
 - Heat / Cool mode indicator
- **Time Clock / Calendar Features**
 - Define Occupied / Unoccupied Times
 - Define Holiday Schedules
- **Cooling Coil Control**
 - Digital control of single or two stage compressors
 - Time delay on compressor restarts and stage changes
 - Analog control of chilled water valves (Water valves are included to ensure compatibility)
- **Heating Coil Control**
 - Multi-step or variable (SCR) control of electric heat
 - Analog control of hot water valves (Water valves are included to ensure compatibility)
- **Summer / Winter Changeover**
 - Automatic changeover based on outdoor conditions
 - Economizer Mode (Enabled based upon free cooling set points)

Options

- **Additional Communication Protocols**
 - LonWorks™ communication
 - BACnet® communication
- **Sensors**
 - Temperature Sensors:
 - Return Air (RA)
 - Exhaust Air After Wheel (EAAW)
 - Outside Air After Cooling Coil (OAACC)
 - Humidity Sensors:
 - Outdoor Air
 - Room Air
 - Supply Motor Current Sensor
 - Exhaust Motor Current Sensor
 - Rotation Sensor
 - Dirty Filter Sensor
 - Clogged Wheel Sensor
 - CO2 Sensor
 - Remote Interface Panel
 - Thermostat
 - Humidistat