



# Room automation – The new generation

With the RCN200-L and RCC200-L controls as well as the RBW room control modules, the new generation of Kieback&Peter components for room control meets all requirements of modern, efficient and user-oriented room automation.

- Simple, quick and inexpensive mounting and installation
- Quick and simple configuration
- Intelligent, effective software for energy-efficient control
- Low self energy requirement

- Simple, intuitive operation of the room control modules
- High quality, elegant design for room control modules

The new generation of devices is an advancement of the proven, LON<sup>®</sup>-based technolon<sup>®</sup> system from Kieback&Peter.

It lastingly improves energy efficiency, saves heat and electricity, reduces energy costs and ensures great comfort and user acceptance.

## Overview

- Intelligent, modern room automation for greater energy efficiency and comfort
- Time and cost savings thanks to a complete module with distributor and controller
- Easy to use, elegant room control modules

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Technology for Building Automation

# New generation room controllers – RCC200-L and RCN200-L

The RCC200-L (Room Controller Ceiling) and the RCN200-L (Room Controller Standard Rail) are compact room controllers for high performance, cost effective and energy-efficient room automation.

They offer even greater cost-effectiveness upon installation and greater energy efficiency during operation.

## Flexible applications on a solid basis

The software of both room controllers offers all necessary standard applications for monitoring and controlling temperature and air quality. The integration of cooling and heating elements, radiators, heating and cooling ceilings, window contacts, ventilation and CO<sub>2</sub> monitoring ensures energy efficiency and comfort.

The basic functions can be expanded by means of modular functions.

Energy saving functions, such as

- Energy selection, heating or cooling with outside air
- Free night cooling
- Summer compensation
- Optimization
- Heat recovery
- Energy saving hold with opened windows

improve the energy efficiency and reduce energy costs.

## Cost reduction

The installation of room controllers in inserted ceilings or double floors is often very material and labor intensive, since the controllers have to be installed in distribution housings for security reasons.

The RCC200-L is optimized for this installation. It is a compact, self-contained room controller, which combines controller and distributor housing.

With integrated strain relief, cable cover and retaining clips it meets the safety requirements. No additional distributor housing is required.

Thanks to the lack of a distributor housing and the simpler and faster assembly, the RCC200-L has great cost advantages compared to conventional room controllers.

The RCN200-L is installed on standard rails in installation distributors and control boxes.

## Low energy requirement

Another advantage of the RCC200-L is its low energy requirement. It is equipped with a switching power supply, which uses 80 percent of the energy input. Devices with transformers only utilize about 50 percent of the energy input.

## Overview

- Intelligent, energy-efficient room automation with LON®
- Standard applications with freely configurable functions
- Less installation effort thanks to the RCC200-L complete module with distributor and controller





## Elegant design – Tested user-friendliness RBW room control module

The RBW room control modules satisfy two important requirements.

- With their modern, elegant design, they blend perfectly into different environments.
- The design and intuitive operating concept adapted to the needs and abilities of the user allow the user to quickly and easily create the desired comfort conditions

while better utilizing the energy efficiency potential of room automation.

### Ergonomic design

Building on a basic design, the very thin (16 mm) room controller modules are offered in different versions: with twist knob only, with twist knob and buttons, or with twist knob, buttons and a large, backlit display.

The twist knob and buttons are ergonomically designed, the buttons are marked with easily identifiable icons. By virtue of its large characters and clear layout, the backlit display is easy to read. An interface at the lower edge of the device enables access to the LON network.

### Simple, intuitive operation

Operation of the new room control module is simple, intuitive and effective. The design and the operating concept are based on test results from different user groups.

Inexperienced “casual users” can use the basic functions intuitively, without further explanation, and can set the desired room conditions. Regular “everyday users” receive a manual.

This manual allows easy use of advanced features, such as the integrated timer.

### User-friendliness improves energy efficiency

The simple, intuitive operation ensures user acceptance. Room automation is not perceived as paternalism, but as intelligent, simple and comfortable way to set the room conditions. Simultaneously, room automation is gaining greater acceptance as a technology for greater energy efficiency.

