



# RC2100 WI-CON

Wireless Heating Control for Steam and Hot Water Boilers



**Features:**

- No sensor wiring required
- Intelligent sensing algorithm saves energy
- Low limit control and alarm alert operator of problems
- Uses spread spectrum wireless technology to provide control in multi-tenant steam or hot water heating applications
- Cycles boiler based on wireless outdoor air sensor value and the averaged input of up to 12 wireless indoor space sensors
- Wireless outdoor air sensor can be installed without penetrating the building, allowing sensor location to be optimized
- Wireless indoor sensors can be easily relocated for fine tuning and balancing of system
- Two temperature setpoints (day/night)
- Individual sensors can be selected to be included or excluded in the averaging calculation
- Adjustable time delay for control output
- Manual/auto system switch
- Built-in real time clock
- Selectable external clock input
- Optional wireless clock/EMS interface
- Low battery and lost sensor alarms
- Space temperature low limit alarm and control output
- One or more signal repeaters can be added to system if longer signal is desired



**SIGNAL REPEATER**



**INDOOR SPACE SENSOR**



**OUTDOOR AIR SENSOR**

RC2100 PRICING	
Model	Price
RC-2100*	\$4,094.00
Additional Indoor Space Sensor	\$280.00 (each)
Signal Repeater RR1552A	\$1,200.00 (each)

\*Includes the control, 1 outdoor sensor and 4 indoor space sensors



# HEAT TROL ELITE SERIES

HWE-Single Stage, HWE-MOV, HWE-Mult Stage

Hot Water Reset Control for Light Commercial and Residential Applications

**Features:**

- Provides quick and accurate system status at the press of a button
- Indicates pump and boiler status at a glance
- 1/2 inch LED Display flashes to indicate sensor problems
- Accepts an optional thermostat or switch signal to control system
- Provides domestic hot water priority
- Monitors boiler loop temperature
- Temperatures displayed in 1 degree increments
- Adjustable outdoor system start point (can be disabled)
- Control settings are stored if power is lost
- Dry contact for remote enable/disable
- Adjustable minimum water temperature in HWE-Single Stage and HWE Multi Stage models
- Adjustable maximum water temperature adjustment for HWE-MOV



HEAT-TROL PRICING	
Model	Price
HWE Multi Stage*	\$1,026.00
HWE MOV*	\$678.00
HWE Single Stage*	\$594.00

\*Includes sensors

CONTROLS



# EPU-CH

## Outdoor/Indoor Heating Controls for Steam Boilers



### Features:

- Effectively regulates ambient indoor temperatures according to outdoor temperatures by automatically cycling boiler operation
- Runs on cycle concept, meaning that as outdoor temperatures fall, the heating system runs longer keeping the ambient indoor temperatures constant
- A reliable, easily installed "weatherhead" sensor monitors outdoor temperature and can be run up to 500' from the panel
- A heating system sensor to signal the panel that heat has been circulated to all parts of the building. This sensor is strapped onto a system return pipe and can be run up to 500' from the panel
- Time clock to provide three different heat levels:
  - Day or normal heat levels for when the building is occupied and active
  - Night or save heat levels for when the building is empty or inactive
  - Morning warm up to quickly return the building to comfortable temperatures after the night or save period
- Separate day and night adjustable outdoor temperature cutoff set points
- Separate day and night heat adjustments
- Easy to read lights show what the status of the panel is at all times
- Thermal lockout prevents a new cycle from starting if there is sufficient heat circulating in the building
- Lights indicate heating system sensor status

### Controls follow the weather: (see chart)

The chart shows the approximate number of minutes of heat per hour after heat has been established. C on the chart refers to continuous operation. The standard cycle is one hour. However, 30 minute cycles are available on special order. If you use a 30 minute cycle, divide all figures in the chart by half.

