

PASSENGER ELEVATORS MACHINE-ROOM-LESS SYSTEM



NEXIEZ -NEZ



2nd Edition



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

Mitsubishi Electric 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, Mitsubishi Electric promises 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.

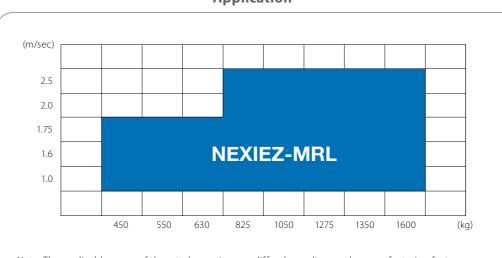
We take every action to reduce environmental burden during each process of our elevators' and escalators' lifecycle.



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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 Mitsubishi Electric products. Regardless of the use or purpose, the NEXIEZ is a best match solution for virtually any elevator installation.













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Reusing Energy

Regenerative Converter: PCNV (Optional)

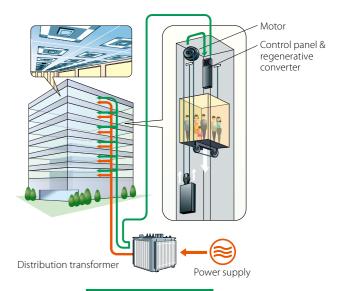
Elevators usually travel using power from a power supply (powered operation); however, when they travel down with a heavy car load or up with a light car load (regenerative operation), the traction machine functions as a power

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.

*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.



Approximately 75% reduction

Advantages of LEDs Ceiling: L210S LED downlights (yellow-orange) Ceiling: L210S Service life (hr) Power consumption (W) 2000 Incandescent

Maximizing Operational Efficiency and Minimizing Energy Consumption

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

Approximately 12.5 times longer

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.

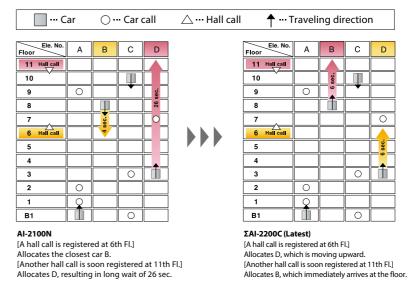


Note: Simulated with 6 cars, 20 persons each at 2 5m/sec for 15 stops

Forecasting a Near-future Hall Call to Reduce Long Waits

Cooperative Optimization Assignment (ΣAI-2200C)

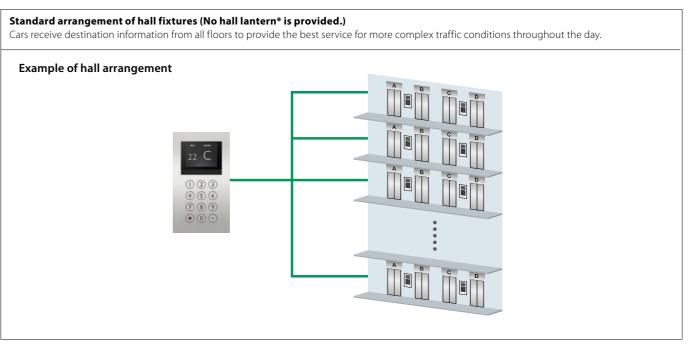
When a hall call is registered, the algorithm assumes a near-future calls that could require long waits. Through evaluation of the registered hall call and the forecasted call, the best car is assigned. All cars work cooperatively for optimum operation.



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:

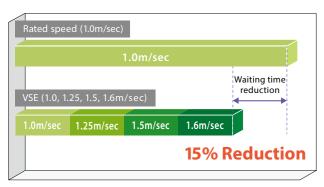
^{*} Hall lanterns are available as optional.

Space-saving

Variable Traveling Speed Elevator System: VSE (Optional)

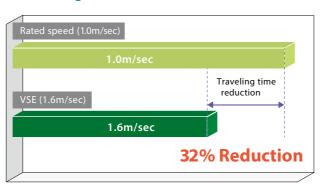
With Mitsubishi Electric's industry-first variable traveling speed elevator system, an elevator can travel faster than its rated speed according to the number of passengers, ultimately reducing waiting and traveling time.

