

PASSENGER ELEVATORS MACHINE-ROOM-LESS SYSTEM



NEXIEZ -NEZ





Principle

Based on our policy, "Quality in Motion", we provide elevators and escalators that will satisfy our customers with high levels of comfort, efficiency, ecology and safety.

Efficiency

Comfort



Ecology

Safety

Our elevators, escalators and building management systems are always evolving, helping achieve our goal of being the No.1 brand in quality.

In order to satisfy customers in all aspects of comfort, efficiency and safety while realizing a sustainable society, quality must be of the highest level in all products and business activities, while priority is place on consideration for the environment. As the times change, we promise to utilize the collective strengths of its advanced and environmental technologies to offer its customers safe and reliable products while contributing to society.

We strive to be green in all of our business activities.

We take every action to reduce environmental burden during each process of our elevators' and escalators' lifecycle.

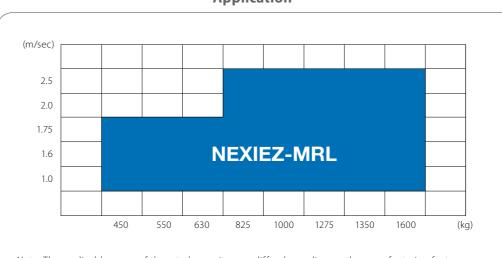


^{*} Quality in Motion is a trademark of Mitsubishi Electric Corporation.

Contents

| Introduction | 5-6 |
|--|-------|
| Ecology | 7-8 |
| Efficiency | 9-11 |
| Space-saving | 12 |
| Safety | 13-14 |
| Standard Design | 15 |
| Features | 16-18 |
| Basic Specifications | 19-21 |
| Important Information on Elevator Planning | 22 |

Application



Note: The applicable range of the rated capacity may differ depending on the manufacturing factory, please consult our local agents for details.

Welcome to a New Era in Vertical Transportation Introducing the NEXIEZ...

... technologically advanced elevators that consume less power,

have minimal impact on the global environment and harmoniously serve people and buildings with smooth, seamless operation. The refined design produces a high-quality atmosphere that reassures passengers of the superior safety and comfort synonymous with our products. Regardless of the use or purpose, the NEXIEZ is a best match solution for virtually any elevator installation.



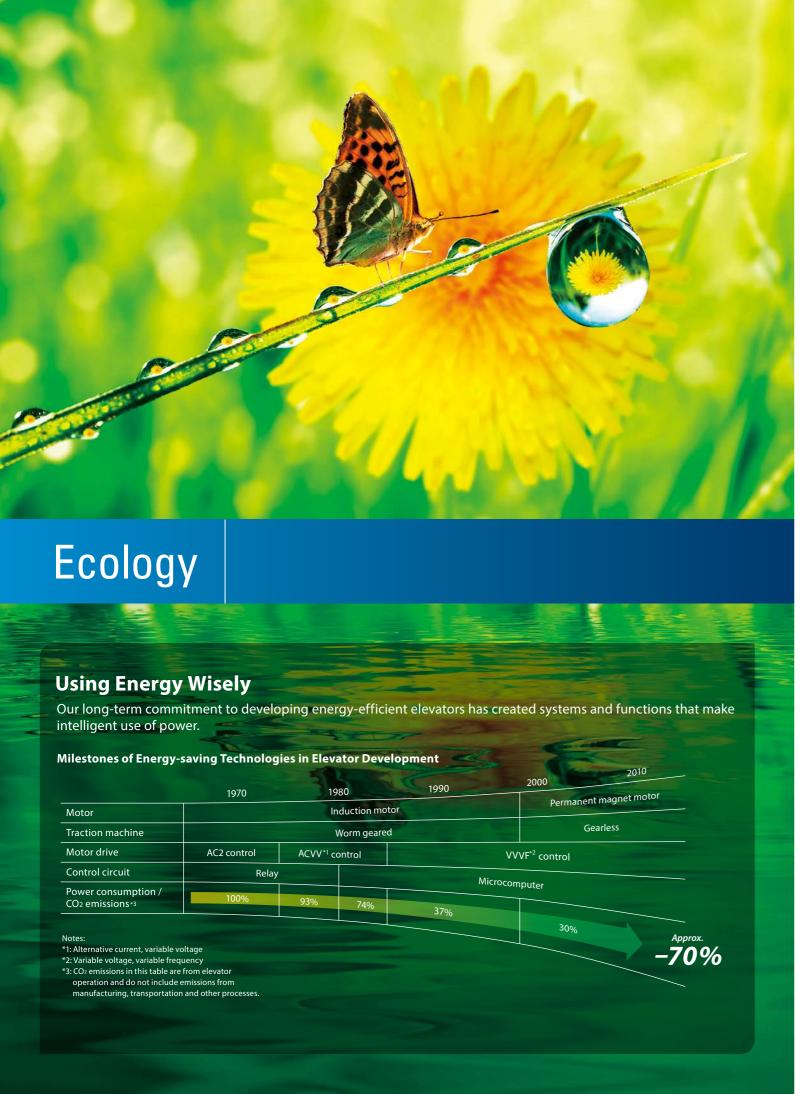












Reusing Energy

Regenerative Converter: PCNV (Optional)

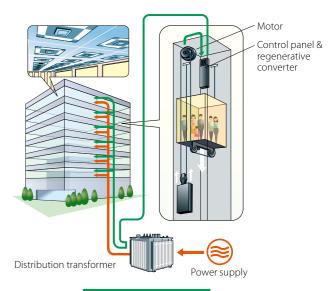
Elevators usually travel using power from a power supply (powered operation); however, when they travel down with a heavy car load or up with a light car load (regenerative operation), the traction machine functions as a power generator.

Although the power generated during traction machine operation is usually dissipated as heat, the regenerative converter transmits the power back to the distribution transformer and feeds it into the electrical network in the building along with electricity from the power supply. Compared to the same type of elevator without a regenerative converter, this system provides an energy-saving effect of approximately 35%.*

In addition, the regenerative converter has the effect of decreasing harmonic currents.

*The value is a reference datum and may increase or decrease in accordance with actual conditions of use and elevator specifications.

Energy-saving effects: Approximately 35%.*



Regenerative operation

Devices that Use Less Energy

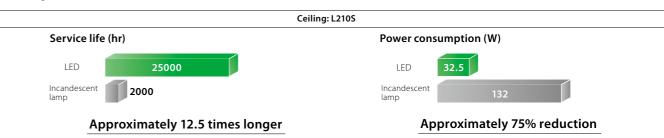
LED Lighting (Optional)

Used for ceiling lights and hall lanterns, LEDs boost the overall energy performance of the building. Furthermore, a long service life eliminates the need for frequent lamp replacement.



