

Dedicated to People Flow™



MACHINE ROOM-LESS PERFORMANCE IN A HYDRAULIC ELEVATOR HOISTWAY

KONE EcoSpace™

The Revolutionary MRL Elevator Concept

The secret behind the KONE EcoSpace elevator is the permanent-magnet, gearless KONE EcoDisc® motor. KONE's Machine Room-Less technology eliminates the need for a machine room by attaching the hoisting machine to the guide rail, and placing all control and logic systems in an integral control space.

Greater efficiency

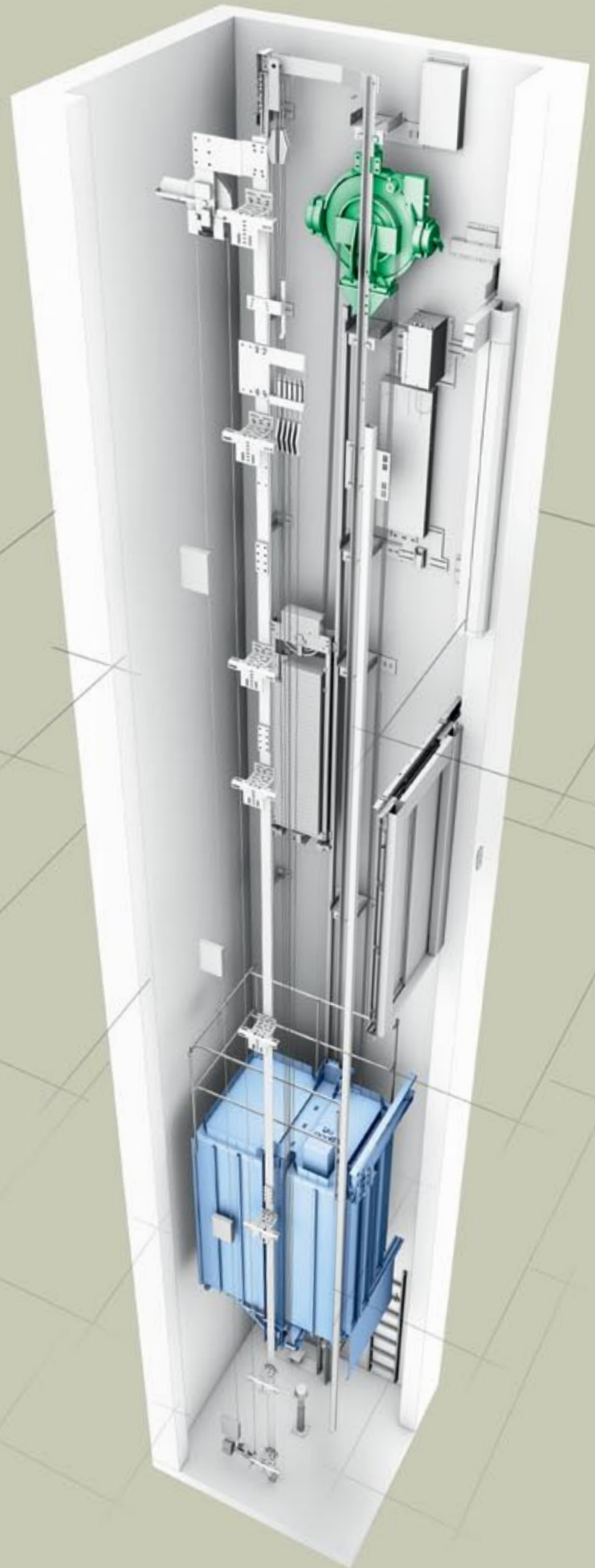
The revolutionary KONE EcoDisc weighs less than half of a conventional geared traction machine, and has only one moving part. Its efficiency is three times that of a hydraulic power unit and uses 70% less energy – a savings which can represent half or more of the annual cost of the elevator operation.

Space savings

KONE EcoSpace does not need a separate machine room thanks to the KONE EcoDisc hoisting motor, which is so compact that it can be located in the shaft.