Waiting Time Reduction



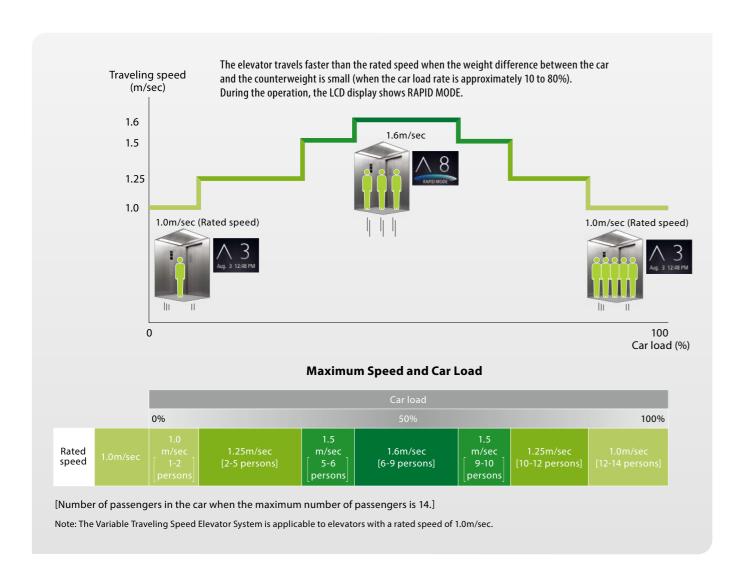
According to Mitsubishi Electric's simulation, waiting time can be reduced up to approximately 15% when VSE is applied.

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.



Hall Motion Sensor: HMS (Optional)



Multi-beam Door Sensor (Optional)





LEDs light up when doors are opening/closing.

Multi-beam Door Sensor - Signal Type: MBSS (Optional)

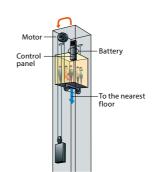
Emergency Situations Emergency Operations fire or earthquake.

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

Power failure

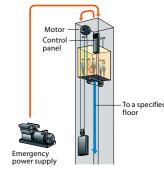
Mitsubishi Emergency Landing Device: MELD (Optional)

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/Manual: OEPS (Optional)

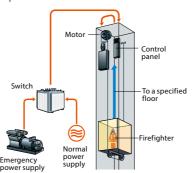
Upon power failure, predetermined car(s) use a building's emergency power supply to move to a specified floor and open the doors for passengers to evacuate. After all cars have arrived, predetermined car(s) resume normal operation.



Fire

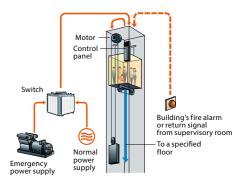
Firefighters' Emergency Operation: FE (Optional)

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)

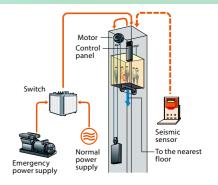
When a key switch or a building's fire alarm is activated, all cars immediately return to a specified floor and open the doors to facilitate the safe evacuation of passengers.



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

Features (1/2)

■ EMERGENCY OPERATIONS AND FEATURES

EER-S

ach elevator's status and operation can be monitored and controlled using a building

Upon activation of primary and/or secondary wave seismic sensors, all cars stop at the

Car lighting which turns on immediately when power fails, providing a minimum level of

Jpon activation of a key switch or a building's fire alarm, all calls are canceled, all cars

nmediately return to a specified evacuation floor and the doors open to facilitate the safe

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 firefighting and rescue operation.

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. 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

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

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

Door load on each floor, which can depend on the type of hall doors, is monitored to

When excessive door load has been detected while opening or closing, the doors

adjust the door speed, thereby making the door speed consistent throughout all floors.