Ceiling: L210S LED downlights (yellow-orange)

Advantages of LEDs



Maximizing Operational Efficiency and Minimizing Energy Consumption

Energy-saving Operation – Allocation Control: ESO-W (ΣΑΙ-2200C only)

This system selects the elevator in a group that best balances operational efficiency and energy consumption. Priority is given to operational efficiency during peak hours and energy efficiency during non-peak hours.

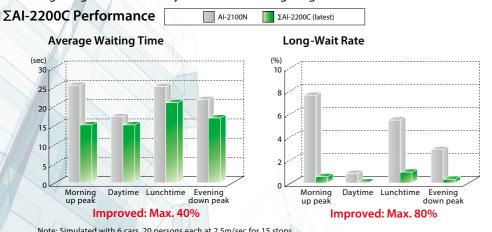
Through a maximum 10% reduction in energy consumption compared to our conventional system, this system allows building owners to cut energy costs without sacrificing passenger convenience.

Efficiency



Group Control Systems: ΣAI-22 and ΣAI-2200C

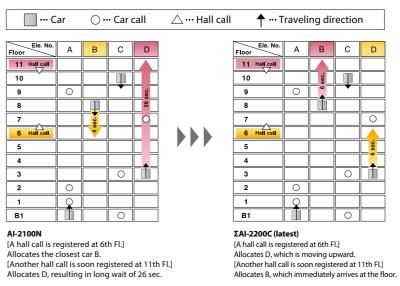
When a building is expected to have heavy traffic, optimum car allocation suited for every condition makes a big difference in preventing congestion at a lobby floor and reducing long waits.



Forecasting a Near-future Hall Call to Reduce Long Waits

Cooperative Optimization Assignment (ΣAI-2200C)

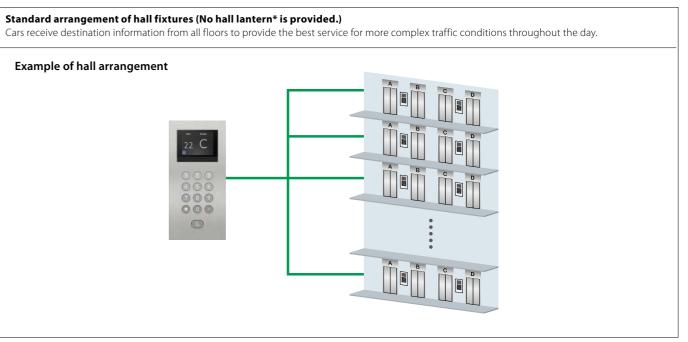
When a hall call is registered, the algorithm assumes a near-future calls that could require long waits. Through evaluation of the registered hall call and the forecasted call, the best car is assigned. All cars work cooperatively for optimum operation.



Allocating Passengers to Cars Depending on Destination Floors

Destination Oriented Allocation System: DOAS (Optional for ΣΑΙ-2200C)

When a passenger enters a destination floor at a hall, the hall operating panel immediately indicates which car will serve the floor. Because the destination floor is already registered, the passenger does not need to press a button in the car. Furthermore, dispersing passengers by destination prevents congestion in cars and minimizes their waiting and traveling time.



Note:

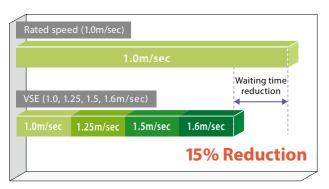
^{*} Hall lanterns are available as optional.

Space-saving

Variable Traveling Speed Elevator System: VSE (Optional)

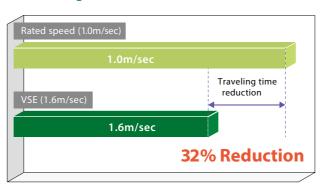
With our industry-first variable traveling speed elevator system, an elevator can travel faster than its rated speed according to the number of passengers, ultimately reducing waiting and traveling time.

Waiting Time Reduction



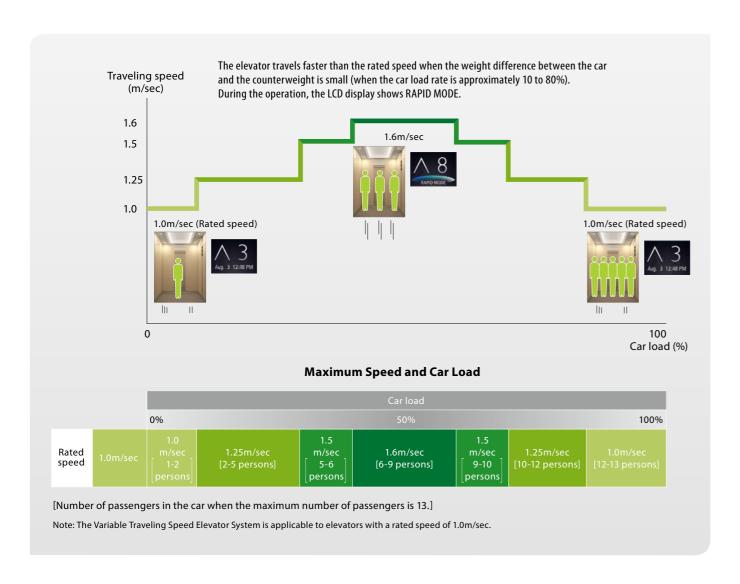
According to our simulation, waiting time can be reduced up to approximately 15% when VSE is applied.

Traveling Time Reduction



Traveling time can be reduced by approximately 32% when the elevator travels from the bottom to the top floor directly under rapid mode in VSE.

(Conditions)
Travel: 36m, Floor height: 4.0m, 10 floors, Car load: 50%



Machine-room-less Elevators

there are fewer restrictions on building design





Safety

For Safe Boarding

Door Safety Devices

Our reliable safety devices ensure that the doors are clear to open and close. Depending on the type of sensor, the detection area differs. Please refer to page 16 for details.

Multi-beam Door Sensor



Hall Motion Sensor: HMS (Optional for CO doors only)





Emergency Situations

Emergency Operations

To ensure passenger safety, our elevators are equipped with functions for emergencies like a power failure, fire or earthquake.

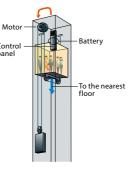
Power failure

Mitsubishi Emergency Landing Device: MELD (Optional)

Upon power failure, a car automatically moves to the nearest floor using a rechargeable battery to facilitate the safe evacuation of passengers.

Operation by Emergency Power Source– Automatic: OEPS (Optional)

Upon power failure, predetermined car(s) use a building's emergency power supply to move to a specified floor and open the doors for passengers to evacuate. After all cars have arrived, predetermined car(s) resume normal operation.

