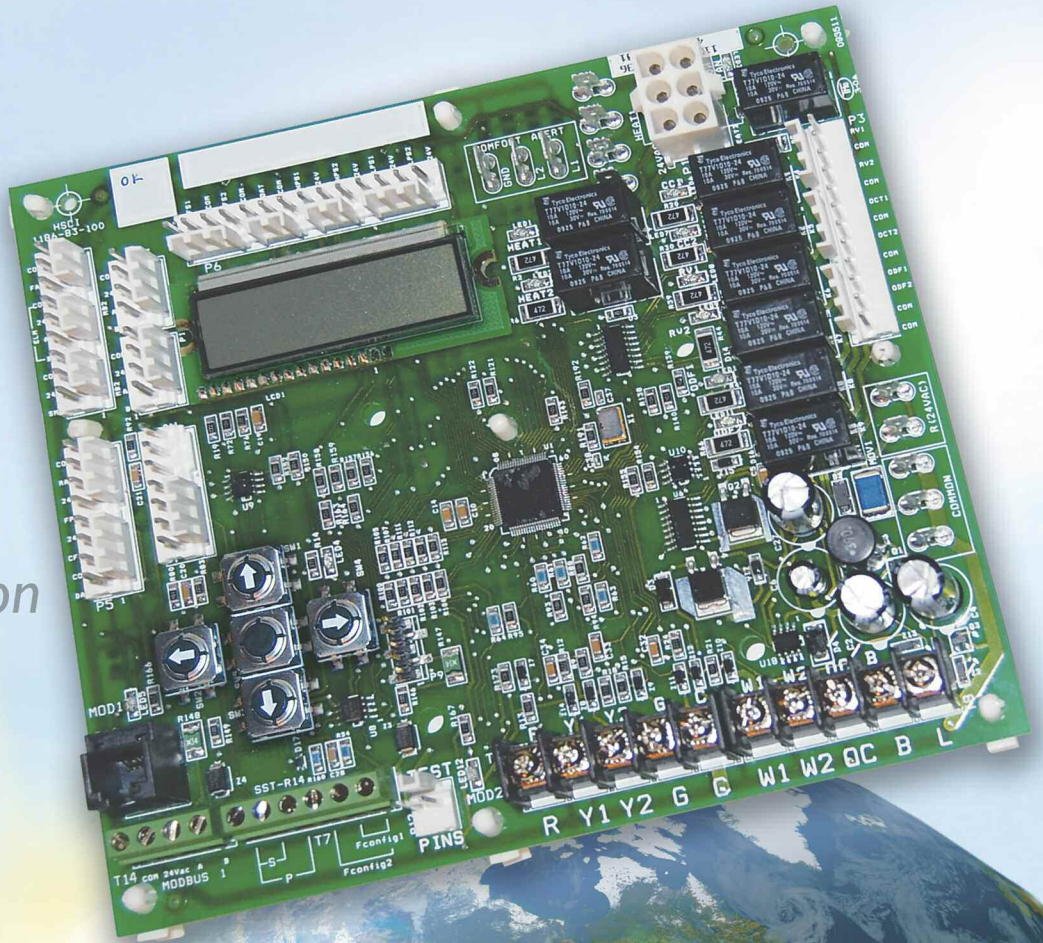


# The Dawning of Smart Innovation

*Experience  
the Simplicity  
of  
Clear Communication  
with  
Ultimate Control*



