

Quality in Motion^{*}

PASSENGER ELEVATORS MACHINE-ROOM-LESS SYSTEM

NEXIEZ -NRL







Utilizing its technological prowess and extensive experience, we have remained a leader in the vertical transportation market since entering the business in 1931. The Company's creative, innovative spirit, represented by production of the world's first spiral escalator and elevator group-control systems that use artificialintelligence technologies, continues to receive high evaluations industry-wide. Our products and systems are renowned for their high levels of quality, reliability and safety; and it is this sense of security and trust fostered with building owners and end-users alike that has led to the global expansion of our elevator/escalator business and the after-sales network to service it.

We understand responsibilities as a good corporate citizen, and continue to implement measures for protecting the environment and ensuring a sustainable society for future generations. A number of original technologies are being introduced to ensure more efficient products, systems and manufacturing operations, thereby enhancing productivity, reducing energy consumption and providing smoother, faster and more comfortable vertical transportation systems.

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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.

Safety

Efficiency

Comfort

Quality in Notion[®]

Ecology

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.



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	Ecology
	Efficiency
(Space-saving
	Safety
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	Basic Specifications
(Important Information on Elevator Planning

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Application (m/sec) 2.5 2.0 1.75 **NEXIEZ-MRL** 1.6 1.0 450 550 630 825 1050 1275

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







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.







Ecology

Using Energy Wisely

Our long-term commitment to developing energy-efficient elevators has created systems and functions that make intelligent use of power.

Milestones of Energy-saving Technologies in Elevator Development

	1970	198	-	1990	2000 Permanent magnet motor
Motor		Inc	luction motor		
Traction machine		W	orm geared		Gearless
Motor drive	AC2 control	ACVV ^{*1} co	ntrol		VVVF ^{*2} control
Control circuit	Relay			Mi	crocomputer
Power consumption / CO2 emissions*3	100%	93%	74%	37%	
Notes: *1: Alternative current, variable vo *2: Variable voltage, variable freq *3: CO2 emissions in this table are operation and do not include (manufacturing, transportation	uency from elevator emissions from				30% Арргох. -70%

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 energysaving effect of approximately 35%.*

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

Note:

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

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.





Maximizing Operational Efficiency and Minimizing Energy Consumption

Energy-saving Operation – Allocation Control: ESO-W (SAI-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.



Energy-saving effects: Approximately 35%.*



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Group Control Systems: SAI-22 and SAI-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 (ZAI-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.



[A hall call is registered at 6th Fl.] Allocates the closest car B. [Another hall call is soon registered at 11th Fl.] Allocates D, resulting in long wait of 26 sec.

Allocating Passengers to Cars Depending on Destination Floors

Destination Oriented Allocation System: DOAS (Optional for SAI-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.





Efficiency

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%



Maximum Speed and Car Load



[Number of passengers in the car when the maximum number of passengers is 14.]

Note: The Variable Traveling Speed Elevator System is applicable to elevators with a rated speed of 1.0m/sec.

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.



Hall Motion Sensor: HMS (Optional)



Multi-beam Door Sensor (Optional)



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.



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.



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.

- Operation by Emergency Power Source-Automatic/Manual: 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.



- 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.



Standard Design

Features (1/2)

■ EMERGENCY OPERATIONS AND FEATURES

Feature

Firefighters' Emergency Operation

MelEye Mitsubishi Elevators & Escalators Monitoring and

Operation by Emergency Power Source —

DOOR OPERATION FEATURES

Automatic Door Speed Contro

Door Nudging Feature — With Buzzer

Hall Motion Sensor

Safety Door Edge

lulti-beam Door Sensor

utomatic/Manual

Abbreviation

EER-S

WP-W

OEPS

DSAC

NDG

DKO-TB

obiects.

1-beam

2-beam

direction of the car.

Car



Car Design Example

Walls	SUS-HL
Transom panel ——	SUS-HL
Doors —	SUS-HL
Front return panels –	SUS-HL
Kickplate	Aluminum
Flooring —	PR803: Gray
Car operating panel $-$	CBV1-C760



Ceiling: Painted steel sheet (Y033) with a milky white resin lighting cover Lighting: Central lighting

Hall Design Example

Hall position indicator

SUS-HL

SUS-HL

and button — PIV1-A1010N Boxless

Jamb

Doors -

Hall

Narrow Jamb: E-102



Car operating panel



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

Hall position indicators and buttons



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

Please refer to the design guide for details and other designs

Actual colors may differ slightly from those shown.