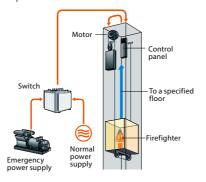


Motor Control panel To a s floor

Fire

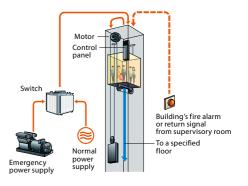
Firefighters' Emergency Operation: FE (Optional)

When the fire operation switch is activated, the car immediately returns to a predetermined floor. The car then responds only to car calls which facilitate firefighting and rescue operations.



Fire Emergency Return: FER (Optional)

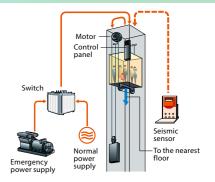
When a key switch or a building's fire alarm is activated, all cars immediately return to a specified floor and open the doors to facilitate the safe evacuation of passengers.



Earthquake

Earthquake Emergency Return: EER-P/EER-S (Optional)

When a primary and/or secondary wave seismic sensor is activated, all cars stop at the nearest floor and park there with the doors open to facilitate the safe evacuation of passengers.



Standard Design

Ceiling: S00





with a milky white resin lighting cover Lighting: Central lighting

Car Design Example

Walls Stainless-steel, hairline-finish Stainless-steel, hairline-finish Doors Stainless-steel, hairline-finish Front return panels — Stainless-steel, hairline-finish

Kickplate Aluminum PR803: Gray Flooring Car operating panel — CBV1-N712



Car operating panel

For side wall

CBV1-N712*1

Segment LED indicators *2 Tactile button with yellow-orange lighting

Hall

Narrow Jamb: E-102



Hall Design Example

| Jamb —— | Stainless-steel, |
|---------------|--------------------------------------|
| | hairline-finish |
| Doors — | Stainless-steel, |
| | hairline-finish |
| Hall position | indicator |
| and button – | PIV1-A1010N*3 Boxless |

- *1: Maximum number of floors: 30 floors
- *2: Some letters of the alphabets are not available. Please consult our local agents for details.

*3: These types are not applicable to elevators complying with EN81-70.

Hall position indicators and buttons

With plastic case*3





PIV1-A1010N Boxless PIV1-A1020N Boxless Segment LED indicators*2

Tactile button with yellow-orange lighting

Actual colors may differ slightly from those shown.

Features (1/2)

| Feature | Abbreviation | Description | 1C to 2C 2BC | 3C to 4C ΣAI-22 | 3C to 8C ΣΑΙ-22000 |
|---|----------------|---|-----------------|--------------------|-----------------------|
| ■ EMERGENCY OPERATI | ONS AND FEA | TURES | | | |
| Building Management System — GateWay | BMS-GW | Each elevator's status and operation can be monitored and controlled using a building management system which manages various facilities in the building via the interface for the elevator system. | 0 | 0 | 0 |
| Earthquake Emergency Return | EER-P EER-S | Upon activation of primary and/or secondary wave seismic sensors, all cars stop at the nearest floor, and park there with the doors open to facilitate the safe evacuation of passengers. | 0 | 0 | 0 |
| Emergency Car Lighting | ECL | Car lighting which turns on immediately when power fails, providing a minimum level of lighting within the car. (Choice of dry-cell battery or trickle-charge battery.) | S | S | S |
| Fire Emergency Return | FER | Upon activation of a key switch or a building's fire alarm, all calls are canceled, all cars immediately return to a specified evacuation floor and the doors open to facilitate the safe evacuation of passengers. | 0 | 0 | 0 |
| Firefighters' Emergency Operation | FE | During a fire, when the fire operation switch is activated, the car calls of a specified car and all hall calls are canceled and the car immediately returns to a predetermined floor. The car then responds only to car calls which facilitate fire-fighting and rescue operation. | 0 | 0 | 0 |
| MelEye Mitsubishi Elevators & Escalators Monitoring and Control System | | Each elevator's status and operation can be monitored and controlled using an advanced Webbased technology which provides an interface through personal computers. Special optional features such as preparation of traffic statistics and analysis are also available. | 0 | 0 | 0 |
| Mitsubishi Emergency Landing Device | MELD | Upon power failure, a car equipped with this function automatically moves and stops at the nearest floor using a rechargeable battery, and the doors open to facilitate the safe evacuation of passengers. (Maximum allowable floor-to-floor distance is 11 meters.) | 0 | 0 | 0 |
| Operation by Emergency Power Source — Automatic | OEPS | Upon power failure, predetermined car(s) uses the building's emergency power supply to move to a specified floor, where the doors then open to facilitate the safe evacuation of passengers. After all cars have arrived, the predetermined car(s) resume normal operation. | 0 | 0 | 0 |
| DOOR OPERATION FEA | ATURES | | | • | |
| Automatic Door-open Time Adjustment | DOT | The time doors are open will automatically be adjusted depending on whether the stop was called from the hall or the car, to allow smooth boarding of passengers or loading of baggage. | _ | _ | S |
| Automatic Door Speed Control | DSAC | Door load on each floor, which can depend on the type of hall doors, is monitored to adjust the door speed, thereby making the door speed consistent throughout all floors. | S | S | S |
| Door Load Detector | DLD | When excessive door load has been detected while opening or closing, the doors immediately reverse. | S | S | S |
| Door Nudging Feature — With Buzzer | NDG | A buzzer sounds and the doors slowly close when they have remained open for longer than the preset period. With the AAN-B or AAN-G feature, a beep and voice guidance sound instead of the buzzer. | S | S | S |
| | | Failure of non-contact door sensors is checked automatically, and if a problem is diagnosed, | | | |

the door-close timing is delayed and the closing speed is reduced to maintain elevator

Door open time is minimized using the Multi-beam Door Sensor feature that detects

When the button inside a car is pressed, the doors will remain open longer to allow loading and unloading of baggage, a stretcher, etc.

nfrared-light is used to scan a 3D area near the open doors to detect passengers or objects.

(HMS is not applicable to elevators complying with EN81-20/50 when the door type is 2S.)

Closing doors can be reopened by pressing the hall button corresponding to the traveling direction of the car.

Should an obstacle prevent the doors from closing, the doors will repeatedly open and

The sensitive door edge detects passengers or objects during door closing.

Notes: 1C-2BC (1-car selective collective) - Standard, 2C-2BC (2-car group control system) - Optional

ΣΑΙ-22 (3- to 4-car group control system) - Optional, ΣΑΙ-2200C (3- to 8-car group control system) - Optional

ervice and ensure passenger safety.

close until the obstacle is cleared from the doorway.

passengers boarding or exiting.

