

# Features/Benefits of the Roberts Gordon® UltraVac™ Controls

## Controls for Modulating CoRayVac® Infrared Heating Systems

Feature	Benefit
<ul style="list-style-type: none"> <li>▪ Continuous modulation of CORAYVAC® system between 100% and 60% of total rated input.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Fuel savings by delivering only the input needed to satisfy building heat loss.</li> <li>▪ Maximizes comfort by controlling intensity of heat, based on heat requirement.</li> <li>▪ Continuous modulation (not staged modulation) allows for the closest control of system input and intensity.</li> </ul>
<ul style="list-style-type: none"> <li>▪ System modulation by adjusting combustion air and fuel equally.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Efficient, complete combustion throughout entire range of modulation.</li> </ul>
<ul style="list-style-type: none"> <li>▪ Variable speed technology on pump motors.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Drastically reduced electrical power consumption.</li> <li>▪ Reduced pump noise levels.</li> <li>▪ Soft start reduces stress on pump motor.</li> <li>▪ Longer motor life.</li> <li>▪ Reduced maintenance and repair costs.</li> </ul>
<ul style="list-style-type: none"> <li>▪ One controller controls up to three zones with one pump.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Zoning capability allows for maximum flexibility and fuel saving opportunities.</li> </ul>
<ul style="list-style-type: none"> <li>▪ Multiple controllers connect to a single remote PC where data can be viewed and settings altered.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Provides centralized energy management.</li> </ul>
<ul style="list-style-type: none"> <li>▪ Modem communication package allows offsite status monitoring and system setting changes to multiple controllers.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Provides centralized energy management for multiple offsite locations.</li> <li>▪ Reduced installation and operation cost since a single phone line can service all the controllers in the same building.</li> </ul>
<ul style="list-style-type: none"> <li>▪ Multi-featured zone sensors with digital temperature readout, customized setpoint adjustability and override feature.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Provides localized control and temperature monitoring.</li> <li>▪ User defined setpoint adjustability via PC allows the building owner control over setpoint tampering.</li> </ul>
<ul style="list-style-type: none"> <li>▪ Zone Temperature Override.</li> </ul>	<ul style="list-style-type: none"> <li>▪ For random occupancy periods, user can override setback temperature to day temperature. Duration of override can be customized by user at the PC.</li> </ul>
<ul style="list-style-type: none"> <li>▪ Outdoor Temperature Sensor.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Provides monitoring of outdoor temperature.</li> </ul>
<ul style="list-style-type: none"> <li>▪ Automatic Temperature Setback during unoccupied periods.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Reduces fuel and electrical costs.</li> </ul>

Feature	Benefit
<ul style="list-style-type: none"> <li>▪ Up to four customized occupancy periods for each heating zone each day of the week (7-day time clock).</li> </ul>	<ul style="list-style-type: none"> <li>▪ Maximizes fuel and electrical savings through precise control of system operation schedules.</li> </ul>
<ul style="list-style-type: none"> <li>▪ Programmable Holiday Periods.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assures energy savings during unoccupied holidays.</li> </ul>
<ul style="list-style-type: none"> <li>▪ ULTRAVAC™ PC Software.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Easy viewing of programming screens and system status. Easy alteration of system settings. All adjustments can be made from one centralized location.</li> </ul>
<ul style="list-style-type: none"> <li>▪ Comprehensive system status screen on PC software.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Allows for continuous, easy to use, complete system monitoring.</li> </ul>
<ul style="list-style-type: none"> <li>▪ Optional system status screen with graphics.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Allows for continuous, easy to use, customized system monitoring with graphical representation of location of system components.</li> </ul>
<ul style="list-style-type: none"> <li>▪ Up to 92-day history reporting of hours run for zones and pump.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Allows tracking of system operation.</li> </ul>
<ul style="list-style-type: none"> <li>▪ Up to 92-day history reporting of zone and outdoor temperatures.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Allows tracking of heating zone conditions and weather conditions.</li> </ul>
<ul style="list-style-type: none"> <li>▪ Detailed Installation and Operation manuals.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Reduces installation time and errors; easier to troubleshoot and repair.</li> </ul>
<ul style="list-style-type: none"> <li>▪ Building Management System Time Enable.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Allows an existing Building Management System to control the day/night switching periods resulting in reduced programming time.</li> </ul>
<ul style="list-style-type: none"> <li>▪ Vacuum Proving.</li> </ul>	<ul style="list-style-type: none"> <li>▪ As an extra safety precaution, the pressure switch at the pump must prove in both open and closed positions. This feature disables the heater if pressure switches have been tampered with.</li> </ul>
<ul style="list-style-type: none"> <li>▪ UL certified.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Independent testing to industry quality standards.</li> </ul>



**Roberts-Gordon**

1250 William Street

P.O. Box 44

Buffalo, New York 14240-0044

Telephone: 716.852.4400

Fax: 716.852.0854

Toll Free: 800.828.7450

[www.rg-inc.com](http://www.rg-inc.com)

*Quality in Any Language™*