Notes: 1C-2BC (1-car selective collective) - Standard, 2C-2BC (2-car group control system) - Optional ΣAI-22 (3- to 4-car group control system) - Optional, ΣAI-2200C (3- to 8-car group control system) - Optional (S)= Standard (O)= Optional += Not applicable to 1C-2BC −−= Not applicable #1: Please consult our local agents for the production terms, etc.

Notes:

*1: Maximum number of floors: 22 floors

*2: Some letters of the alphabets are not available. Please consult our local agents for details.

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URES			
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
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
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.)	0	0	0
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
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
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
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
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
Each elevator's status and operation can be remotely monitored and controlled through a panel installed in a building's supervisory room, etc.	0	0	© ^{#1}
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
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
When excessive door load has been detected while opening or closing, the doors immediately reverse.	S	S	S
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 service and ensure passenger safety.	S	S	S
Door open time is minimized using the SR or Multi-beam Door Sensor feature that detects passengers boarding or exiting.	0	0	0
When the button inside a car is pressed, the doors will remain open longer to allow loading and unloading of baggage, a stretcher, etc.	0	0	_

Description

Closing doors can be reopened by pressing the hall button corresponding to the traveling S S should an obstacle prevent the doors from closing, the doors will repeatedly open and S S lose until the obstacle is cleared from the doorway. 0 0 The sensitive door edge detects passengers or objects during door closing. One or two infrared-light beams cover the full width of the doors as they close S S to detect passengers or objects. (Cannot be combined with the Multi-beam 0 0 Door Sensor feature.)

0

0

0

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S

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

Multiple infrared-light beams cover some height of the doors to detect passengers or

objects as the doors close. (Cannot be combined with the SR feature.)

Features (2/2)

Feature	Abbreviation	Description	1C to 2C 2BC	ΣAI-22	SC to 8
OPERATIONAL AND SERVI	CE FEATUR	ES			
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 ^{#2}	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 Microprocessor	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.	© ^{#1}	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 supervisory panel, 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 on the supervisory panel, 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 FEATUR	FS				
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.	© †	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	_	© ^{#1}	0
Congested-floor Service	CFS	button on that floor. (Cannot be combined with hall position indicators.) 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

Feature	Abbreviation	Description		3C to 4C ΣAI-22	
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}
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.	© ^{#1}	© ^{#1}	© ^{#1}
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
Light-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.)	-	© ^{#1}	0
Lunchtime 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 (or closed only in China).	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.)	_	© ^{#1}	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.)	_	© ^{#1}	0
Up 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
VIP 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.	© †	0	0

SIGNAL AND DISPLAY 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	S
Car Arrival Chime	AECC (car)			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
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
Hall Information Display	HID	This 10.4- or 15-inch LCD for elevator halls 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	Ø
Hall LCD Position Indicator	HID-S	This 5.7-inch LCD for elevator halls shows the date and time, car position, travel direction and elevator status messages.	0	0	0
Immediate Prediction Indication	AIL	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 indicate which doors will open.	_	0	0
Intercommunication System	ITP	A system which allows communication between passengers inside a car and the building personnel.	0	0	0
Second Car Prediction	ТСР	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.	_	_	0
Sonic Car Button — Click Type	ACB	A click-type car button which emits electronic beep sounds when pressed to indicate that the call has been registered.	0	0	0
Voice Guidance System	AAN-G	Information on elevator service such as the current floor or service direction is given to the passengers inside a car.	0	0	0

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

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

 S = Standard
 O = Optional

 + = Not applicable to 1C-2BC
 -= Not applicable

 #1: Please consult our local agents for the production terms, etc.
 #2. Optional to 1C-2BC

#2: Optional when the operation system is 1C-2BC. #3:• When the DOAS is applied, AECC is ③ and the Safety Ray (SR) or Multi-beam Door Sensor feature should be installed.

•The DOAS cannot be combined with some features. Please refer to the Σ AI-2200C brochure for those features.