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

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

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

Failure of non-contact door sensors is checked automatically, and if a problem is

When the button inside a car is pressed, the doors will remain open longer to allow

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 or MBSS feature.) Multiple infrared-light beams cover some height of the doors to detect passengers or objects as the doors close. Additionally, LED lights on the door edge will indicate the door

ppening/closing and the presence of an obstacle between the doors. (Cannot be combined with any of the following features: SDE, SR or Multi-beam Door Sensor.) Closing doors can be reopened by pressing the hall button corresponding to the traveling

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

One or two infrared-light beams cover the full width of the doors as they close

to detect passengers or objects. (Cannot be combined with the Multi-beam

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

passengers. After all cars have arrived, predetermined cars resume normal operation. Each elevator's status and operation can be remotely monitored and controlled through a

panel installed in a building's supervisory room, etc.

mmediately reverse

sound instead of the buzzer.

elevator service and ensure passenger safety.

oading and unloading of baggage, a stretcher, etc.

close until the obstacle is cleared from the doorway

Door Sensor or MBSS feature.)

(Cannot be combined with the MBSS feature.)

evacuation of passengers. (Maximum allowable floor-to-floor distance is 11 meters.)

nearest floor, and park there with the doors open to facilitate the safe evacuation of

ighting within the car. (Choice of dry-cell battery or trickle-charge battery.)

management system which manages various facilities in the building via the interface for

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Feature

Earthquake Emergency Retur

ire Emergency Return

Operation by Emergency Power Source

■ DOOR OPERATION FEATURES

automatic Door Speed Contro

Door Nudging Feature — With Buzzer

Electronic Doorman

Hall Motion Sensor

Signal Type

epeated Door-close

ulti-beam Door Sensor



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

Car operating panel



For front return panel





CBV1-C760*

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

Notes:

Narrow Jamb: E-102



Hall Design Example

Jamb ——	— SUS-HL
Doors —	— SUS-HL
Hall position	indicator
and hutton.	DIV1_Δ1010N Boxless

ım	number	of floors.	22	floor

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

Hall position indicators and buttons

With plastic case





PIV1-A1010N Boxless PIV1-A1020N Boxless

Actual colors may differ slightly from those shown. Please refer to the design guide for details and other designs

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

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

direction of the car.

- (S)= Standard (O)= Optional += Not applicable to 1C-2BC ---= Not applicable
- #1: When 2C-2BC, please consult our local agents.
- #2: Please consult our local agents for the production terms, etc.

Features (2/2)

Feature	Abbreviation	Description	1C to 2C 2BC	3C to 4C ΣΑΙ-22	3C to 80 ΣΑΙ-2200
OPERATIONAL AND SERVI		·	250	ZAI-22	ZAI-2200
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
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	ccc	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
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
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.	o #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 operatio		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 SpeedElevator 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	ES				
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.	⊚ ^{#1}	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.)	_	© #1	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.	_	_	o #
Allocation System	DONS				•

Feature	Abbreviation	Description	1C to 2C 2BC	3C to 4C ΣAI-22	3C to 8C ΣΑΙ-2200C
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	Using a smartphone equipped with the application, users can change the call setting for their elevator and check the status of the elevator assigned to them. Once inside the secure area, users can call an elevator remotely from anywhere.	_		o #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.	(3)	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	0	S
Car Arrival Chime	AECC (car)	Electronic chimes sound to indicate that a car will soon arrive. (The chimes are mounted	0	0	_
Cai Airivai Cilline	AECH (hall)	either on the top and bottom of the car, or in each hall.)	0	0	S
Car Information Display	CID	This LCD (10.4- or 15-inch) for car front return panels shows the date and time, car position, travel direction and elevator status messages. In addition, customized video images can be displayed in full-screen or partial-screen formats.	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
Hall Information Display	HID	This LCD (10.4- or 15-inch) for elevator halls shows the date and time, car position, travel direction and elevator status messages. In addition, customized video images can be displayed in full-screen or partial-screen formats.		0	0
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 (Q)= Optional += Not applicable to 1C-2BC —= Not applicable #1: Please consult our local agents for the production terms, etc.