EPU-CH PRICING	
Model	Price
Heat Timer EPU-CH Control*	\$3,474.00

\*Includes sensors

RUN TIME IN MINUTES BASED ON A 60 MIN CYCLE															
Heat Adjustment	Outdoor Temperature														
	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50
A	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6
B	38	36	34	32	30	28	26	24	22	20	18	16	14	12	10
C	42	40	38	36	34	32	30	28	26	24	22	20	18	16	14
D	46	44	42	40	38	36	34	32	30	28	26	24	22	20	18
E	50	48	46	44	42	40	38	36	34	32	30	28	26	24	22
F	C	52	50	48	46	44	42	40	38	36	34	32	30	28	26
G	C	C	C	52	50	48	46	44	42	40	38	36	34	32	30
H	C	C	C	C	C	52	50	48	46	44	42	40	38	36	34
I	C	C	C	C	C	C	C	52	50	48	46	44	42	40	38
J	C	C	C	C	C	C	C	C	C	52	50	48	46	44	42

C = constant run

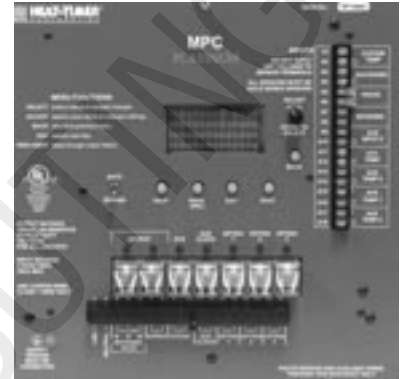


# MPC PLATINUM

## Cycling and Sequencing Controls for Steam Heating Systems

### Features:

- Microprocessor based control to manage a steam boiler or a two way steam valve in steam heating applications based on system temperature and outdoor temperature
- Designed to utilize either a steam boiler or district steam
- Multiple day (normal) and night (save) schedules to reduce steam consumption
  - Built in 7-day programmable save mode with 4 "on" settings and 4 "off" settings per day to customize operation
- Boost and vari-boost to bring building quickly to comfortable temperatures after night (save) period
- Vari-boost with early shut down allows office buildings to switch to night (save) mode earlier than scheduled, taking into consideration residual heat and outdoor temps
- Output relay and multiple auxiliary outputs
- Adaptable to energy management systems
- Digital display for all system settings
- Settings are stored and will not be lost if power is lost
- Optional remote communication add-on with modem or internet connection package
- Use existing sensors and/or wireless sensors
- Connect as many as 64 sensors to the panel
- Thermal lockout helps eliminate short cycling
- Day (normal) and night (save) modes
- Built in prove and system relay (combustion air and end switch) connections
- Manual shift allows for a temporary override
- Fast cycle for troubleshooting allows control to cycle on seconds rather than minutes
- Can connect to a Multi Mod or SEQ sequencing control
- Bypass allows installers and contractors to test and override the control settings when needed



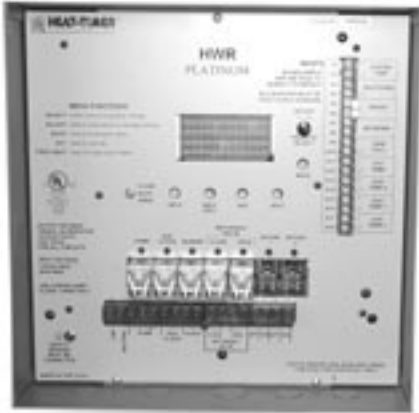
MPC PRICING	
Model	Price
MPC Platinum*	\$4,798.00

\*Includes strap-on sensors and relays



# HWR PLATINUM SERIES

Reset and Sequencing Controls for Hydronic Heating Systems



## Features:

### HWR Platinum

- To control a single boiler or motorized valve – operating with either a 2,3 or 4 way valve or by direct ON/OFF boiler action
- Adjustable outdoor temperature cutoff
- Multiple setback schedules
- Optimum start/stop
- Adjustable reset ratios
- Digital display
- Auxiliary clock

### HWR-Q Platinum

- To sequence up to 8 boiler stages by direct boiler action
- Adjustable outdoor temperature cutoff
- Multiple setback schedules
- Optimum start/stop
- Adjustable reset ratios
- Digital display
- Up to 8 stages of control
  - 8 on/off boilers
  - 4 low/hi fire boilers
- Automatic or manual rotation of lead stage
- Domestic hot water priority mode

### HWR-Q Platinum w/ SEQ12

- To sequence up to 12 boiler stages – utilizing model HWR-Q Platinum and output panel SEQ operating together by direct boiler action
- Adjustable outdoor temperature cutoff
- Multiple setback schedules
- Optimum start/stop
- Adjustable reset ratios
- Digital display
- Auxiliary clock
- Up to 12 stages of control
  - 12 on/off boilers
  - 6 lo/hi fire boilers
- Automatic, manual rotation of lead stage
- Domestic hot water priority mode
- Individual override switches (on/auto/off)
- 2 N.O. contacts per stage (2 N.O. & 1 N.C. on 8th stage)

