

UNIVERSAL RETROFIT SOLUTION FOR INDUSTRIAL DOORS

# KONE UniPower™ Retrofit

## Universal retrofit solution

KONE UniPower™ is a universal solution for overhead sectional doors. It includes a selection of motors and a control box. By modernizing both the motor and control box you get the full benefits of the complete modernization solution. The KONE UniPower Retrofit not only meets all the latest technical and regulatory requirements but also reduces energy costs in your building.

For repair purposes, KONE UniPower includes a wide selection of motors to suit various existing doors. For fast repairs and minimum downtime, parts are immediately available in technicians' vans.

## Quick and easy maintenance

Maintenance is easy with the UniPower, enabling you to keep it working efficiently with minimum downtime. Maintenance requests are clearly displayed on the control unit's LED display for quick diagnosis by the technician.

## Key benefits

- Reliable operation due to efficient motor and control box
- Universal solution for overhead sectional doors
- Reduces energy losses with faster and more reliable operation
- Meets latest technical, environmental and European regulatory norms and standards
- Quick installation, minimum downtime
- Easy maintenance
- Immediately available from technician's van as fit kit



Work in a warehouse is more efficient with the KONE UniPower Retrofit. With the remote control accessory, drivers can open and close doors without getting out of the forklift.

# Modernization packages - get maximum benefits with the complete solution

### A complete solution in a few hours

The KONE UniPower™ is a new modernization solution for industrial doors. It's quick to install, and it opens and closes the door fast to save energy and increase efficiency in a warehouse.

### Enhanced safety and reliability

The KONE UniPower complies with the latest standards regarding safety, durability and efficiency. The UniPower solution enables you to add the latest safety components to your doors to ensure that they meet all EU safety norms and standards.

### Reduced energy losses

Due to the faster opening and closing of the doors, there is less loss of warm or cold air, reducing air-conditioning or heating costs. The KONE UniPower also reduces noise, since it is quieter than standard industrial door operators.

### Two KONE UniPower modernization packages

There are two KONE UniPower solutions, depending on the door usage and customer's requirements. For buildings in low to medium use, without stringent environmental requirements, KONE UniPower Plus is a suitable solution. For buildings where the doors are in

heavy, constant use, the KONE Unipower Plus FU is the ideal solution. This solution can repay the investment in less than a year.

### Increased convenience

The KONE UniPower opens and closes the door faster, so warehouse employees spend less time waiting. With the remote control accessory, drivers can open and close the door without getting out of the forklift. The operator system protects the door more than other operators and increases the door's lifecycle.

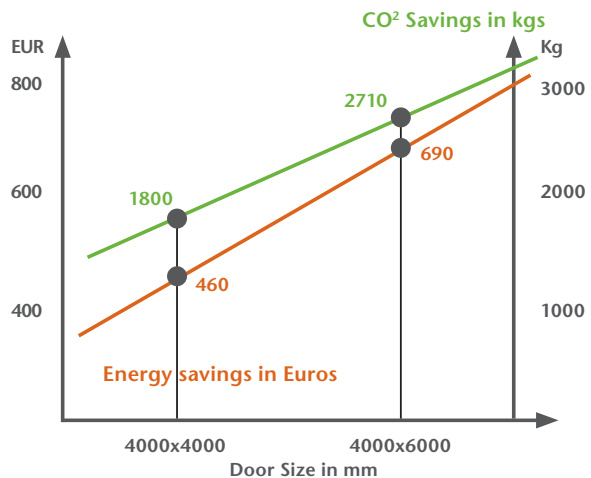


The KONE UniPower is immediately available in the technician's van. With plug and play installation, it can be installed in a matter of hours.

### Modernization packages

KONE UniPower Plus	
Application	Overhead sectional doors
Max door weight	550 - 700 kg
Max door size	20 - 55 m <sup>2</sup>
Type of fitting	High-lift, normal, low headroom and vertical fitting
Motor	KONE UniPower™ Motor Plus
Control	Universal control box
Voltage	230/400V, 3 phase, 50Hz
KONE UniPower Plus FU	
Application	Overhead sectional doors
Max door weight	550 kg
Max door size	40 m <sup>2</sup>
Type of fitting	High-lift, vertical, normal, low headroom
Motor	KONE UniPower™ Motor PLUS FU (frequency converter), chain release, maintenance release
Control	Universal control box
Voltage	230 V, 1 phase, 50 Hz

### Energy savings with KONE UniPower Plus FU modernization package - payback in less than one year



Assumptions: 1) Cold air flow assumed by 5°C outside temperature and 20°C interior temperature metered in m<sup>3</sup>/h related to m<sup>2</sup> gate opening (existing from building geometry and wind load). 2) Thermal efficiency factor for heat supply: 85% 3) Price of fuel oil: 0,77 EUR/l (based on: 01.02.2011)