 \bigcirc = Standard \bigcirc = Optional \uparrow = Not applicable to 1C-2BC — = Not applicable

DKO-TB

S

S

 \odot

 \odot

S

0

0

S

 \odot

 \odot

Features (2/2)

| Feature | Abbreviation | Description | 1C to 2C 2BC | 3C to 4C ΣΑΙ-22 | 3C to 8C ΣΑΙ-22000 |
|--|-----------------|--|--------------------------|--------------------|-----------------------|
| OPERATIONAL AND SE | RVICE FEATU | RES | | | |
| Attendant Service | AS | Exclusive operation where an elevator can be operated using the buttons and switches located in the car operating panel, allowing smooth boarding of passengers or loading of baggage. | 0 | 0 | 0 |
| Automatic Bypass | ABP | A fully-loaded car bypasses hall calls in order to maintain maximum operational efficiency. | S #1 | S | S |
| Automatic Hall Call Registration | FSAT | If one car cannot carry all waiting passengers because it is full, another car will automatically be assigned for the remaining passengers. | S | S | S |
| Backup Operation for Group Control Microprocesso | gCBK | An operation by car controllers which automatically maintains elevator operation in the event that a microprocessor or transmission line in the group controller has failed. | ® [†] | (S) | S |
| Car Call Canceling | ССС | When a car has responded to the final car call in one direction, the system regards remaining calls in the other direction as mistakes and clears them from the memory. | S | S | S |
| Car Fan Shut Off — Automatic | CFO-A | If there are no calls for a specified period, the car ventilation fan will automatically turn off to conserve energy. | S | S | S |
| Car Light Shut Off — Automatic | CLO-A | If there are no calls for a specified period, the car lighting will automatically turn off to conserve energy. | S | (S) | S |
| Continuity of Service | cos | A car which is experiencing trouble is automatically withdrawn from group control operation to maintain overall group performance. | ® [†] | (S) | S |
| Elevator and Security System Interface | EL-SCA EL-SC | Personal authentication by building's security devices can trigger predetermined elevator operation such as permission of access to private floors, automatic registration of a hall call and a destination floor, and priority service. | 0 | 0 | 0 |
| False Call Canceling — Automatic | FCC-A | If the number of registered car calls does not correspond to the car load, all calls are canceled to avoid unnecessary stops. | 0 | 0 | S |
| False Call Canceling — Car Button Type | FCC-P | If a wrong car button is pressed, it can be canceled by quickly pressing the same button again twice. | 0 | 0 | 0 |
| Independent Service | IND | Exclusive operation where a car is withdrawn from group control operation for independent use, such as maintenance or repair, and responds only to car calls. | S | S | S |
| Next Landing | NXL | If the elevator doors do not open fully at a destination floor, the doors close, and the car automatically moves to the next or nearest floor where the doors open. | S | S | S |
| Non-service to Specific Floors — Car Button Type | NS-CB | To enhance security, service to specific floors can be disabled using the car operating panel. This function is automatically deactivated during emergency operation. | 0 | 0 | 0 |
| Non-service to Specific Floors — Switch/Timer Type | NS NS-T | To enhance security, service to specific floors can be disabled using a manual or timer switch. This function is automatically deactivated during emergency operation. | © #2 | 0 | 0 |
| Non-service Temporary Release for Car Call— Card Reader Type | NSCR-C | To enhance security, car calls for desired floors can be registered only by placing a card over a card reader. This function is automatically deactivated during emergency operation. | 0 | 0 | 0 |
| Out-of-service by Hall Key Switch | HOS HOS-T | For maintenance or energy-saving measures, a car can be taken out of service temporarily with a key switch (with or without a timer) mounted in a specified hall. | 0 | 0 | 0 |
| Out-of-service-remote | RCS | With a key switch on the MelEye, etc., a car can be called to a specified floor after responding to all car calls, and then automatically be taken out of service. | 0 | 0 | 0 |
| Overload Holding Stop | OLH | A buzzer sounds to alert the passengers that the car is overloaded. The doors remain open and the car will not leave that floor until enough passengers exit the car. | S | (S) | S |
| Regenerative Converter | PCNV | For energy conservation, power regenerated by a traction machine can be used by other electrical systems in the building. | 0 | 0 | 0 |
| Return Operation | RET | Using a key switch, a car can be withdrawn from group control operation and called to a specified floor. The car will park on that floor with the doors open, and not accept any calls until independent operations begin. | 0 | 0 | 0 |
| Safe Landing | SFL | If a car has stopped between floors due to some equipment malfunction, the controller checks the cause, and if it is considered safe to move the car, the car will move to the nearest floor at a low speed and the doors will open. | S | S | S |
| Secret Call Service | SCS-B | To enhance security, car calls for desired floors can be registered only by entering secret codes using the car buttons on the car operating panel. This function is automatically deactivated during emergency operation. | 0 | 0 | 0 |
| Variable Traveling Speed Elevator System | VSE | According to the number of passengers in the car, the car travels faster than the rated speed. | 0 | 0 | 0 |
| GROUP CONTROL FEAT | TURES | | | | |
| Bank-separation Operation | BSO | Hall buttons and the cars called by each button can be divided into several groups for independent group control operation to serve special needs or different floors. | ⊚ ^{†,#2} | 0 | 0 |
| Closest-car Priority Service | CNPS | A function to give priority allocation to the car closest to the floor where a hall call button has been pressed, or to reverse the closing doors of the car closest to the pressed hall call button on that floor. (Cannot be combined with hall position indicators.) | _ | © #2 | 0 |
| Congested-floor Service | CFS | The timing of car allocation and the number of cars to be allocated to floors where meeting rooms or ballrooms exist and the traffic intensifies for short periods of time are controlled according to the detected traffic density data for those floors. | _ | 0 | 0 |
| Destination Oriented Allocation System | DOAS | When a passenger enters a destination floor at a hall, the hall operating panel indicates which car will serve the floor. The passenger does not need to press a button in the car. Dispersing passengers by destination prevents congestion in the cars and minimizes waiting and traveling time. | _ | _ | © #3 |