Simplified installation

The whole elevator fits inside the shaft, simplifying the building interface and saving space for more profitable use. This also speeds up the installation process, since no scaffolding or crane is needed.



KONE EcoDisc – gearless energy saver

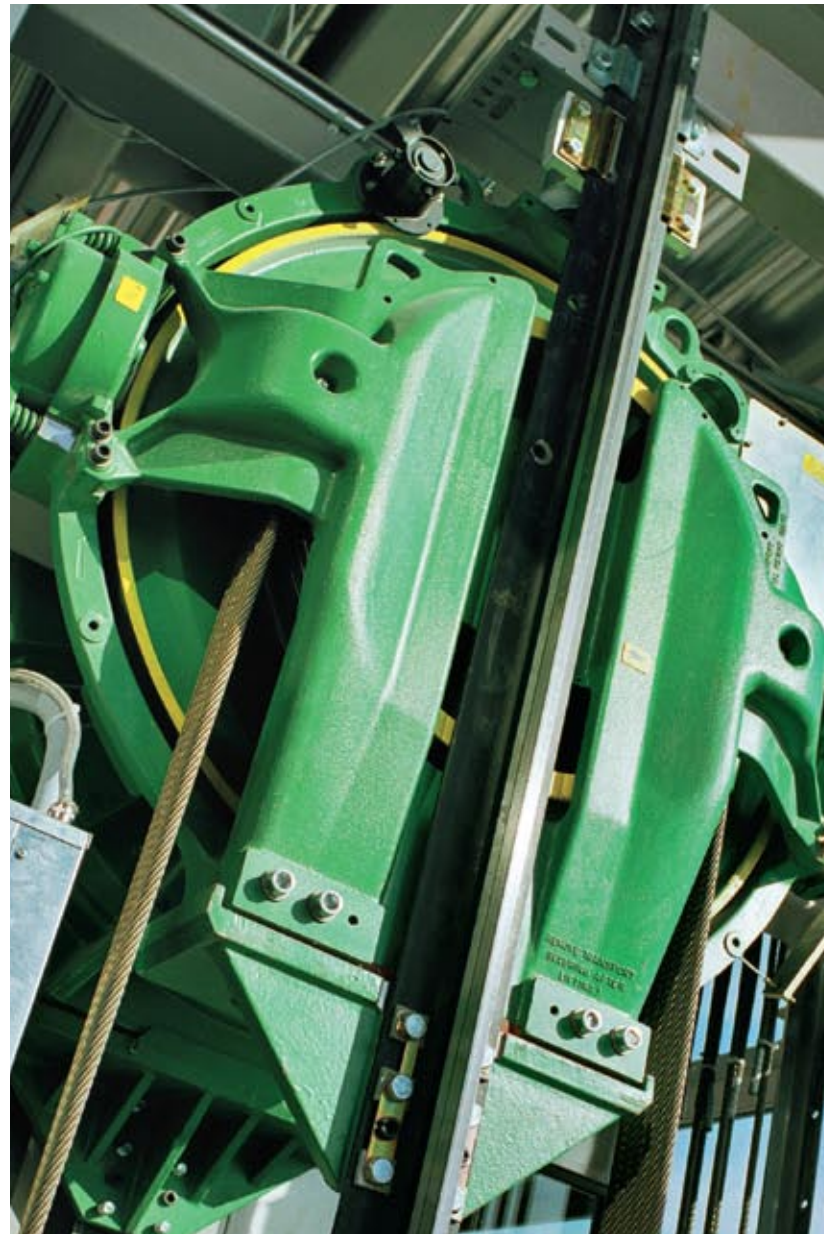
KONE took the technological lead in the elevator industry by developing the KONE EcoDisc hoisting machine. With over 400,000 installations worldwide, KONE continues to develop MRL technology while focusing on energy and space efficiency, reliability and excellent ride comfort. The KONE EcoDisc is the core technology for all KONE Eco-efficient™ gearless elevators. It employs a permanent-magnet synchronous motor, frequency control and low-friction gearless construction.

Regenerative System

The energy consumption of a KONE EcoSpace can be further reduced with the installation of a Regenerative Drive System.

