

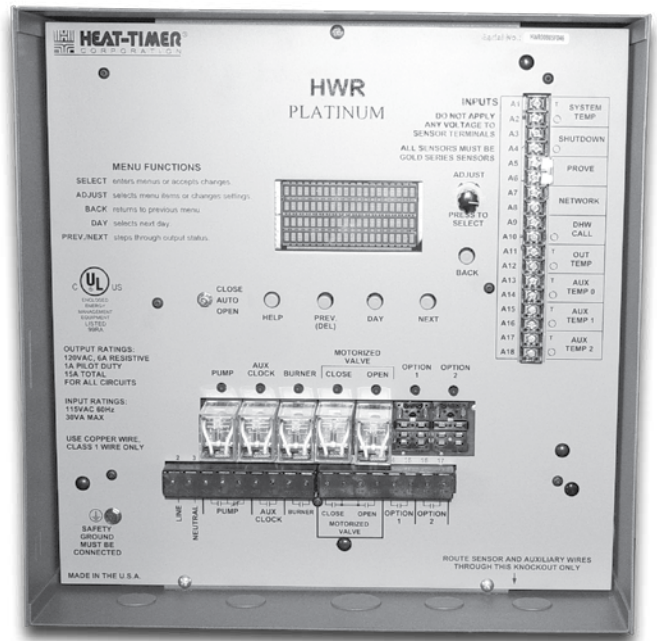
# HYDRONIC HEATING CONTROLS

- With
- **Built-in Domestic Hot Water Priority**
  - **Motorized Valve Control**
  - **Internet, BACnet, Phone, RS232 Communication**

## HWR Platinum

### Description:

*A unique Microprocessor Control to manage a Hot Water Boiler or a Two-way (with a heat-exchanger) or a Three-way Motorized Valve in Hot Water Heating Applications Based on System Temperature and Outdoor Temperature.* The HWR Platinum Control series provides buildings with comfortable, even heat, yet maximizing fuel savings. It also incorporates many additional features and flexibilities that can be customized to each building's unique characteristics.



- **Designed with Hydronic Heating in mind.** The HWR Platinum control series is designed to operate either a Hot Water boiler or Motorized Valve. Each of the options has a set of pre-configured, but adjustable settings to meet the specific needs of each building. The HWR will reduce fuel costs while maintaining a more comfortable space temperature by lowering System water temperature in milder weather.
- **Domestic Hot Water with or without Priority.** The control can be configured to operate a domestic hot water pump using Option 1 relay output, as well as increase system water temperature when Domestic Hot Water is needed. In addition, it allows for optional priority of the domestic hot water over heating or running them both.
- **Multiple Day and Night Schedules.** The control has multiple adjustable day and night settings to help reduce fuel consumption. In addition, a built-in, 7 day programmable schedule, with 4 Day settings and 4 Night Setback settings per day, to customize operation for even further temperature control and fuel savings.
- **Boost and Vari-Boost.** To bring a building quickly back to comfortable temperatures after the cooler night period, the control has a built-in Boost feature. The Boost allows the system to rise to an increased temperature for a calculated time period based on outdoor temperature.
- **Output Relay & Multiple Auxiliary Outputs.** Utilizing the integrated system relay and multiple auxiliary outputs, the HWR Platinum can be configured to activate or deactivate additional equipment based on any of the HWR operations or based on an independent programmable schedule.
- **Optional Remote Communication Add-On with Modem or Internet Connection Package.** Imagine being able to not just control your building heat from anywhere, but to be able to see boiler status, domestic hot water calls and temperature logs. In addition, you will be able to change schedules, set and monitor wireless and hard wired sensors, configure and receive alarms, configure and view histories, activate or deactivate sensors, and more. Well, imagine no more. The HWR Platinum can be ordered with any of the communication packages that fit your needs. With the optional communication packages you can configure, set alarms and monitor a variety of sensors ranging from wireless, water meter, oil level, temperature, switch, and stack sensors.
- **Optional BACnet IP Communication.** With the BACnet option, a HWR Platinum can act as node in a BACnet network. A proprietary communication EMS/BMS can use their BACnet integration to place the HWR Platinum on their network.