| Feature | Abbreviation | Description | 1C to 2C 2BC | 3C to 4C ΣAI-22 | 3C to 8C ΣΑΙ-22000 |
|---|--------------|--|--------------------------|------------------------|-----------------------|
| Down Peak Service | DPS | Controls the number of cars to be allocated and the timing of car allocation in order to meet increased demands for downward travel during office leaving time, hotel check-out time, etc. to minimize passenger waiting time. | _ | 0 | 0 |
| Elevator Call System with Smartphone | ELCS-SP | Users can call an elevator remotely by accessing a dedicated website with a smartphone. By eliminating the need to touch a call button in the elevator lobby or car, the system provides increased convenience and comfort to users. | © ^{#2} | © ^{#2} | © #2 |
| Energy-saving Operation — Number of Cars | ESO-N | To save energy, the number of service cars is automatically reduced to some extent, but not so much that it adversely affects passenger waiting time. | - | 0 | S |
| Forced Floor Stop | FFS | All cars in a bank automatically make a stop at a predetermined floor on every trip without being called. | 0 | 0 | 0 |
| ight-load Car Priority Service | UCPS | When traffic is light, empty or lightly-loaded cars are given higher priority to respond to hall calls in order to minimize passenger travel time. (Cannot be combined with hall position indicators.) | _ | © #2 | 0 |
| unchtime Service | LTS | During the first half of lunchtime, calls for a restaurant floor are served with higher priority, and during the latter half, the number of cars allocated to the restaurant floor, the allocation timing for each car and the door opening and closing timing are all controlled based on predicted data. | _ | 0 | 0 |
| Main Floor Changeover Operation | TFS | This feature is effective for buildings with two main (lobby) floors. The floor designated as the "main floor" in a group control operation can be changed as necessary using a manual switch. | 0 | 0 | 0 |
| Main Floor Parking | MFP | An available car always parks on the main (lobby) floor with the doors open. | 0 | 0 | 0 |
| special Car Priority Service | SCPS | Special cars, such as observation elevators and elevators with basement service, are given higher priority to respond to hall calls. (Cannot be combined with hall position indicators.) | _ | © #2 | 0 |
| Special Floor Priority Service | SFPS | Special floors, such as floors with VIP rooms or executive rooms, are given higher priority for car allocation when a call is made on those floors. (Cannot be combined with hall position indicators.) | _ | © #2 | 0 |
| Jp Peak Service | UPS | Controls the number of cars to be allocated to the lobby floor, as well as the car allocation timing, in order to meet increased demands for upward travel from the lobby floor during office starting time, hotel check-in time, etc., and minimize passenger waiting time. | | 0 | 0 |
| /IP Operation | VIP-S | A specified car is withdrawn from group control operation for VIP service operation. When activated, the car responds only to existing car calls, moves to a specified floor and parks there with the doors open. The car then responds only to car calls. | ⊚ ^{†,#2} | 0 | 0 |
| SIGNAL AND DISPLAY I | FEATURES | | | | |
| Auxiliary Car Operating Panel | ACS | An additional car control panel which can be installed for large-capacity elevators, heavy-traffic elevators, etc. | 0 | 0 | 0 |
| Basic Announcement | AAN-B | A synthetic voice (and/or buzzer) alerts passengers inside a car that elevator operation has been temporarily interrupted by overloading or a similar cause. (Available in limited languages.) | 0 | 0 | S |
| Car Arrival Chime | AECC (car) | Electronic chimes sound to indicate that a car will soon arrive. (The chimes are mounted | 0 | 0 | _ |
| | AECH (hall) | either on the top and bottom of the car, or in each hall.) | 0 | 0 | S |
| Car Information Display | CID | This 10.4- or 15-inch LCD for car front return panels shows the date and time, car position, travel direction and elevator status messages. * Please consult our local agents if you would like to display a video or a slideshow of still images on the screen. | 0 | 0 | 0 |
| Car LCD Position Indicator | CID-S | This 5.7-inch LCD for car operating panels shows the date and time, car position, travel direction and elevator status messages. | 0 | 0 | 0 |
| Flashing Hall Lantern | FHL | A hall lantern, which corresponds to a car's service direction, flashes to indicate that the car will soon arrive. | 0 | 0 | S |
| | | | | | |

This 10.4- or 15-inch LCD for elevator halls shows the date and time, car position, travel

* Please consult our local agents if you would like to display a video or a slideshow of still

This 5.7-inch LCD for elevator halls shows the date and time, car position, travel direction and

When a passenger has registered a hall call, the best car to respond to that call is immediately selected, the corresponding hall lantern lights up and a chime sounds once to

A system which allows communication between passengers inside a car and the building

A click-type car button which emits electronic beep sounds when pressed to indicate that

Information on elevator service such as the current floor or service direction is given to the passengers inside a car.

When a hall is crowded to the extent that one car cannot accommodate all waiting passengers, the hall lantern of the next car to serve the hall will light up.

Notes: 1C-2BC (1-car selective collective) - Standard, 2C-2BC (2-car group control system) - Optional

 Δ Al-22 (3- to 4-car group control system) - Optional, Δ Al-2200C (3- to 8-car group control system) - Optional

the call has been registered.

direction and elevator status messages.

images on the screen.

indicate which doors will open.

⑤ = Standard ⑥ = Optional † = Not applicable to 1C-2BC — = Not applicable

#1: Optional when the operation system is 1C-2BC.

Sonic Car Button — Click Type

#2: Please consult our local agents for the production terms, etc.

#3: • When the DOAS is applied, AECC is **⑤**. •The DOAS cannot be combined with some features. Please refer to the Σ Al-2200C brochure for those features.

personnel.

