

KONE REFRESH™

# Modernization solutions for elevator cars

## Modular car modernization

KONE ReFresh™ is a car modernization solution that has been developed to integrate smoothly with existing installations. The KONE ReFresh™ R-series solution, including automatic doors, is specifically designed for elevator installations in residential buildings. The KONE ReFresh™ C-series car solution is for the most demanding applications requiring the highest standard of ride comfort.



*KONE supplies a series of car interiors inspired by nature, with cozy and warm looks, soft lighting and earthy natural colors.*

## Energy-saving lighting solutions

KONE ReFresh cars can be equipped with energy-efficient lighting solutions, either fluorescent tubes or LED spots. Compared with halogen lights, LED lights reduce energy consumption by 80%. They also last up to 12 times longer, which makes them safer, since the lights so rarely burn out.

## Key benefits

- A quick and easy way to upgrade the appearance of your elevator

## Eco-efficient

- Eco-efficient car lighting (LED down lighter, high-efficiency fluorescent tubes)\*

## Safe and accessible

- Complies with EN81 - 80 (European Safety Standard)
- Complies where practicable with EN81-70 (European Accessibility Standard)
- Complies with EN81-72 (European Firefighting Standard)\*
- Complies with EN81-71 (European Vandal Resistance Standard) \*
- Exceptional levels of ride comfort and noise reduction

## Aesthetic

- Wide selection of design inspired car finishes with mix & match possibility
- Color cool walls
- Option for semi scenic glass walls

## Reliable

- Robust construction for demanding environments
- Supplied as a complete package including car doors and operator equipment

\*Optional

# Modular elevator car modernization

## KONE Refresh R-Series

The KONE ReFresh™ R-Series modernization package is designed to modernize car-door-less elevators in residential buildings, small hotels and offices. The KONE ReFresh™ car is designed to be so light that the installation of the car door doesn't change the balance of the elevator.

### Walls

Durable, lightweight stainless steel and high-pressure laminates

### Ceiling

Aluminum, white laminate or stainless steel  
Fluorescent tube lighting or energy-saving LED spot lights

### Mirror

Small, medium and large

### Floor

Tarkett rubber carpet, thickness 2 mm or 3 mm  
coin carpet

### Handrail

Stainless steel

### Car Operating Panel

The Car Operating Panel is based on the KSS 430 series COP. Surface mounted, full height, fulfils handicap norms.

### Door

Available with folding, slim, and standard doors  
When adding automatic doors to an existing car-door-less elevator, KONE uses a very slim solution - only 62 mm. In this way the existing load capacity can be maintained without losing significant car depth. KONE also provides doors for modernizing existing automatic doors.

### Options

Window, balustrade, sill extension



*Choose cool winter or the warmth of summer. The KONE FourSeasons™ collection enables you to select from a wide range of design solutions to find the one that matches your building's interior.*

Application series	KONE ReFresh™ R-series	KONE ReFresh™ C-series
Max number of floors	24	24
Max speed	1.6m/s	1.6m/s
Load	160-1000kg	160 - 1150kg
Max floor area	2.4 m <sup>2</sup>	2.65 m <sup>2</sup>
Door opening width	600-1200 mm	700 - 1500mm
Car width	650-1200 mm	900 - 2150mm
Car depth	650-2100 mm	750 - 2400mm
Car height	to 2185 mm	to 3250mm

## KONE Refresh C-Series

KONE ReFresh™ C-series is a modular car interior system designed to create individual interiors for demanding buildings. There is a wide range of designs and materials available. You can also order a custom elevator with zinc-coated wall finishes, allowing local decorations.

### Walls

Zinc coated, metal coated, stainless steel, laminates, wood veneer laminates, real wood veneers, striped stainless steel combinations, glass and stainless steel combinations  
KONE Nature Inspired Design wall combinations: Sunrise, Midday, Twilight  
Energy-efficient LED lighting option available

### Ceiling

Brushed or polished stainless steel, or painted white  
Fluorescent tube lighting or energy-saving LED spotlights

### Mirror

Clear or smoked  
On one, two or three walls  
Full and partial width and height

### Floor

Rubber, high-pressure laminate, real wood laminate, composite stone, vinyl, stainless steel or aluminum tear plate, plywood

### Handrail

Brushed or polished stainless steel  
Material options: Oak and Beech

### Car Operating Panel

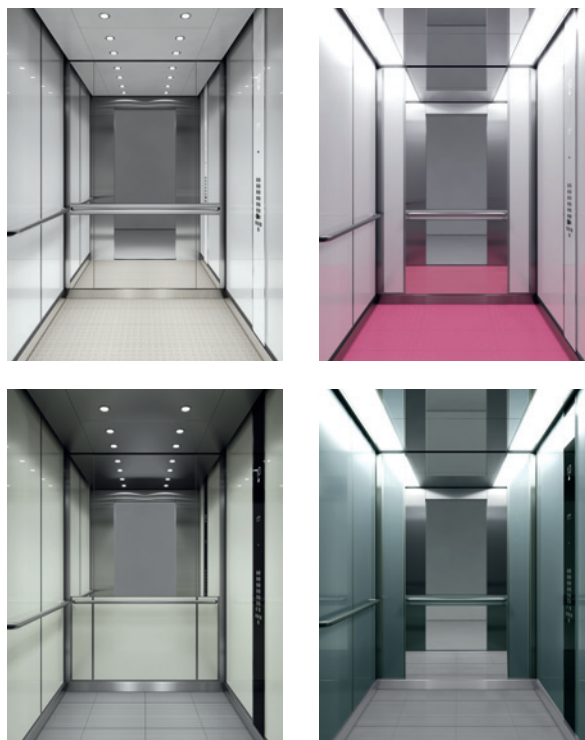
The COP can be chosen from KSS 420, KSS 470, KSS 670, KSS 970, KSS 130 or KSS D-series. KSS 305 series is recommended only with a custom car. KSS 130 is a vandal resistant signalization series, designed to fulfil EN81-71 Category 1 requirements.

### Door

ReNova 600 car doors included  
Optional: ReNova 800 car doors

### Options

Trap door, seat, loudspeaker, fan, glass wall, sound insulation  
Fire fighting elevator EN81-72  
Vandal resistant car EN81-71



*The KONE FourSeasons™ collection has been designed by professional interior architects.*



*You can also mix and match the available components to create a unique car interior for both KONE ReFresh C-series and R-series cars. There are thousands of possible combinations.*



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 MonoSpace®, KONE MaxiSpace™, and KONE InnoTrack™. You can experience these innovations in architectural landmarks such as the Trump Tower in Chicago, the 30 St Mary Axe building in London, the Schiphol Airport in Amsterdam and the Beijing National Grand Theatre in China.

KONE employs over 32,500 dedicated experts to serve you in over 50 countries.

KONE Corporation  
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