



The Advantage for Superior Heating Efficiency

- Reduces Annual Fuel Consumption by up to 30%
- Delivers Unsurpassed Comfort
- Suitable for Residential and Commercial Applications

Comfortable. Efficient. Intelligent Heating.

Logamatic Controls 2107 - 2109

Buderus Intelligent Heating Systems™ Minimize Temperature Cycling

Whether you heat by baseboard, panel radiators, hydro-air systems or radiant flooring, you can maintain a constant temperature in your home, eliminating the wide temperature swings of conventional heating systems by using a Buderus Logamatic Control. Its advanced microprocessor technology monitors inputs from indoor and outdoor sensors, compensates for the weather, and ensures consistent room temperatures. And unlike conventional systems, the Logamatic control adjusts the water temperature to maintain a desired comfort level, eliminating chills and overheating.

Buderus Logamatic Control 2107

The Logamatic 2107 with outdoor reset capability reduces fuel usage by as much as 30%. By monitoring outdoor as well as indoor temperatures (requires optional BFU), the 2107 maximizes fuel efficiency while delivering unmatched comfort. Space heating, domestic hot water production, and programmable setback are all integrated into a single, intelligent source. The 2107 is suitable for use with any of



today's forced hot water heating options, such as baseboard, panel radiators, hydro-air systems or radiant floors. Easy "plug-in" modules allow you to customize the 2107 to fit your application. Available options include a mixing valve control for radiant floors systems and a burner staging control to operate a 2-stage or modulating burner, or for use in dual boiler systems.

2107 Optional Upgrades

Room Sensor

Use a Buderus Room Sensor for indoor feedback on the main zone for optimum temperature control and maximum room comfort. This control features simple day temperature settings with manual day/night override buttons, LED display for system status, summer mode indicator light, and a Boost function for faster response during early morning operation.

Module FM241

The FM241 Module provides mixed temperature through a Buderus mixing station for low temperature application such as radiant floor systems. An optional indoor sensor is available for optimum control. The FM241 also enables you to program a separate setback schedule for the low temperature system.

Module FM242

The Module FM242 is suitable for residential and commercial applications, giving firing control for dual boiler applications or two-stage burners. It allows burner staging on demand with dynamic burner differential, and features built-in burner hour run meters.

Buderus Logamatic Control 2109

The Logamatic 2109 has the ability to control a boiler (120V or dry contact), a pump or multi-zone relay panel for space heating and a circulator for an indirect fired hot water tank. The 2109 is equipped with a sensor for the domestic hot water



tank, manual reset and adjustable high limits and low limit protection that protects the boiler from low return water temperatures. It also has TT connections to fire the burner for space heating. The 2109 does not have outdoor reset, however domestic hot water priority is selectable.

Quick-Fit™ Modular Piping System



The **Quick-Fit System** takes only minutes to connect and includes all the piping, valves, circulating and control elements to feed both radiant floor heating zones and conventional high-temperature heating zones. Not only will a **Quick-Fit** system save time and money on any boiler installation, it also eliminates incorrect valve or motor installations. Additionally it ensures a clean, finished and professional installation.

The **Quick-Fit** system consists of three main components, the **Quick-Mix Mixing Station** for radiant flooring applications, the **Quick-Pump Station** for high-temperature zones and the **Quick-Header Manifold** for multi-temp heating systems. The **Quick-Fit System** can be used to connect virtually any piping arrangement.

| Feature Comparison | 2107 | 2109 |
|--|-----------|--------|
| Proven Buderus system technology | ■ | ■ |
| All components furnished by a single manufacturer | ■ | ■ |
| Single, comprehensive control contains major components for water heating | ■ | ■ |
| Modular configuration adaptable to various applications and customized to specific regulations | ■ | |
| Simplified installation with color coded plugs | ■ | ■ |
| Outdoor reset controlling | ■ | |
| Domestic hot water priority | ■ | ■ |
| Domestic hot water heating with post purge feature | ■ | ■ |
| Domestic hot water recirculation pump operation | ■ | ■ |
| Programmable day/night setback | ■ | |
| System on/off switch | ■ | ■ |
| Adjustable and high limit manual reset aquastats | ■ | ■ |
| Outdoor sensor | ■ | |
| Boiler and DHW tank sensors included | ■ | ■ |
| Condensate protection feature | ■ | ■ |
| Pump exercising in summer mode | ■ | |
| Freeze protection for DHW tank | ■ | ■ |
| Manual override switch for emergency operation | ■ | ■ |
| Summer/Winter changeover | Automatic | Manual |
| LCD Display | ■ | |
| Self-diagnostic display | ■ | |
| Vacation mode | ■ | |
| System "in sync" with outdoor conditions and automatic shut-off in Spring and Fall | ■ | |
| Optional Room sensors to customize operation with maximum comfort by indoor temperature sensor | ■ | |
| Automatic module recognition | ■ | |
| Simple stepwise procedure to customize control | ■ | |
| Built-in relay test to verify system wiring | ■ | |
| Up to 30% lower fuel bills | ■ | |
| Maximum heating comfort with increased efficiency | ■ | |
| Quieter operation with outdoor reset | ■ | |
| Simple operation through push-and-turn dial concept and digital display | ■ | |