*Ask About The Internet or The  
BACnet Communication Options*



- **Memory.** With a built-in E-Prom, the HWR Platinum will never lose your settings even after a power outage or loss of battery power.
- **Vari-Boost with Early Shutdown.** Another saving feature, the HWR Platinum allows buildings to switch to Night Setback mode earlier than scheduled based on mild outdoor temperatures.
- **Digital Display for all System Settings.** The HWR Platinum's 80 character alphanumeric digital display names each system parameter in plain English and shows its precise value. The easy to follow menu system allows users to quickly make changes to any system setting without having to learn any specialized codes or keyboard commands. Password protection is available to prevent unauthorized users from making adjustments to control settings.

## Features:

### Standard Features

- **Built-in Outdoor Reset-**For better comfort and increased energy savings, the HWR controls building temperature by varying the heating system temperature based on Outdoor temperature.
- **Adjustable Pump Delay.** Allows the System Pump an additional Run-On time to disburse residual heat in the boiler. Thus, reducing boiler stand-by loss.
- **Day (Normal)/Night (Save) modes-** For additional savings, the HWR Platinum or an outside EMS or clock can control Setback settings.
- **Built-in Prove and Shutdown-** The System relay can be used to activate other equipment, such as a Combustion Air Damper. The Prove can be used to check the status of other equipment, such as the end switch on a combustion air damper prior to firing the boiler.
- **Bypass-** Allow installers and contractors to test and override control settings when needed.
- **Season changes (Summer / Winter) -** Controls whether the boiler will operate and provide heat.
- **Manual Shift-** Allows for a temporary adjustable override of boiler operating schedule by switching from Day to Night Setback or the opposite.
- **Control other devices or Equipment-** With the Aux Clock output you'll have the ability to turn on or off other equipment on a customized secondary schedule. The schedule has a customizable 4 On and 4 Off settings per day.
- **Minimum System Temperature Adjustment-** Another safety feature that adds to boiler protection. When in Burner mode, this should be set to manufacturer's suggested minimum boiler temperature.

### Remote Communication

- **Remote Communication Option-** Now you can connect your HWR Platinum panel to the Internet, BACnet, or to Visual Gold software package using a phone modem or RS232 and be able to read, change, monitor, and analyze your readings in a variety of ways from virtually anywhere.
- **Use Existing Sensors and/or Wireless Sensors and MIG Sensors-** (Additional sensor capability is available with Visual Gold or Internet Communication Packages.)
- **Connect as many as 64 sensors to the panel-** The panel, when purchased with Visual Gold or the Internet panels, can monitor up to 64 additional sensors. Some of these sensors can monitor fuel levels, stack temperature, or smoke detectors. You can even connect your panel to a MIG box (multi-sensor neuron processor.)

### Interface with Other Controls

- **Can connect to a Multi-MOD control –** When connected to the Multi-Mod it will control multiple, up to 20 modulating burners when used with Multi-Mod Extensions.
- **Interface with EMS / Energy Management Systems-** The HWR Platinum can be connected to an EMS system via a back connection. This allows the HWR Platinum control parameters to be read and adjusted via EMS.