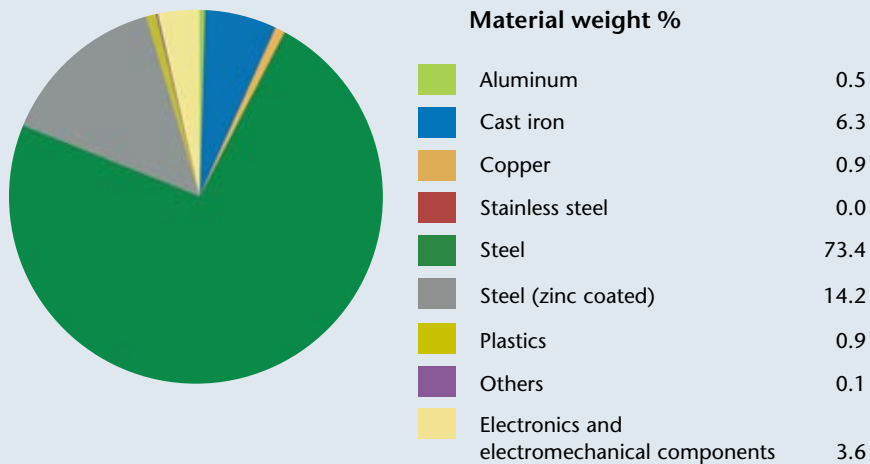
- This option recovers excess energy from the elevator when the KONE EcoDisc motor acts as a generator
- This most notably occurs with an empty car traveling UP or a full car traveling DOWN
- Can recover up to 25% of the total energy used by an elevator
- Produces clean and safe energy that does not damage the network

KONE’s MRL technology has successfully helped projects earn LEED credits in the Energy & Atmosphere and Innovation & Design categories.



Product material content

KONE EcoSpace is mainly composed of steel and cast iron.



The metals, which are about 97% of the elevator material weight, are recyclable.

The product does not contain asbestos, paints containing lead or cadmium pigments, condensators containing PCBs or PCTs, ozone layer depleting chemicals such as CFCs, or chlorinated solvents. Mercury is not used in applications other than lighting and batteries. Cadmium stabilizers are not used in plastics.

Aesthetic Options for Your New Elevator

The KONE EcoSpace elevator offers a wide selection of cabs, entrances and signalization to enhance the look of your building at an affordable price.

For KONE, the goal is to create the best possible user experience. A smooth ride and reliable performance ensure the ideal people flow, while the car interior design creates an aesthetically pleasing experience for each passenger. For additional aesthetic interior offerings, reference the KONE Design Collection Catalog.

Ceilings

Several ceiling designs are available for KONE EcoSpace elevator cabs.

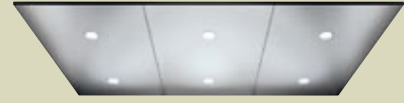


LF-1

Panels
Polygal Translucent

Frame
Brushed Aluminum

Lighting
T-5 Fluorescent



LF-88

Panels
Stainless Steel with Satin Finish

Lighting
Round LED*



LF-2

Panels
Stainless Steel with Satin Finish

Lighting
T-5 Fluorescent



LF-97

Panels
Stainless Steel with Satin Finish

Lighting
Square LED*



LF-94

Panels
Stainless Steel with Satin Finish

Lighting
T-5 Fluorescent



LF-98

Panels
Stainless Steel with Satin Finish

Lighting
Rectangular LED*

**Six light fixtures for Passenger Shape and nine light fixtures for Service Shape.*

For additional aesthetic offerings reference the KONE Design Collection Catalog, or visit www.kone.us for the latest job-specific Cab Designer Tool, CAD drawings and specifications.

Handrails



1.5" Round in
Brushed Aluminum,
Stainless Steel with
Satin finish



2" Flat in Stainless
Steel with Satin finish



2" Round in Stainless
Steel with Satin finish



3" Flat in Stainless
Steel with Satin finish



1.5" Flat in Stainless
Steel with Satin finish



4" Flat in Stainless
Steel with Satin finish

Walls

Choose from a wide variety of high-quality interior materials. Multiple combinations of wall and ceiling materials are available, allowing you to match virtually any lobby design.