### HWR-Q Platinum w/SEQ24

- To sequence up to 24 boiler stages – utilizing model HWR-Q Platinum and output panel SEQ operating together by direct boiler action
- Up to 24 stages of control
  - 24 on/off boilers
  - 12 lo/hi fire boilers
- All other specs same as HWR-Q Platinum w/SEQ12

## HWR CONTROL PRICING

Model	Price	NOTES
HWR Platinum	\$3,372.00	Relays and sensors included
HWR-Q Platinum	\$3,704.00	Relays and sensors included
HWR-Q Platinum w/SEQ 12	\$5,812.00	Stage Relays not included
HWR-Q Platinum w/SEQ 24	\$8,464.00	Stage Relays not included

\*Includes strap-on sensors

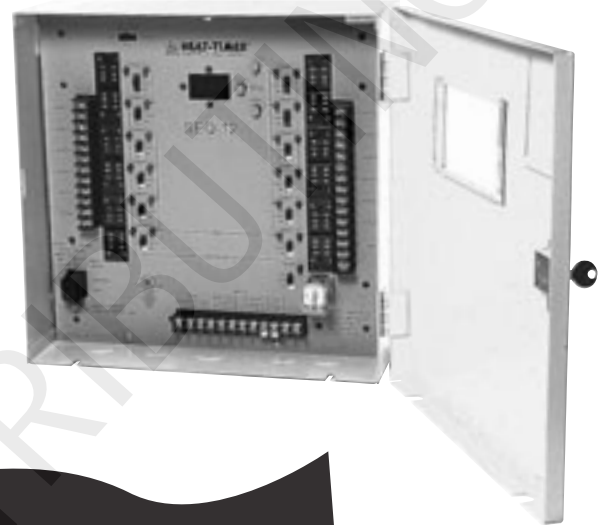


# SEQ – SEQUENCING SET POINT CONTROL

For On/Off, 2 thru 12 Stage or Hi-Lo Units  
for Heating or Cooling Applications

**Features:**

- Sequences up to 12 stages for temperature, pressure or humidity systems
- Only one sensors
- Digital display of all system settings
- Automatic rotation among stages
- Built in multi stage control
- System output is active when any stage is active
- Remote shutdown and remote temperature set point control
- Built in outdoor reset with adjustable reset ratios



**Lead Lag Control  
for up to 12 Stages**

SEQ PRICING	
Model	Pricing
SEQ-6 Sequencer*	\$1,618.00
SEQ-12 Sequencer*	\$2,108.00

\*Does not include sensors or stage relays

MID-LAKES DISTRIBUTING

CONTROLS





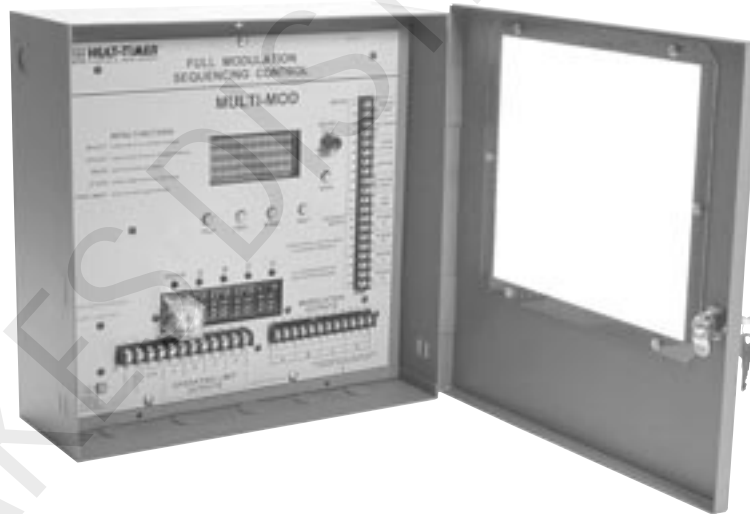
# MULTI MOD

Modulating Set Point Control for Boilers and Chillers

**Lead lag Control  
for up to 4 Stages**

**Features:**

- Sequences up to 4 fully modulating stages for temperature or pressure systems
- Controls 0-5, 0-10, 4-20 mA, or 135 modulating motors
- Only one sensor
- Digital display of all system settings
- Automatic rotation among stages
- Outdoor reset capability
- Connects to energy management systems
- Monitors stage status
- System output is active when any stage is active



MULTI MOD PRICING	
Model	Price
Multi Mod*	\$5,442.00

\*Does not include sensors