

B6000 BOILER MANAGEMENT SYSTEM

Advanced Electronic Boiler Control and Diagnostics Package

The B6000 is more than just a boiler control - the B6000 is a *Boiler Management System*. Sure, the B6000 has the same features that any good boiler control should have - it optimizes firing responses, sequences boilers, rotates lead/lag assignments, even does setback or boost - but it also does what no boiler control can do - it gives you **peace of mind**. That's because the B6000 is not just integrated into your boiler's central nervous system - it is your boiler's central nervous system. Only the B6000 will watch over your boilers twenty four hours a day, seven days a week. Only the B6000 will immediately inform you exactly *what* the problem if there ever is a problem. Only the B6000 will call your maintenance man at 3:18 AM to tell him that boiler #2 just went off line on low gas pressure. Only the B6000 will give you a chance to fix the problem before it really starts to cost you money. It's not just a smart control: it's a smart investment.

Features

Full Boiler Diagnostics

Microprocessor Based

Advanced PID Control Algorithm

Electronic Outdoor Reset

LCD Display Screen

Outdoor Cutoff Feature

Auto Lead/Lag Rotation

Selecset (night setback) Option

Optional Remote Communications Modem

UL and cUL Listed

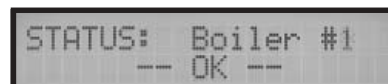
Single Source Responsibility



System Control



Boiler Monitor



System Control LCD Display

Raypak, Inc. reserves the right to make product changes or improvements at any time without notification.

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B6000 Boiler Management System

Control Characteristics

Microprocessor Based
Advanced PID Control Algorithm
Electronic Outdoor Reset
Outdoor Cutoff - Warm Weather Shutdown Outdoor
Ambient Temperature Sensor
Supply Water Temperature Sensor

Electrical Characteristics

120 VAC, < 5 A, 60 Hz

Ambient Conditions

Temperature: -40 to 175°F
Humidity: 90% RH Non-condensing

System Control Module

Controls up to Eight Boilers
- Modulating or Staged Firing
Auto or Manual Lead/Lag Rotation
Primary Pump Control
Back-up Memory Battery

Display and Diagnostic Indicators

LCD Status Display (2 x 20)
System Normal LED - Green
System Fault LED - Red

Adjustable Parameters

Reset Ratio	None to 20:1
Control Band	1 to 9°F
Pump Off Delay	0 to 20 min.
Outdoor Cutoff Temp.	35 to 99°F
Outdoor Cutoff Deadband	1 to 9°F
Maximum Water Temp.	70 to 235°F
Ignition Lockout Time	15 to 100 sec.
Boiler Rotation Interval	0 to 225 hours
Firing Valve Step Increment	5 to 100%
System Degrees Rise	1 to 99°F
Setpoint	105 to 220°F
P, I, and D Constants	Various

Read Only Display Parameters

Current Outdoor Air Temperature
Current System Water Temperature
Target Temperature
Boiler Operating Status
Boiler Manual Override Status
Boiler Fault Indication
Boiler Component Causing Fault
Boiler Firing Valve Position
Boiler Firing Valve Cycle Timing

System Control Module Enclosure

Remote or Boiler Mounted
Lockable Vandal Resistant Enclosure
15 3/16L x 12 1/2W x 4 3/4D

Boiler Monitor Module

Controls and Monitors a Single Boiler
Manual Override for Independent Operation

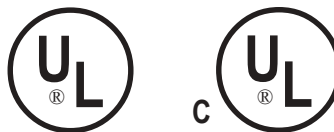
Status and Diagnostic LEDs

Power - Green
Manual Override - Red
Call for Heat - Amber
Boiler Pump - Green
Pilot - Amber
Main Gas - Green
Safety Fault - Red
High Limit - Red
Flow Switch - Red
Ignition Failure - Red
Low Water Cutoff - Red (Optional)
Low Gas Pressure - Red (Optional)
High Gas Pressure - Red (Optional)

Boiler Monitor Module Enclosure

Boiler Mounted
17 1/2L x 18 3/4W x 5 1/2D

Limited One Year Warranty



Optional Accessories

Selecset™ Alternate Setpoint Option

Independent Alternate Setpoints
Up to Six Setback or Boost Periods per Day
Seven Day Clock

NoMin Setpoint Chip Set Option

Lower Setpoint Limit for Special Applications
Setpoint 40 to 220°F

Remote Communications Modem Option

Allows Remote Monitoring and Control
Includes Software