Additional aesthetic offerings now available.

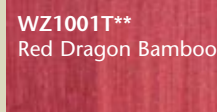
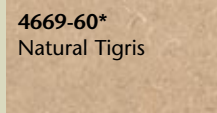
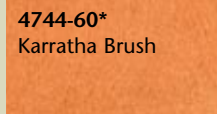
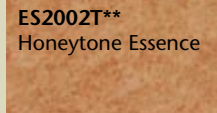
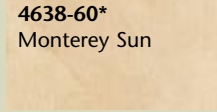
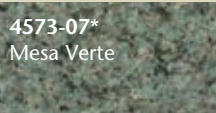
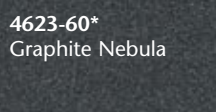
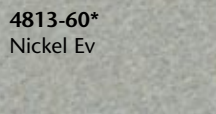
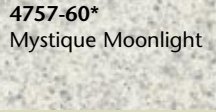
To reduce our carbon footprint, KONE has begun using QR – or Quick Response – codes, which are an environmentally-friendly alternative to printed materials.

Simply scan this QR code with your Smartphone and you'll be taken to the EcoSpace architectural toolbox where you can create job-specific CAD drawings and specifications. Or just type in this shortened URL link – bit.ly/estool.

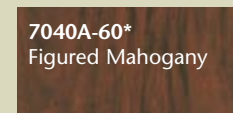
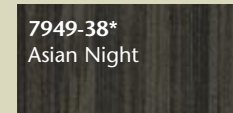
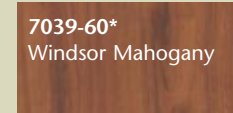
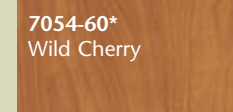
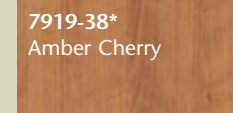
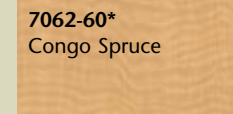
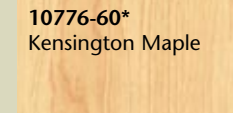
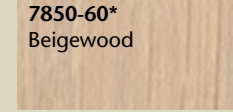


In addition, you can find our products with ARCAT at www.arcata.com.

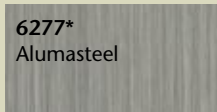
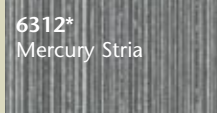
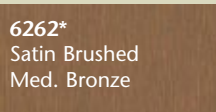
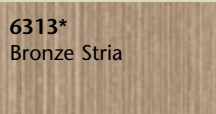
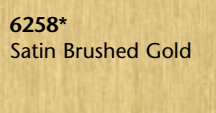
Color Finishes



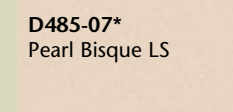
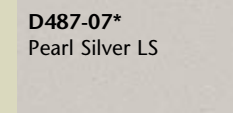
Wood Finishes



Metal Finishes



Pearlescent Finishes



Scottish Quad Rigidized Stainless Steel

Laminate Brands

- * Wilson Art
- ** Nevamar

For additional aesthetic offerings reference the KONE Design Collection Catalog, or visit www.kone.us for the latest job-specific Cab Designer Tool, CAD drawings and specifications.

Signalization

KONE KSS 370, 500 and KONE Design Signalization enhance the look of your elevator. KSS 140 Vandal Resistant Signalization is impact, scratch, burn and splash resistant.



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KONE EcoSpace Planning Guide

Max Travel

100 ft. (30.5 m)

Max Landings

12

Speed⁽¹⁰⁾

150, 200 fpm

(.75, 1.0 m/s)

Car Height **F**

8, 9 or 10 ft.

(2438, 2743 or 3048 mm)

Entrance Height **G**

7, 8 or 9 ft.

