

# KONE ReSolve™

## ELEVATOR CONTROL SYSTEM

### ReSolve modernization benefits

KONE ReSolve is a modernization solution for elevator control and electrical systems, based on the latest in control technology. The KONE ReSolve control system replaces outdated technology such as relays and older electronic systems, improving the levels of performance, reliability, safety and energy efficiency of your elevator(s). The modular structure of KONE ReSolve is designed to correctly interface with many types of existing elevator components, ensuring a swift, trouble-free installation.



KONE is committed to providing our customers with the highest quality, safest and most eco-efficient products available in today's marketplace. We have been included in *Forbes* Top 100 most innovative companies in the world for the past four years.

\* Figure based on data measurement before and after a modernization using KONE ReSolve.

### Key benefits

- Non-proprietary design
- State-of-the-art technology
- Fast installation
- Minimized building disturbance
- Potential energy rebates from their local utility companies

### Eco-efficient

- Regenerative Drive System
- Up to 40% reduction in energy consumption
- Produces clean regenerative power with harmonic distortion <8%
- Reduces energy consumption with unused power returned back to the building grid

### Safety

- Compliance with local, state and national elevator codes
- Accurate floor leveling
- Emergency Battery Device optional (EBD)

### Reliability and ride comfort

- Optimum reliability achieved with the latest control technology
- Increased tenant and end-user satisfaction
- Achieves superior ride comfort through optimum speed curves and reduced in-car vibration

### Versatile

- Available for both passenger and freight applications

### Improved energy efficiency

KONE ReSolve includes a Variable Voltage Variable Frequency (V3F) regenerative drive system. This technology enables considerable energy savings by recovering unused energy and returning it to the building's electrical systems. This can amount to a 40% reduction in energy consumption in a typical mid-rise building application.\*

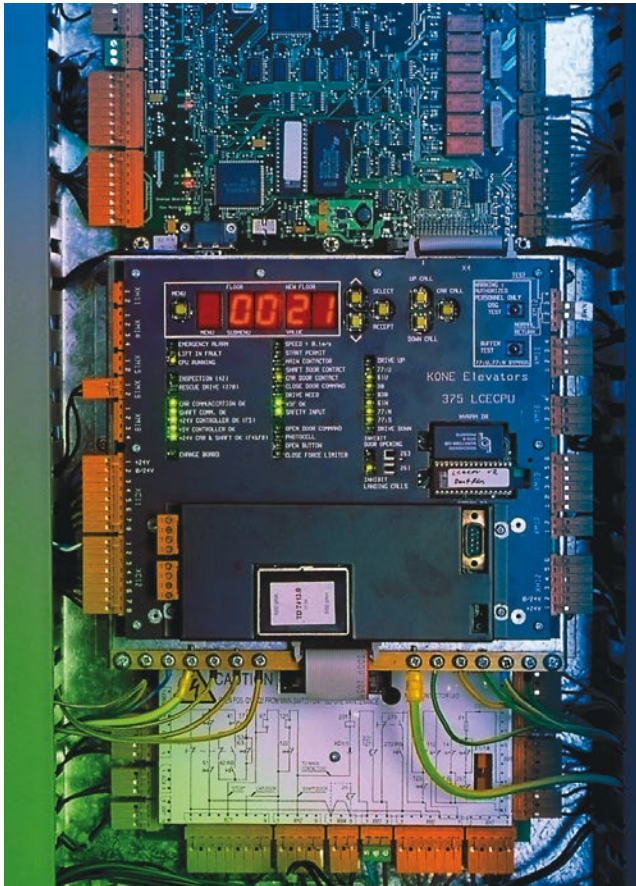
## For a wide range of elevators

KONE ReSolve™ is designed for low- to mid-rise applications, such as residential buildings, office buildings, hotels and hospitals. KONE ReSolve can be installed on most types of geared traction elevators, whatever their origin, age and specifications.

### The KONE ReSolve package includes:

- KONE ReSolve control system
- Regenerative drive system
- Machine room wiring
- Shaft wiring
- Positioning and safety switches
- Interface units for existing door operator(s) and signalization devices
- KONE Remote Monitoring System™ for two-way communications to KONE Customer Care Center™

Specifications		
	ReSolve-ReGen	ReSolve-AC
Max Speed	450 fpm (2.25 m/s)	350 fpm (1.75 m/s)
Max Travel	820 ft. (250 m)	393 ft. (120 m)
Max Openings	63	32
Max Elevators in Group	8	8
Max Starts/Year	400,000	300,000
Leveling Accuracy	+/- ¼ in (+/- 6 mm)	+/- ¼ in (+/- 6 mm)
Drive System (rope elevators)	V <sup>3</sup> F Fully Regenerative	V <sup>3</sup> F closed-loop control



KONE's ReSolve control system includes on-board diagnostics eliminating the need for an external service tool. All preventive maintenance, testing and adjustment functions are facilitated through the use of on-board diagnostics.



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For the latest product information and interactive design tools, visit [www.kone.us](http://www.kone.us)

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