### Overview

- Simple, intuitive operation for users without prior knowledge
- Operation of additional functions is easy to learn
- Ergonomic design
- Elegant design

# Energy efficiency that pays for itself

## RCC200-L and MD15 small actuator

Energy-efficient room automation saves resources and protects the environment and is worthwhile financially.

The savings begin with the self-energy requirement of the devices.

This aspect is gaining increased importance with the EuP Directive, which requires a reduction in the energy consumption of energy consuming products.

An example for the quick amortization of the higher initial investment is the combination of the RCC200-L with the MD15 small actuator.

### Minimal energy requirement

The RCC200-L with switching power supply loses only approximately 20 percent of the input power as heat. Controllers with transformers lose approximately 50 percent and therefore require much more power.

The self-energy requirement of the MD15 small actuator is up to 75 percent less than the energy requirement of comparable thermo-electric actuators.

The combination of the RCC200-L and MD15 consumes significantly

**The combination of RCC200-L and MD15 is an efficiency package. Both devices have low self-energy requirements.**

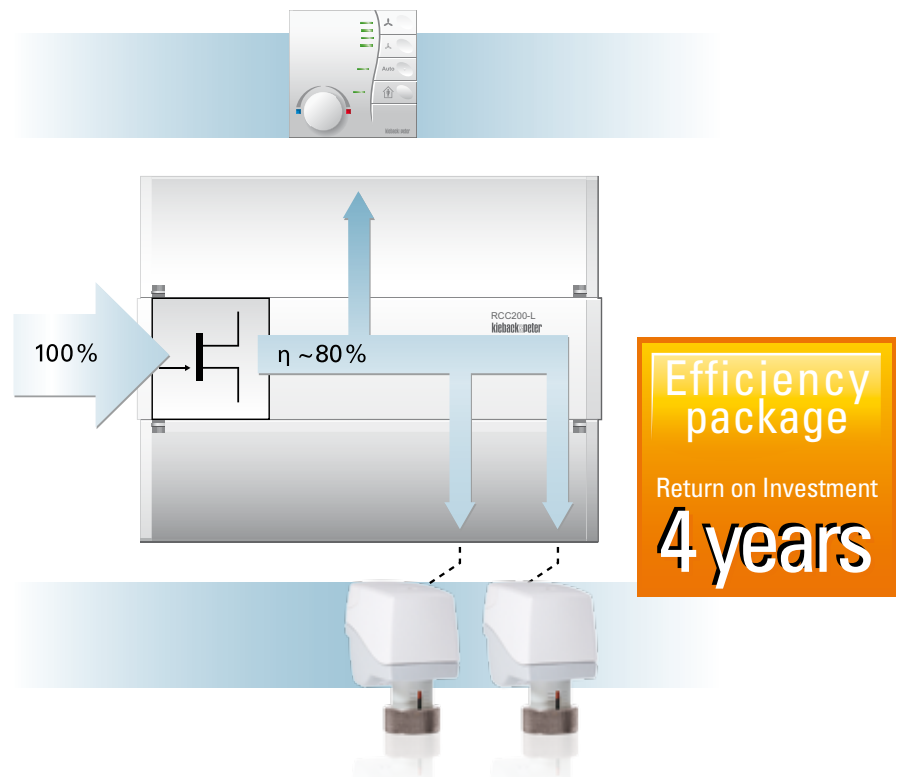
less power than combinations of other controllers with thermal actuators. The return on investment compared with the combination of controller and thermo drive already begins after four years (based on an electricity price of 20 ct/kWh).

### Energy efficiency package

Even in the case of efficient room temperature control, the RCC200-L and MD15 efficiency package is superior to other solutions. Thanks to accurate control, the continuous drive of the MD15 works much more efficiently than a 2-point thermo drive. You benefit from higher energy savings, increased comfort and lower costs.

### Overview

- High energy efficiency thanks to low self-energy requirement
- Fast return on investment thanks to energy cost savings
- Higher energy savings potential than comparable systems



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