(2134, 2438 or 2743 mm)

Minimum Overhead Height **H**

13 ft. 1 in. (8 ft. cab)

(3988 mm [2438 mm cab])

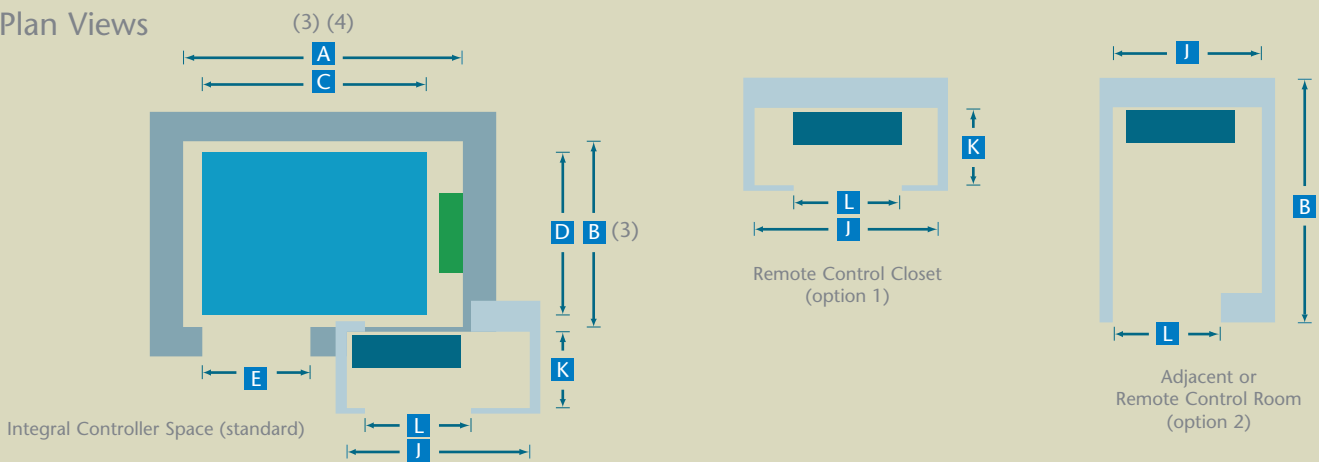
Pit Depth **I**

5 ft. (1524 mm)