Basic Specifications

Horizontal Dimensions <1-Door 1-Gate>

Code	Number	Rated speed	Rated capacity	Door	Entrance width (mm)	Counter- weight	Car internal dimensions		ay dimensions (mm) BH/car													
number	persons	(m/sec)	(kg)	type	JJ	position	(mm)	Rated sp	eed (m/sec)													
							AAxBB	1.0 , 1.6 , 1.75	2.0 , 2.5													
P6	6		450		800		950x1300	1500x1740														
FO	0		430	25	000		1000x1200	1550x1740														
P7	7	1.0	550	23	800: Standard 900: Optional		1100x1300	1650x1740														
		1.6 1.75			900: Standard			1950x1720	- /													
				CO	800:Optional			1800x1720	- /													
P8	8		630		900:Standard		1100x1400	1000/17/20	- /													
				2S	800:Optional			1650x1800														
					900: Standard			2025x1720	2050x1720													
		1.0 1.6															CO	800:Optional	Side		1925x1720	2010x1720
P11	11													825		900:Standard		1350x1400	1900x1800	2010x1800		
											2S	1100:Optional			1950x1800	2060x1800						
											60	1100:Standard			2350x1720	2400x1720						
													1.0	1.0	-	CO	900:Optional		1600x1400	2150x1720	2260x1720	
																2S	1100			2150x1800	2260x1800	
P14	14														1.0	1.0	1050		900:Standard			1950x2420
														CO	800:Optional		1100x2100	1800x2420	1825x2420			
		1.75 2.0	1.75	1.75					1.75		2S	900:Standard		1100x2100	1650x2500	1760x2500						
				23	800:Optional			103082300	1700x2500													
		2.5		CO	1100	Rear	2000x1400	2490x1975	2490x2045													
P17	17		1275		1000	Side	1200x2300	2250x2625	2250x2625													
				2S		Side		2065x2670	2195x2670													
P18	18		1350 CC		1100	Rear	2000x1500	2490x2075	2490x2145													
				CO	CO	1100	neur	2100x1600	2590x2175	2590x2245												
P21	21	21											1600					2450x2725	2450x2725			
1 2 1	21		1000	2S	1200:Standard	Side	1400x2400	2215x2770	2345x2770													
					25	1300:Optional			2405x2770	2535x2770												

[Terms of the table]

· This table shows standard specifications without the fireproof landing door and 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.

Specifications for Variable Traveling Speed Elevator System (Optional) <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	Minimum pit depth (mm) PD *1
	1.0/1.25/1.5/1.6	450≤Q≤1050	TR≦30	3750	1550
1.0		4302021030	30 <tr≦60< td=""><td>3800</td><td>1650</td></tr≦60<>	3800	1650
1.0		1050 <q≦1600< td=""><td>TR≦ 30</td><td>4250</td><td>1800</td></q≦1600<>	TR≦ 30	4250	1800
		1050 <q=1000< td=""><td>30<tr≦60< td=""><td>4350</td><td>1900</td></tr≦60<></td></q=1000<>	30 <tr≦60< td=""><td>4350</td><td>1900</td></tr≦60<>	4350	1900

[Terms of the table]

• 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 and 21 are applicable to the Variable Traveling Speed Elevator System.

[Note]

*1: A shallower pit depth may be available, depending on the conditions. Please consult our local agents for details.