0

0

S

S

0

0

0

S

S

S

Basic Specifications

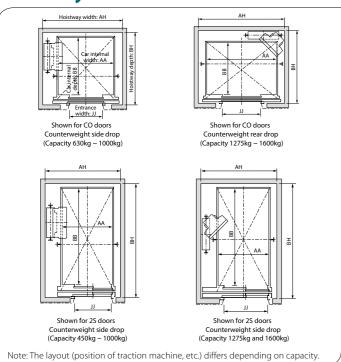
Horizontal Dimensions <1-Door 1-Gate>

| Code | | | Rated capacity | Door | Entrance width (mm) | Counter- weight | Car internal dimensions | Minimum hoistway dimensions (mm) AHxBH/car | | | | | | | | | | | | | |
|--------|---------|-------------|-------------------|------|---------------------|--------------------|-------------------------|---|---------------|---------------|-----------|-----------|-----------|---------------|--|----|----------------|-----------|-----------|-----------|-----------|
| number | persons | (m/sec) | (kg) | type | JJ | position | (mm) | Rated speed (m/sec) | | | | | | | | | | | | | |
| | | , í | , 3, | | | | AAx BB | 1.0 , 1.6 , 1.75 | 2.0, 2.5 | | | | | | | | | | | | |
| P6 | 6 | | 450 | | 800 | | 950x1300 | 1500x1740 | | | | | | | | | | | | | |
| FO | 0 | | 430 | 2S | 800 | | 1000x1200 | 1550x1740 | | | | | | | | | | | | | |
| P7 | 7 | | 550 | 23 | 800: Standard | | 1100x1300 | 1650x1740 | | | | | | | | | | | | | |
| | , | 1.0 | 330 | | 900:Optional | | 1100x1300 | | | | | | | | | | | | | | |
| | | 1.6 | | CO | 900 : Standard | | | 2000x1735 | | | | | | | | | | | | | |
| P8 | 8 | 1.75 | 630 | CO | 800:Optional | | 1100×1400 | 1820x1735 | | | | | | | | | | | | | |
| 10 | | | 050 | 25 | 900:Standard | | 1100011400 | 1650x1800 | | | | | | | | | | | | | |
| | | | | 23 | 800:Optional | | | | | | | | | | | | | | | | |
| | | | | CO | 900 : Standard | | | 2050x1735 | 2065x1735 | | | | | | | | | | | | |
| P11 | P11 11 | | 825 - | CO | 800:Optional | Side | 1350x1400 | 1945x1735 | 2010x1735 | | | | | | | | | | | | |
| 1 11 | '' | | | 023 | 023 | 25 | 900 : Standard | | 133021400 | 1900x1800 | 2010x1800 | | | | | | | | | | |
| | | | | | | | | | 23 | 1100:Optional | | | 1950x1800 | 2060x1800 | | | | | | | |
| | | | | CO | 1100:Standard | | | 2400x1735 | 2430x1735 | | | | | | | | | | | | |
| | | | | | | | | | CO | 900:Optional | | 1600x1400 | 2175x1735 | 2260x1735 | | | | | | | |
| | | 1.0 1.6 | | | | | | 25 | 1100 | | | 2150x1800 | 2260x1800 | | | | | | | | |
| P13 | 13 | | | | | | 1.0 | | | | | 1000 | СО | 900: Standard | | | 2000x2435 | 2030x2435 | | | |
| | | | | | | CO | 800:Optional | | 1100x2100 | 1820x2435 | 1840x2435 | | | | | | | | | | |
| | | 1.75 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.75 | 1.75 | 1.75 | 1.75 | | | | | | 2S | 900 : Standard | | 1100X2100 | 1650x2500 | 1760x2500 |
| | | | | | | | | 23 | 800:Optional | | | 1030X2300 | 1700X2300 | | | | | | | | |
| | | 2.5 | | CO | 1100 | Rear | 2000x1400 | 2490x1975 | 2490x2045 | | | | | | | | | | | | |
| P17 | 17 | | 1275 | | 1000 | Side | 1200x2300 | 2250x2625 | 2250x2625 | | | | | | | | | | | | |
| | | | | 2S | | Side | 1200x2300 | 2065x2670 | 2195x2670 | | | | | | | | | | | | |
| P18 | 18 | | 1350 | | 350 | | 1100 | Rear | 2000x1500 | 2490x2075 | 2490x2145 | | | | | | | | | | |
| | | | | CO | 1100 | ricai | 2100x1600 | 2590x2175 | 2590x2245 | | | | | | | | | | | | |
| P21 | 21 | | 1600 | | | | | 2450x2725 | 2450x2725 | | | | | | | | | | | | |
| ۲ZI | 21 | 21 | 1600 | 25 | 1200 : Standard | Side | 1400x2400 | 2215x2770 | 2345x2770 | | | | | | | | | | | | |
| | | | | | | | | 23 | 1300:Optional | | | 2405x2770 | 2535x2770 | | | | | | | | |

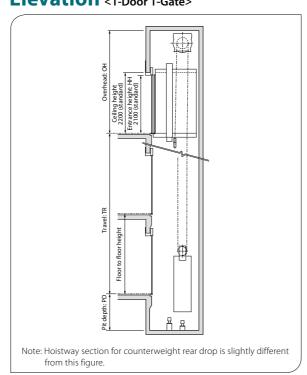
[Terms of the table

- This table shows standard specifications with the fireproof landing door and without counterweight safety. Please consult our local agents for other specifications.
- CO: 2-panel center opening doors, 2S: 2-panel side sliding doors.
- Minimum hoistway dimensions (AH and BH) shown in the table are after waterproofing of the pit and do not include plumb tolerance.
- The applicable range of the rated capacity may differ depending on the manufacturing factory. Please consult our local agents for details.

Hoistway Plan <1-Door 1-Gate>



Elevation <1-Door 1-Gate>



Vertical Dimensions <1-Door 1-Gate & 1-Door 2-Gate>

| Rated speed (m/sec) | Rated capacity (kg) Q | Travel (m) TR | Maximum number of floors | Minimum overhead (mm) OH* ¹ | Minimum pit depth (mm) PD* ² | Minimum floor to floor height (mm) |
|---------------------|-----------------------------|--|--------------------------------|--|---|--|
| | 450≦Q≦550 | TR≦30 | | 4050 | 1300 | |
| | 430 <u>=</u> Q=330 | 30 <tr≦60< td=""><td></td><td>4050</td><td>1400</td><td></td></tr≦60<> | | 4050 | 1400 | |
| 1.0 | 630≦Q≦1000 | TR≦30 | 22 | 3750 | 1300 | |
| 1.0 | 030=Q=1000 | 30 <tr≦60< td=""><td>22</td><td>3750</td><td>1400</td><td></td></tr≦60<> | 22 | 3750 | 1400 | |
| | 1275≦Q≦1600 | TR≦30 | | 4500 | 1550 | |
| | 1275 = Q = 1000 | 30 <tr≦60< td=""><td></td><td>4600</td><td>1650</td><td></td></tr≦60<> | | 4600 | 1650 | |
| | | TR≦30 | | 4150 | 1550 | |
| | 450≦Q≦550 | 30 <tr≦60< td=""><td></td><td>4200</td><td>1650</td><td></td></tr≦60<> | | 4200 | 1650 | |
| | | 60 <tr≦80< td=""><td>30</td><td>4250</td><td>1700</td><td></td></tr≦80<> | 30 | 4250 | 1700 | |
| | | TR≦30 |] | 3850 | 1550 | |
| 1.6 | 630≦Q≦1000 | 30 <tr≦60< td=""><td></td><td>3900</td><td>1650</td><td></td></tr≦60<> | | 3900 | 1650 | |
| | | 60 <tr≦80< td=""><td></td><td>3950</td><td>1700</td><td></td></tr≦80<> | | 3950 | 1700 | |
| | 1275≦Q≦1600 | TR≦30 | 26 | 4650 | 1800 | |
| | | 30 <tr≦60< td=""><td>4750</td><td>1900</td><td></td></tr≦60<> | | 4750 | 1900 | |
| | | 60 <tr≦80< td=""><td></td><td>4800</td><td>1950</td><td></td></tr≦80<> | | 4800 | 1950 | |
| | 450≦Q≦550 | TR≦30 | 30 | 4250 | 1600 | |
| | | 30 <tr≦60< td=""><td>4300</td><td>1700</td><td></td></tr≦60<> | | 4300 | 1700 | |
| | | 60 <tr≦80< td=""><td>4350</td><td>1750</td><td>2600</td></tr≦80<> | | 4350 | 1750 | 2600 |
| | 630≦Q≦1000 | TR≦30 | | 3950 | 1600 | 2000 |
| 1.75 | | 30 <tr≦60< td=""><td>4000</td><td>1700</td><td></td></tr≦60<> | | 4000 | 1700 | |
| | | 60 <tr≦80< td=""><td></td><td>4050</td><td>1750</td><td></td></tr≦80<> | | 4050 | 1750 | |
| | 1275≦Q≦1600 | TR≦30 | 26 | 4750 | 1850 | |
| | | 30 <tr≦60< td=""><td>4850</td><td>1950</td><td></td></tr≦60<> | | 4850 | 1950 | |
| | | 60 <tr≦80< td=""><td></td><td>4900</td><td>2000</td><td></td></tr≦80<> | | 4900 | 2000 | |
| | | TR≦30 | | 4300 | 1700 | |
| | 825≦Q≦1000 | 30 <tr≦60< td=""><td></td><td>4350</td><td>1800</td><td></td></tr≦60<> | | 4350 | 1800 | |
| 2.0 | | 60 <tr≦80< td=""><td></td><td>4400</td><td>1850</td><td></td></tr≦80<> | | 4400 | 1850 | |
| 2.0 | | TR≦30 | | 4850 | 1850 | |
| | 1275≦Q≦1600 | 30 <tr≦60< td=""><td></td><td>4900</td><td>1950</td><td></td></tr≦60<> | | 4900 | 1950 | |
| | | 60 <tr≦80< td=""><td>]</td><td>4950</td><td>2000</td><td></td></tr≦80<> |] | 4950 | 2000 | |
| | | TR≦30 | 30 | 4550 | 2050 | |
| 0.5 | 825≦Q≦1000 | 30 <tr≦60< td=""><td></td><td>4600</td><td>2150</td><td></td></tr≦60<> | | 4600 | 2150 | |
| | | 60 <tr≦80< td=""><td></td><td>4650</td><td>2200</td><td></td></tr≦80<> | | 4650 | 2200 | |
| 2.5 | | TR≦30 | | 5050 | 2200 | |
| | 1275≦Q≦1600 | 30 <tr≦60< td=""><td></td><td>5100</td><td>2300</td><td>1</td></tr≦60<> | | 5100 | 2300 | 1 |
| | | 60 <tr≦80< td=""><td></td><td>5150</td><td>2350</td><td></td></tr≦80<> | | 5150 | 2350 | |