## Specifications:

<b>Voltage Input:</b>	120 VAC 60 Hz
<b>Power Consumption:</b>	30 VA Max/30 Amp Max
<b>Heating Modes:</b>	Burner or Motorized Valve.
<b>Pump Output:</b>	1 S.P.D.T
<b>Heating Output:</b>	2 N.O. S.P.S.T. for Motorized Valve and 1 N.O. S.P.S.T. for Burner.
<b>Auxiliary /Clock Output:</b>	1 N.O. S.P.S.T.
<b>Option1 Output:</b>	1 N.O. S.P.S.T.
<b>Option2 Output:</b>	1 N.O. S.P.S.T.
<b>DHW Pump Output:</b>	Through Option 1 Relay. Can be set in the Startup menu.
<b>DHW Priority:</b>	Can be set in the Startup menu. Will provide 1 Hour priority operation
<b>Output Relay Ratings:</b>	1 Amp inductive, 6Amp resistive at 120 VAC 60 Hz, 15A total for all circuits
<b>Temperature Display:</b>	Fahrenheit or Celsius.
<b>Display:</b>	80 character Alphanumeric (4 rows with 20 characters each)
<b>Sensor Ranges:</b>	Outdoor temperature sensor - minus 35°F to 250°F Heating system sensor - minus 35°F to 250°F
<b>Auxiliary Sensor Inputs:</b>	3 Auxiliary Sensor Input.
<b>Network Sensor Input:</b>	64 Sensors can be connected (Use only Neuron Sensors, MIG, or Wireless Receiver.)
<b>Outdoor Cutoff Range:</b>	30°F to 75°F, ON and OFF
<b>Reset Ratio Range:</b>	A (1:3) to J (4:1) (Outdoor : System Water)
<b>Offset Adjustment:</b>	minus -40°F to plus 40°F degrees
<b>Night Setback:</b>	0°F to 80°F degrees
<b>Minimum Water Temperature:</b>	70°F to 170°F
<b>Burner Differential:</b>	0 to 15°F
<b>Pump Run-On:</b>	0 to 60 minutes
<b>Schedules:</b>	4 Day Time and 4 Night Time (Setback) settings per day
<b>Aux Clock Schedule:</b>	4 open and 4 closed settings per day
<b>Night Setback:</b>	0 to 80°F
<b>Morning Boost:</b>	Vari-Boost - Self-adjusting from 0 to 90 minutes - Water temperature increase 0 to 60°F Early Shutdown - Self-adjusting from 0 to 90 minutes
<b>Power Backup:</b>	Lithium coin battery, 100 days minimum 5 year replacement (Maintains Clock in power outages) Other parameters are stored in E-Prom
<b>Memory Backup:</b>	All control parameters are stored in E-Prom indefinitely.
<b>Remote Communications Options:</b>	Ethernet (RINet), BACnet (BAC), Phone modem (RIM), RS232 (RI)
<b>External Inputs:</b>	1 Network Input, 3 Aux Inputs, DHW Call Input, Shutdown Input, and Prove Input.
<b>Season:</b>	Winter and Summer.
<b>Enclosure:</b>	NEMA 1
<b>Dimensions:</b>	5-1/8" x 13" x 13"
<b>Weight:</b>	14 pounds