*relax*  
It's Rheem®



Commercial Series™  
**ClearControl™**



# Clear Communication.

## ClearControl™

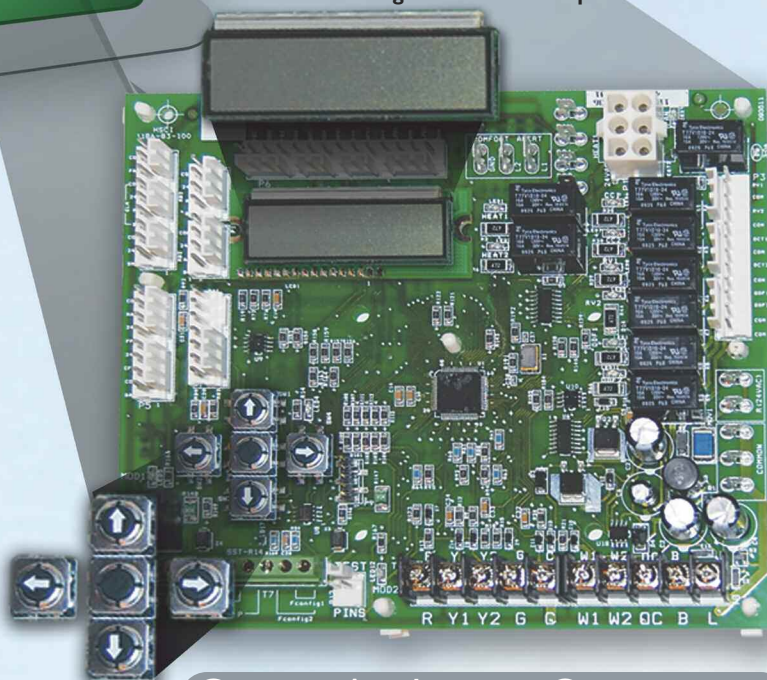
Rooftop Unit Controller (RTU-C) Features:

### System Failure Protection

The *Active Protection™* feature ensures proper performance by analyzing key parameters such as: High & Low Pressure Control, Air Proving, Dirty Filter, Freeze-Stat Sensor, Return Air Sensor, Discharge Air Sensor, & Outdoor Air Sensor. Key components will shut down if 3 or more potential issues are detected, providing the customer with a high degree of product dependability.

### Faster & Simpler Service Calls

No time will be wasted on interpreting codes or counting flashing lights. The system condition or current function is immediately spelled-out on a 2-line, 16 character LCD screen – eliminating the need for complicated code charts.



### Greater Application Optimization

Keypad menu allows for swift navigation with “left & right arrows”, “up & down arrows” and a “center ‘enter’ button” allowing for simple, maximized information retrieval.

### Intelligent Troubleshooting

Industry-leading diagnostics manage and report on over 100 different system conditions and functions enabling Contractors to identify and address system maintenance more efficiently.

### Energy Cost Savings

Smart equipment performs more efficiently to satisfy the comfort requirements of the customer and ensures eco-friendly operation year around.

ClearControl™ Models are Compatible with Standard 24-Volt Programmable Thermostats

### Rheem Thermostats



#### 300-SERIES

- Deluxe Programmable – easy to use
- Lighted 12 sq. inch Touchscreen Models
- Dual Fuel Capable
- Humidity Control Models

**Limited Warranty:**  
• 5 Years from Installation Date



#### 200-SERIES

- Programmable – easy to use
- Lighted 4 sq. inch Blue Display Models

**Limited Warranty:**  
• 5 Years from Installation Date



# Ultimate Control.

**PLUS**

ClearControl™ Models have optional Plug-and-Play Communication with any Building Automation System (BAS) that Utilizes BACnet IP, BACnet MS/TP or LonWorks Protocols

ClearControl™  
Communication Card



Option A  
LonWorks  
Protocol

**INDUSTRY  
STANDARD  
PROTOCOLS**



Option B  
BACnet  
Protocol

## Building Control Panel

- Normally located in the building's mechanical room
- Maintains the operational schedule of the HVAC system