[Terms of the table]

- This table shows standard specifications without counterweight safety. Please consult our local agents for other specifications.
- Some specifications require more than 2600mm as a minimum floor height. Please consult our local agents if the floor height is less than entrance height HH + 700mm, and the elevator is 1-Door 2-Gate.

Notes:

- *1: The dimension can be shortened in some cases. Please consult our local agents for details.
- *2: A shallower pit depth may be available, depending on the conditions. Please consult our local agents for details.

Specifications for Variable Traveling Speed Elevator System (Optional) <1-Door 1-Gate & 1-Door 2-Gate>

(1-Door 1-Gate & 1-Door 2-Gate>

| Rated speed (m/sec) | Speeds (m/sec) | Rated capacity (kg) Q | Travel (m) TR | Minimum overhead (mm) OH*1 | Minimum pit depth (mm) PD*² |
|------------------------|-------------------|---|--|----------------------------------|-----------------------------------|
| | 1.0/1.25/1.5/1.6 | 450≤Q≤550 | TR≦30 | 4150 | 1550 |
| | | 4302Q2330 | 30 <tr≦60< td=""><td>4200</td><td>1650</td></tr≦60<> | 4200 | 1650 |
| 1.0 | | 630 < 0 < 1000 | TR≦30 | 3850 | 1550 |
| 1.0 | | 630 <q≦1000< td=""><td>30<tr≦60< td=""><td>3900</td><td>1650</td></tr≦60<></td></q≦1000<> | 30 <tr≦60< td=""><td>3900</td><td>1650</td></tr≦60<> | 3900 | 1650 |
| | | 1275 <q≤1600< td=""><td>TR≦30</td><td>4650</td><td>1800</td></q≤1600<> | TR≦30 | 4650 | 1800 |
| | | 12/3 <q\\ 1000<="" td=""><td>30<tr≦60< td=""><td>4750</td><td>1900</td></tr≦60<></td></q\\> | 30 <tr≦60< td=""><td>4750</td><td>1900</td></tr≦60<> | 4750 | 1900 |

[Terms of the table]

- This table shows standard specifications without counterweight safety. Please consult our local agents for other specifications.
- The Variable Traveling Speed Elevator System (VSE) is applicable for elevators with a rated speed of 1.0m/sec.
- Except minimum overhead and pit depth dimensions (OH and PD), specifications shown in tables, "Horizontal Dimensions" and "Vertical Dimensions", on the pages 19 to 21 are applicable to the Variable Traveling Speed Elevator System.

Notes:

- *1: The dimension can be shortened in some cases. Please consult our local agents for details.
- *2: A shallower pit depth may be available, depending on the conditions. Please consult our local agents for details.

Dimensional information shown here conforms to EN81-20/50 2014.

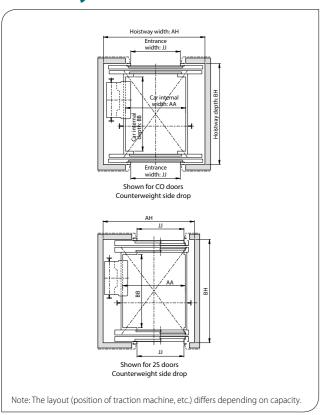
Horizontal Dimensions <1-Door 2-Gate> <Counterweight position: side>