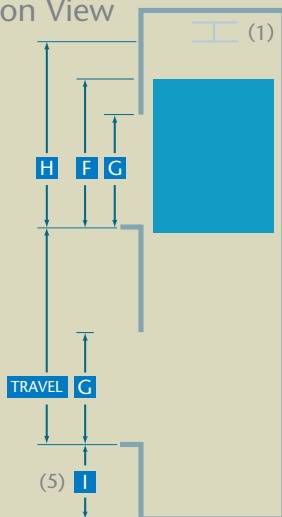
			A	B	C	D	E	
	CAPACITY LBS. (kg)	OPENING TYPE	HOISTWAY WIDTH (mm)	HOISTWAY DEPTH (mm)	INTERIOR WIDTH (mm)	INTERIOR DEPTH (mm)	DOOR WIDTH (mm)	
Front Opening	PASSENGER	2000 (907)	SSP	7'-4" (2235)	5'-9" (1753)	5'-8" (1727)	4'-3" (1295)	3'-0" (914)
		2500 (1134)	SSP-CO	8'-4" (2540)	5'-9" (1753)	6'-8" (2032)	4'-3" (1295)	3'-6" (1067)
		3000 (1361)	SSP-CO	8'-6" (2591)	6'-3" (1905)	6'-8" (2032)	5'-0" (1524)	3'-6" (1067)
		3500 (1588)	SSP-CO	8'-6" (2591)	6'-11" (2108)	6'-8" (2032)	5'-6 ³ / ₁₆ " (1681)	3'-6" (1067)
Front & Reverse Opening	SERVICE	4000 (1814)	CO	9'-4" (2845)	6'-11" (2108)	7'-5 ¹ / ₁₆ " (2281)	5'-6 ³ / ₁₆ " (1681)	4'-0" (1219)
		4500 (2041)	2SP	7'-4" (2235)	9'-2" (2794)	5'-6 ³ / ₁₆ " (1681)	7'-7 ¹ / ₁₆ " (2323)	4'-0" (1219)
		5000 (2268)	2SP	7'-4" (2235)	9'-8" (2946)	5'-6 ³ / ₁₆ " (1681)	8'-1 ¹ / ₈ " (2473)	4'-0" (1219)
Front & Reverse Opening	PASSENGER	2000 (907)	SSP	7'-4" (2235)	10'-2 ¹ / ₄ " (3105)	5'-8" (1727)	7'-7 ¹ / ₁₆ " (2323)	4'-0" (1219)
		2500 (1134)	SSP-CO	8'-4" (2540)	10'-2 ¹ / ₄ " (3105)	6'-3 ¹ / ₄ " (1911)	8'-9 ³ / ₁₆ " (2672)	4'-0" (1219)
		3000 (1361)	SSP-CO	8'-6" (2591)	10'-2 ¹ / ₄ " (3105)	6'-3 ¹ / ₄ " (1911)	8'-9 ³ / ₁₆ " (2672)	4'-0" (1219)
		3500 (1588)	SSP-CO	8'-6" (2591)	10'-2 ¹ / ₄ " (3105)	6'-8" (2032)	8'-9 ³ / ₁₆ " (2672)	4'-0" (1219)
Front & Reverse Opening	SERVICE	4000 (1814)	CO	9'-4" (2845)	10'-1 ¹ / ₂ " (3086)	5'-8" (2032)	7'-7 ¹ / ₁₆ " (2323)	4'-0" (1219)
		4500 (2041)	2SP	7'-4" (2235)	10'-7 ¹ / ₂ " (3238)	6'-8" (2032)	8'-1 ¹ / ₈ " (2473)	4'-0" (1219)
		5000 (2268)	2SP	7'-4" (2235)	11'-3 ¹ / ₄ " (3435)	7'-5 ¹ / ₁₆ " (2267)	8'-9 ³ / ₁₆ " (2672)	4'-0" (1219)

Control Space			J	K	L
	CAPACITY LBS. (kg)	CONTROLLER SPACE	WIDTH (mm)	DEPTH (mm)	DOOR WIDTH (mm)
	2000 to 5000 (907 to 2268)	integral or remote closet	4'-0" (1219)	1'-8" (508)	3'-6" (1067)
	2000 to 5000 (907 to 2268)	adjacent room	5'-0" (1524)	dimension (B)	3'-0" (914)

Plan Views



Section View



Notes

- (1) A hoist beam (by KONE) is required for installation (by others). Dimension **H** reflects clear under hoist beam.
- (2) If an EBD (Emergency Battery Device) is required please contact your KONE Sales Professional for further detail regarding dimension **J**.
- (3) The published hoistway **A** x **B** dimensions represent the minimum clear inside requirements. Construction efficiencies can be realized by increasing these dimensions by up to 2" (51 mm).
- (4) For seismic zones, add 4" (102 mm) to dimension **A** for 2000 lb. (907 kg) and 2500 lb. (1134 kg) capacity applications.
- (5) For seismic zones add 2" (51 mm) to dimension **A** for 3000 lb. (1361 kg) and 3500 lb. (1588 kg) capacity applications.
- (6) For pit depths less than 5' (1524 mm) please contact a KONE Sales Professional.
- (7) If occupied space exists below the hoistway, consult your KONE Sales Professional.
- (8) All dimensions are based on an 8'-0" (2438 mm) cab with a 7'-0" (2134 mm) door. Alternate car and door heights are available, but will affect dimension **H**.
- (9) Contact your local KONE Sales Representative regarding local code variations when utilizing the integral and remote closet options.
- (10) 150 fpm (.75 m/s) only available up to 85 ft. (25 m) of travel and 10 landings.
- (11) 200 fpm (1.0 m/s) only available for 2000 lb. (907 kg) through 3500 lb. (1588 kg) capacity applications.

Visit www.kone.us for the latest job-specific details, CAD drawings, specifications, electrical data, reaction loads and building access requirements.



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