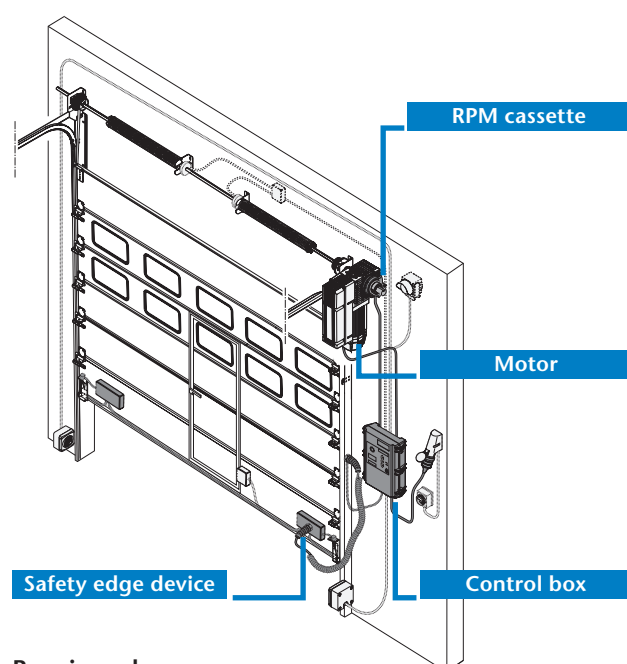
## Quick component repair - minimum downtime when replacing motor or control box

With UniPower™ repair packages, fixing existing door systems is fast and reduces downtime.

### Fast repairs, minimum downtime

The KONE UniPower components are immediately available in the technician's van for quick replacement if a part is damaged. With this modular solution, only the damaged component, either the motor or the control box, needs to be replaced.

### Key components



### Repair packages

	UniPower Motor Kit1	UniPower Motor Kit2	UniPower Motor Kit3	UniPower Motor Kit4	UniPower Motor Kit5	UniPower Control Kit
Application	Overhead sectional doors	Overhead sectional doors	Overhead sectional doors	Overhead sectional doors	Overhead sectional doors	Universal control box for almost all sectional doors
Max door weight	550 kg	550 kg	250 kg	250 kg	700 kg	
Max door size	45 m <sup>2</sup>	45 m <sup>2</sup>	20 m <sup>2</sup>	20 m <sup>2</sup>	55 m <sup>2</sup>	
Type of fitting	High-lift or vertical fitting	Normal fitting or low headroom	High-lift or vertical fitting	Normal fitting or low headroom	High-lift, vertical, normal, low headroom	
Motor	UniPowerMotor™ UNI, chain release, maintenance release	UniPowerMotor™ UNI, chain release, maintenance release	UniPowerMotor™ UNI, chain release, maintenance release	UniPowerMotor™ UNI, chain release, maintenance release	UniPowerMotor™ UNI, chain release, maintenance release	
Voltage	230 V / 400 V, 3 phase	230 V / 400 V, 3 phase	230 V, 1 phase	230 V, 1 phase	230 V / 400 V, 3 phase	230 V / 400 V, 3 phase, 50 Hz motors up to power of 1.1 kW

Each Motor Kit can be combined with the Control Kit.

### Accessories

Safety devices:	Description
Oneway photocell	Optical safety device for protection against personal injuries and material damage
Optosensor system	Safety system in the bottom door profile
Wicket door contact	Monitoring closed position of the wicket door
Signal light with different colors	Signal message, warning signal

Command devices:	Description
Push button	OPEN/STOP/CLOSE
Main isolator switch	Fast interruption of power supply
Radar motion detector	Non-contact impulse for activating operator systems by approaching the door
Induction loop	Non-contact impulse for activating operator systems by driving over a loop laid in the ground
Hand transmitters	Radio impulse for door operation
Multi-channel transmitter	999 channels / doors
4-channel code transmitter	Radio impulse by using PIN-codes
Universal remote receiver	Upgrading of external control units with remote control



KONE provides innovative and eco-efficient solutions for elevators, escalators and automatic building doors. We support our customers every step of the way; from design, manufacturing and installation to maintenance and modernization. KONE is a global leader in helping our customers manage the smooth flow of people and goods throughout their buildings.

Our commitment to customers is present in all KONE solutions. This makes us a reliable partner throughout the life-cycle of the building. We challenge the conventional wisdom of the industry. We are fast, flexible, and we have a well-deserved reputation as a technology leader, with such innovations as KONE UniDrive® and KONE Hermetic Sealing Doors. You can experience these innovations in architectural landmarks such as the Philips headquarters in Eindhoven, the Netherlands; the Metro Italia in Milan, Italy; the Sahlgrenska Sjukhuset hospital in Gothenburg, Sweden; and the Academic Medical Center in Amsterdam, the Netherlands.

KONE employs approximately 34,000 dedicated experts to serve you globally and locally in over 50 countries.

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