2107 Contractor Benefits

- Integration of all system control aspects with a single control
- Modular configuration adaptable for various applications; customize to specific requirements
- Simplified installation with color-coded plugs
- Easy initial start up using:
 - Automatic module recognition
 - Simple stepwise procedure to customize control
 - Built-in relay test to verify system wiring

2107 Homeowner Benefits

- Up to 30% lower fuel bills compared to other systems
- Unsurpassed heating comfort with increased efficiency
- Quieter heating system operation with outdoor reset
- Simple operation through push-and-turn dial concept and digital display

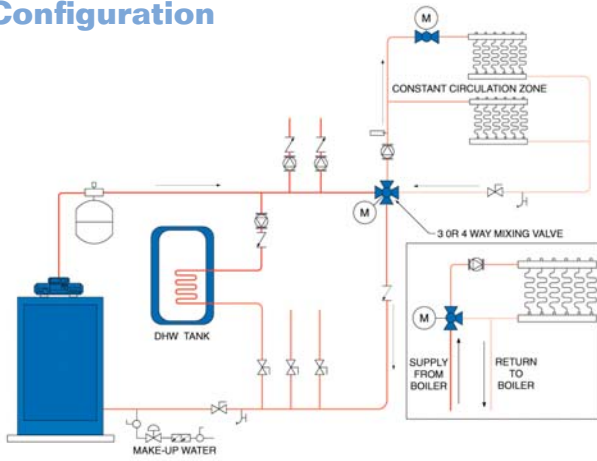
Logamatic Controls

2107 - 2109

The Next Generation in Intelligent Controls

The heart of any home heating system is the intelligent energy control. A Buderus Logamatic Control provides the ability to make finer adjustments than are possible by manually turning the boiler off and on or relying on traditional thermostats. The addition of a Room Sensor (pictured at right) adds the ability to fine tune the temperature for optimum comfort. A Logamatic Control works with most Buderus boilers to complete your heating system and give you convenient control.

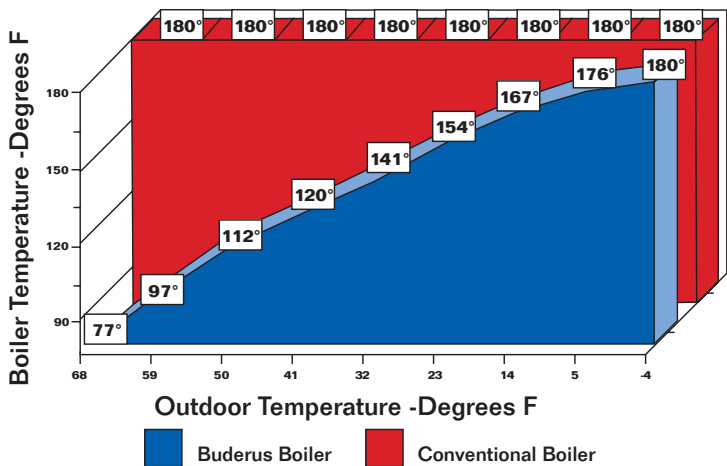
System Configuration



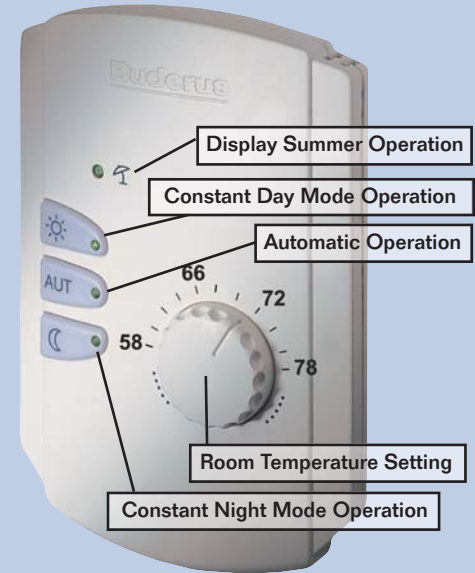
Complete system integration with the R2107 control

Boiler Operating Temperatures

The difference between the constant high operating temperatures of conventional boilers, typically 180° F, and the optimized water temperatures of a Buderus boiler using a Logamatic Control means significant fuel savings.



Room Sensor



Features

- Simple day temperature setting
- Manual day/night mode override buttons
- LED displays for system status
- Summer mode indicator light
- "Boost" function for faster system response during early morning operation

Buderus

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