## Third-Party Building Automation System

- Located locally or remotely for 24/7 system control

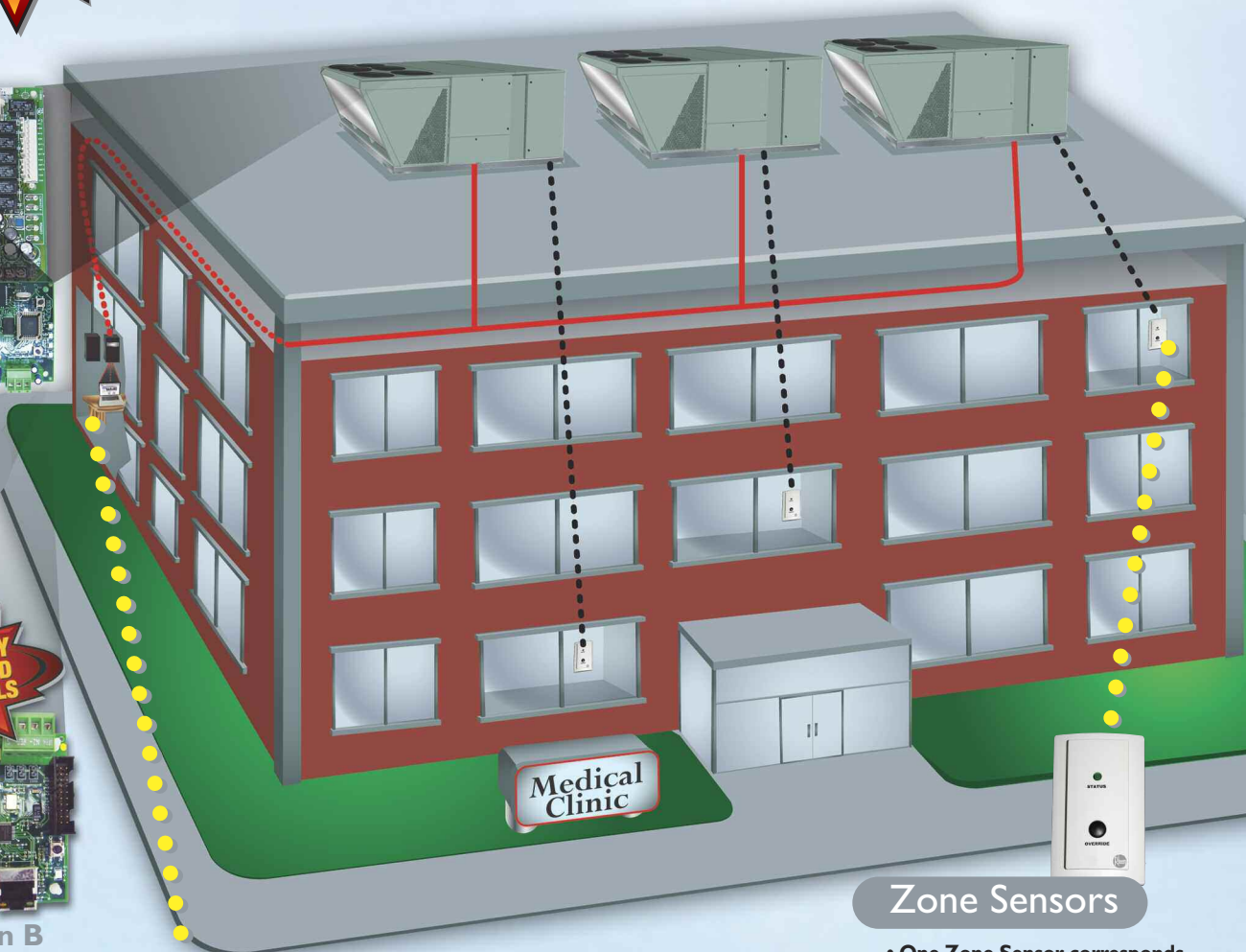
The Unparalleled Product Features of the ClearControl™ Control Board Enables Communication between Our System and Yours...

Saving YOU Time & Money.