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	Minimum pit depth (mm) PD ^{*2}	Minimum floor to floor height (mm)	
	450≦Q≦1050	TR≦30		3650 *1	1300		
1.0	4002021000	30 <tr≦60< td=""><td>22</td><td>3650</td><td>1400</td><td></td></tr≦60<>	22	3650	1400		
1.0	1050 <q≤1600< td=""><td>TR≦30</td><td></td><td>4100</td><td>1550</td><td></td></q≤1600<>	TR≦30		4100	1550		
	1050 (Q=1000	30 <tr≦60< td=""><td></td><td>4200</td><td>1650</td><td></td></tr≦60<>		4200	1650		
		TR≦30		3750	1550		
	450≦Q≦1050	30 <tr≦60< td=""><td>30</td><td>3800</td><td>1650</td><td></td></tr≦60<>	30	3800	1650		
1.6		60 <tr≦80< td=""><td></td><td>3850</td><td>1700</td><td></td></tr≦80<>		3850	1700		
1.0		TR≦30		4250	1800		
	1050 <q≦1600< td=""><td>30<tr≦60< td=""><td>26</td><td>4350</td><td>1900</td><td></td></tr≦60<></td></q≦1600<>	30 <tr≦60< td=""><td>26</td><td>4350</td><td>1900</td><td></td></tr≦60<>	26	4350	1900		
		60 <tr≦70< td=""><td></td><td>4400</td><td>1950</td><td></td></tr≦70<>		4400	1950		
	450≦Q≦1050	TR≦30	30	3850	1600		
		30 <tr≦60< td=""><td>3900</td><td>1700</td><td></td></tr≦60<>		3900	1700		
1.75		60 <tr≦80< td=""><td></td><td>3950</td><td>1750</td><td></td></tr≦80<>		3950	1750		
1.75	1050 <q≦1600< td=""><td>TR≦30</td><td rowspan="2">26</td><td>4350</td><td>1850</td><td>2500</td></q≦1600<>	TR≦30	26	4350	1850	2500	
		30 <tr≦60< td=""><td>4450</td><td>1950</td><td>2500</td></tr≦60<>		4450	1950	2500	
		60 <tr≦70< td=""><td></td><td>4500</td><td>2000</td><td></td></tr≦70<>		4500	2000		
		TR≦30		3900	1700		
	825≦Q≦1050	30 <tr≦60< td=""><td></td><td>3950</td><td>1800</td><td></td></tr≦60<>		3950	1800		
2.0		60 <tr≦80< td=""><td></td><td>4000</td><td>1850</td><td></td></tr≦80<>		4000	1850		
2.0		TR≦30		4450	1850		
	1050 <q≦1600< td=""><td>30<tr≦60< td=""><td></td><td>4500</td><td>1950</td><td></td></tr≦60<></td></q≦1600<>	30 <tr≦60< td=""><td></td><td>4500</td><td>1950</td><td></td></tr≦60<>		4500	1950		
		60 <tr≦80< td=""><td>30</td><td>4550</td><td>2000</td><td></td></tr≦80<>	30	4550	2000		
		TR≦30] 30	4150	2050		
	825≦Q≦1050	30 <tr≦60< td=""><td></td><td>4200</td><td>2150</td><td></td></tr≦60<>		4200	2150		
2.5		60 <tr≦80< td=""><td></td><td>4250</td><td>2200</td><td></td></tr≦80<>		4250	2200		
2.5		TR≦30		4650	2200		
	1050 <q≦1600< td=""><td>30<tr≦60< td=""><td></td><td>4700</td><td>2300</td><td></td></tr≦60<></td></q≦1600<>	30 <tr≦60< td=""><td></td><td>4700</td><td>2300</td><td></td></tr≦60<>		4700	2300		
		60 <tr≦80< td=""><td></td><td>4750</td><td>2350</td><td colspan="2"></td></tr≦80<>		4750	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 2500mm 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: Minimum overhead (OH) may vary depending on conditions. *2: A shallower pit depth may be available, depending on the conditions. Please consult our local agents for details.

Hoistway Plan <1-Door 1-Gate>



Basic code compliance

The dimensional information shown here in this page is based on the requirements of EN81-1. For other components, please consult our local agent.



Basic Specifications

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

Code number	Number of persons	Rated speed (m/sec)	Rated capacity (kg)	Door type	Entrance width (mm) JJ	Car internal dimensions (mm) AAxBB	AHxE	y dimensions (mm) BH/car red (m/sec)										
					900 : Standard		1.0 , 1.0 , 1.7 5	2.0, 2.5										
		1.0		CO			1905x1800											
P8	8	1.6	630		800: Optional 900: Standard	1100x1400	1715x1982											
		1.75		25														
					800:Optional		1650x1982	2115-1060										
														СО	900 : Standard		2090x1860	2115x1860
P11	11	11	825		800:Optional	1350x1400	1925x1860	2010x1860										
				25	900 : Standard		1900x1982	2010x1982										
					1100:Optional		1965x1982	2075x1982										
		1.0										со	1100:Standard		2415x1860	2440x1860		
			1050	0	900: Optional	1600x1400	2150x1860	2260x1860										
		1.6		25	1100		2150x1982	2260x1982										
P14	14	1.0			900: Standard		1950x2560	2000x2560										
		2.0			800:Optional		1800x2560	1825x2560										
				26	900 : Standard	1100x2100	1650 2602	17(0.0(00										
		2.5		2S	800:Optional		1650x2682	1760x2682										
017	17	1	1075	CO	1000	1200 2200	2250x2790	2250x2790										
P17	17		1275	25	1100	1200x2300	2065x2882	2195x2882										
		1		CO	1100		2450x2890	2450x2890										
P21	21		1600	25	1200: Standard	1400x2400	2215x2982	2345x2982										
				25	1300:Optional		2405x2982	2535x2982										

[Terms of the table]

This table shows standard specifications without the fireproof landing door and 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>



Basic code compliance

The dimensional information shown here in this page is based on the requirements of EN81-1. For other components, please consult our local agent.

Elevation <1-Door 2-Gate>



Important Information on Elevator Planning

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 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 a ladder to the elevator pit.
- 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.

- 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 shall be provided against icing and condensation occurring due to a rapid drop in the temperature 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.

• 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.



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

www.MitsubishiElectric.com/elevator

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

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