| Code | Number of | | Rated | Door | Entrance width (mm) | Car internal dimensions | Minimum hoistway dimensions (mm) AHxBH/car | | | | | | | |
|--------|--------------|---------------------------|------------------|------|---------------------|-------------------------|---|------------|--|----|---------------|--|-----------|-----------|
| number | persons | speed (m/sec) | capacity (kg) | type | (IIIII) JJ | (mm) | Rated spe | ed (m/sec) | | | | | | |
| | | (, = = =, | | | | AAxBB | 1.0 , 1.6 , 1.75 | 2.0, 2.5 | | | | | | |
| | | 1.0 | | СО | 900: Standard | | 2000x1890 | | | | | | | |
| P8 | 8 | 1.6 | 630 | | 800:Optional | 1100x1400 | 1885x1890 | | | | | | | |
| PO | 0 | 1.75 | 030 | 2S | 900: Standard | 1100x1400 | 1715x1982 | | | | | | | |
| | | 1./3 | | 23 | 800:Optional | | 1650x1982 | | | | | | | |
| | | | | СО | 900: Standard | | 2115x1890 | 2130x1890 | | | | | | |
| D11 | P11 11 | | 825 | | 800:Optional | 1350x1400 | 1945x1890 | 2010x1890 | | | | | | |
| PII | | | | 2S | 900: Standard | 1350X1400 | 1900x1982 | 2010x1982 | | | | | | |
| | | | | | 1100:Optional | | 1965x1982 | 2075x1982 | | | | | | |
| | | 1.0 1.6 1.75 2.0 | | | | | | | | СО | 1100:Standard | | 2440x1890 | 2455x1890 |
| | | | .6 75 | CO | 900:Optional | 1600x1400 | 2175x1890 | 2260x1890 | | | | | | |
| | | | | 25 | 1100 | | 2150x1982 | 2260x1982 | | | | | | |
| P13 | 13 | | | СО | 900: Standard | 1100x2100 | 2000x2590 | 2030x2590 | | | | | | |
| | | | | CO | 800:Optional | | 1820x2590 | 1840x2590 | | | | | | |
| | | 2.5 | | 25 | 900: Standard | 1100X2100 | 1650x2682 | 1760x2682 | | | | | | |
| | | 2.5 | | 23 | 800:Optional | | 1030X2062 | 1700X2062 | | | | | | |
| P17 | 17 | | 1275 | CO | 1000 | 1200,2200 | 2250x2790 | 2250x2790 | | | | | | |
| P17 | 17 | | 1275 | 2S | 1100 | 1200x2300 | 2065x2882 | 2195x2882 | | | | | | |
| | | | | CO | 1100 | | 2450x2890 | 2450x2890 | | | | | | |
| P21 | 21 | | 1600 | 25 | 1200 : Standard | 1400x2400 | 2215x2982 | 2345x2982 | | | | | | |
| | | | | 23 | 1300: Optional | | 2405x2982 | 2535x2982 | | | | | | |

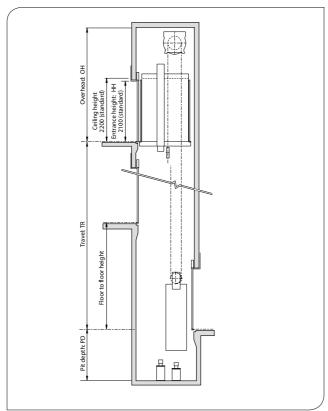
[Terms of the table

- This table shows standard specifications with the fireproof landing door and without counterweight safety. Please consult our local agents for other specifications.
- CO: 2-panel center opening doors, 2S: 2-panel side sliding doors.
- · Minimum hoistway dimensions (AH and BH) shown in the table are after waterproofing of the pit and do not include plumb tolerance.

Hoistway Plan <1-Door 2-Gate>



Elevation <1-Door 2-Gate>



Work Not Included in Elevator Contract

The following items are excluded from our elevator installation work. Their conditions and other details are to be conformed to the statement of EN81-20/50: 2014, local laws or our requirements on the responsibility of the building owner or general contractor.

- Architectural finishing of walls and floors in the vicinity of the entrance hall after installation has been completed.
- Construction of an illuminated, ventilated and waterproofed hoistway.
- The provision of openings and supporting members as required for equipment installation
- The provision of separate beams when the hoistway dimensions markedly exceed the specifications, and intermediate beams and separator partitions when two or more elevators are installed.
- The provision of an emergency exit door, inspection door and pit access door, when required, and access to the doors.
- All other work related to building construction.
- The provision of the main power and power for illumination in the hoistway by laying of the feeder wiring from the electrical switch boxes in electrical room into the hoistway.
- The provision of outlets and laying of the wiring in the hoistway, plus the power from the electrical switch box.
- The laying of conduits and wiring between the elevator pit and the terminating point for the devices installed outside the hoistway, such as the emergency bell, intercom, monitoring and security devices.
- The power consumed in installation work and test operations.
- All the necessary building materials for grouting in of brackets, bolts, etc.
- The test provision and subsequent alteration as required, and eventual removal of the scaffolding as required by the elevator contractor, and any other protection of the work as may be required during the process.
- The provision of a suitable, locked space for the storage of elevator equipment and tools during elevator installation.
- The security system, such as a card reader, connected to our elevator controller, when supplied by the building owner or general contractor.

Note: Work responsibilities in installation and construction shall be determined according to local laws.

Elevator Site Requirements

- The temperature of the elevator hoistway shall be below 40°C.
- The following conditions are required for maintaining elevator performance.
- a. The relative humidity shall be below 90% on a monthly average and below 95% on a daily average.
- b. Prevention against icing and condensation occurring due to a rapid drop in the temperature shall be provided in the elevator hoistway
- c. The elevator hoistway shall be finished with mortar or other materials so as to prevent concrete dust.
- Voltage fluctuation shall be within a range of +5% to -10%.

Ordering Information

Please include the following information when ordering or requesting estimates:

- The desired number of units, speed and loading capacity.
- The number of stops or number of floors to be served.
- The total elevator travel and each floor-to-floor height.
- Operation system.
- Selected design and size of car.
- Entrance design.
- Signal equipment.
- A sketch of the part of the building where the elevators are to be installed.
- The voltage, number of phases, and frequency of the power source for the motor and lighting.

Dimensional information shown here conforms to EN81-20/50 2014.



State-of-the-Art Factories... For the Environment. For Product Quality.

Our elevators and escalators are currently operating in approximately 90 countries around the globe. Built placing priority on safety, our elevators, escalators and building system products are renowned for their excellent efficiency, energy savings and comfort.

The technologies and skills cultivated at the Inazawa Building Systems Works in Japan and 12 global manufacturing factories are utilized in a worldwide network that provides sales, installation and maintenance in support of maintaining and improving product quality.

As a means of contributing to the realization of a sustainable society, we consciously consider the environment in business operations, proactively work to realize a low-carbon, recycling-based society, and promote the preservation of biodiversity.

ISO9001/14001 certification

Mitsubishi Electric Building Solutions Corporation Inazawa Building Systems Works has acquired ISO 9001 certification from the International Organization for Standardization based on a review of quality management.

The plant has also acquired environmental management system standard ISO 14001 certification.

Mitsubishi Elevator Asia Co., Ltd. has acquired ISO 9001 certification from the International Organization for Standardization based on a review of quality management.

The plant has also acquired environmental management system standard ISO 14001 certification.









MITSUBISHI ELECTRIC BUILDING SOLUTIONS CORPORATION

HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN

www.MitsubishiElectric.com/elevator

▲ Safety Tips: Be sure to read the instruction manual fully before using this product.