Obtain System Access  
& Control World-Wide

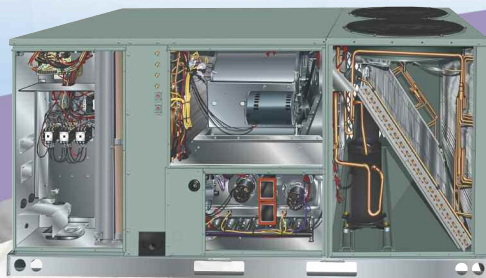
## Zone Sensors

- One Zone Sensor corresponds to each Rooftop Unit Controller
- Positioned in each designated zone
- Enables end-user to override current system operation





# ClearControl™ Models:



**RJNL-C  
RKNL-C  
RLNL-C**

3-25 ton models available

## Standard Model Features:

- Meets or exceeds 2010 federal minimum efficiency levels
- R-410A Refrigerant
- TXV refrigerant control
- Enhanced access with 1/4 turn fasteners and hinges\*
- Removable drainpan\*
- High & low pressure control
- Filter driers
- Easy low voltage connection
- Molded compressor plug
- Enhanced wiring harnesses
- Slide-out indoor fan assembly
- Cooling operation to 125° F
- Smoke detector wiring
- Improved IFC (Integrated Furnace Control)
- Thru-the-curb gas piping
- Dependable outdoor fan shaft down design
- Evaporator is intertwined face split
- Scroll compressor technology in all models
- Sturdy cabinet
- Powder coat paint finish
- Convertible airflow
- External gauge ports
- Optional louvered hail guards
- Factory charged, wired & run-tested
- Drawn basepan
- Commercial grade base rails
- Air proving
- Dirty filter
- Freeze stat sensor
- Return air sensor
- Discharge air sensor
- Outdoor air sensor
- Defrost sensor (Heat Pump)
- 1/4 fasteners, hinged access
- Cooling and heating diagnostics

\* 6 to 25 Ton Models Only

## Factory Options:

- Hail Guard
- Stainless Steel Heat Exchanger (Package Gas Electric)
- Non-Powered Convenience Outlet
- Un-fused Service Disconnect (Package Gas Electric)
- Low Ambient
- Comfort Alert™
- Communicating Economizer w/ and w/o Smoke Detector

## ClearControl™ Model Specifications

<b>Power:</b>	18 - 30VAC, 50-60Hz, 15VA power consumption		
<b>Environmental Operating Range:</b>	-40° to 158°F (-40° to 70°C), 10%-95% RH non-condensing		
<b>Outputs:</b>	Economizer Fan Cooling Stage 1	Cooling Stage 2 Heat Stage 1 Heat Stage 2	Heat Stage 3/Exhaust/Reversing Valve "L" Terminal for Thermostat
<b>Inputs:</b>	Space Temperature Return Air Temperature Supply Air Temperature Outdoor Air Temperature Evaporator Temperature Condenser Temperature	Indoor Air Quality Fire Shutdown Enthalpy Status Fan Status Filter Status	Remote OCC Setpoint Adjustment Comfort Alert™ Field Configurable Voltage or Resistance Input
<b>Communication Ports:</b>	Modbus RTU with Baud rate of 19,200 bits/sec		
<b>Optional Plug-Ins:</b>	LonWorks communication card BACnet communication card with RS-485 BACnet MS/TP and RJ-45 BACnet IP/Ethernet Network Connector Baud rate software adjustable		
<b>Status Indication:</b>	Visual (LED) status of serial communication, running, errors, power, all digital outputs		
<b>Battery:</b>	None		
<b>Protection:</b>	Built-in high or low voltage protection circuitry. External circuit breaker or fuse on secondary voltage required		
<b>Listed By:</b>	FCC Part 15 - Subpart B - Class A. UL, UL Canada, and European Community (CE) standards for industrial applications		
<b>Overall Dimensions:</b>	7" (width) by 6 1/4" (height) by 1-1/4" (depth). 180mm (width) by 160mm (height) by 50mm (recommended panel depth)		



*The LEED® (Leadership in Energy and Environment Design) Green Building Rating System is the nationally accepted benchmark for the design, construction and operation of high performance green buildings.*



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