### Item Description

### Part #

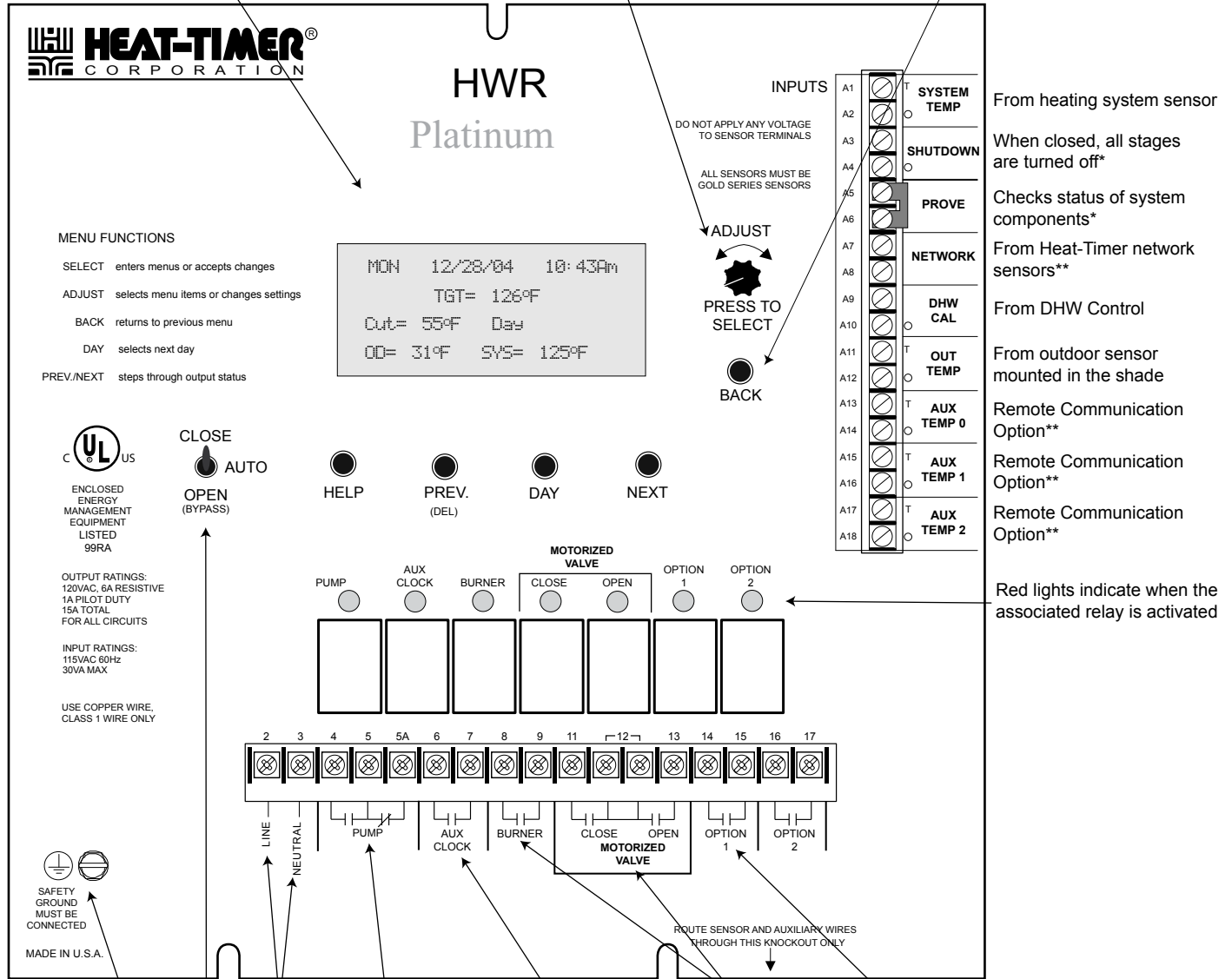
<b>HWR Platinum</b>	<b>926795-00</b>
<b>HWR Platinum with Visual Gold and Modem</b>	<b>926795-RIM</b>
<b>HWR Platinum with Visual Gold less Modem</b>	<b>926795-RI</b>
<b>HWR Platinum with EMS Communication</b>	<b>926795-EMS</b>
<b>HWR Platinum - Internet</b>	<b>926795-RINet</b>
<b>HWR Platinum - BACnet IP</b>	<b>926795-BAC</b>

# HWR PLATINUM PANEL

Digital display shows the date, heating status, and cutoff, outdoor, and system temperatures. To view and adjust settings, press the Adjust/Select button.

Depress the knob to move forward through the menus and to accept changes. To change a setting's value, rotate the knob.

Depress the button to go back through the menus



From heating system sensor

When closed, all stages are turned off\*

Checks status of system components\*

From Heat-Timer network sensors\*\*

From DHW Control

From outdoor sensor mounted in the shade

Remote Communication Option\*\*

Remote Communication Option\*\*

Remote Communication Option\*\*

Red lights indicate when the associated relay is activated

Green Ground screw must be connected to Earth Ground

120VAC Power

Pump Output is active when HWR requires heat and has optional Run-On

Aux Clock status is programmable based on time schedule

Valve or Burner Outputs are active when HWR requires Heat

Option for DHW Pump

OPEN/BYPASS position mechanically overrides outputs so the valve and burner are always active

\* DRY CONTACT ONLY  
 \*\* Only available with the Remote Communications package

ISO 9001:2000  
 CERTIFIED