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

^{#3: •} When the DOAS is applied, AECC is 🕲 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 of	Rated speed	Rated capacity	Door Entrance wi		Counter- weight	Car internal dimensions	Minimum hoistway dimensions (mm) AHxBH/car												
number	persons	(m/sec)	(kg)	type	JJ ,	position	(mm) AAxBB	Rated sp	eed (m/sec)											
							AAXDD	1.0 , 1.6 , 1.75	2.0, 2.5											
P6	6		450		800		950x1300	1500x1740												
			150	2S			1000x1200	1550x1740												
P7	7	1.0	550	23	800: Standard 900: Optional		1100×1300	1650x1740												
		1.6			900 : Standard			1950x1720	/											
		1.75		CO	800:Optional			1800x1720	/											
P8	8		630		900 : Standard		1100x1400		/											
				2S	800:Optional			1650x1800												
					900 : Standard			2025x1720	2050x1720											
D1.1	P11 11		825	CO	800:Optional	Side	1350x1400	1925x1720	2010x1720											
PII				20	900 : Standard			1900x1800	2010x1800											
									25	1100:Optional			1950x1800	2060x1800						
															CO	1100:Standard			2350x1720	2400x1720
													CO	900:Optional		1600x1400	2150x1720	2260x1720		
			1050	2S	1100			2150x1800	2260x1800											
P14	14	1.0 1.6		1050	1050	CO	900 : Standard			1950x2420	2000x2420									
					CO	800:Optional		1100x2100	1800x2420	1825x2420										
		1.75		2S	900 : Standard		1100x2100	1650x2500	1760x2500											
		2.0		23	800:Optional	_														
		2.5		CO	1100	Rear	2000x1400	2490x1975	2490x2045											
P17	17		1275		1000	Side	1200x2300	2250x2625	2250x2625											
				2S	-			2065x2670	2195x2670											
P18	18		1350		1100	Rear	2000×1500	2490x2075	2490x2145											
				CO			2100×1600	2590x2175	2590x2245											
P21	21		1600		1000 6 1 1	C: -I -	1400 2400	2450x2725	2450x2725											
			. 500	2S	1200 : Standard	Side	1400×2400	2215x2770	2345x2770											
					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		450 <u>2</u> Q21050	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
		1030 <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.

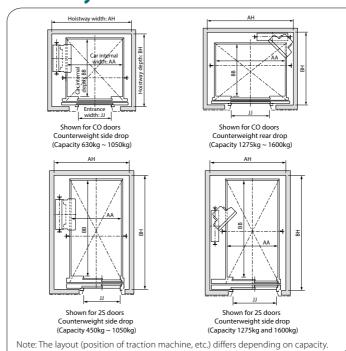
Vertical Dimensions <1-Door 1-Gate & 1-Door 2-Gate>

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)
	4E0<0<10E0	TR≦30		3650 *1	1300	
1.0	450≦Q≦1050	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	
	1030 <q<u>21000</q<u>	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	
		TR≦30	30	3850	1600	
	450≦Q≦1050	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./3	1050 <q≦1600< td=""><td>TR≦30</td><td></td><td>4350</td><td>1850</td><td>2500</td></q≦1600<>	TR≦30		4350	1850	2500
		30 <tr≦60< td=""><td>26</td><td>4450</td><td>1950</td><td>2500</td></tr≦60<>	26	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]	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	
2.3		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></td></tr≦80<>		4750	2350	

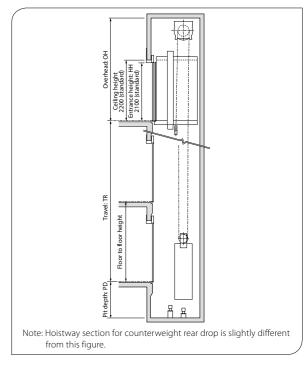
[Terms of the table

- 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.
- *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>



Elevation <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.

Important Information on Elevator Planning

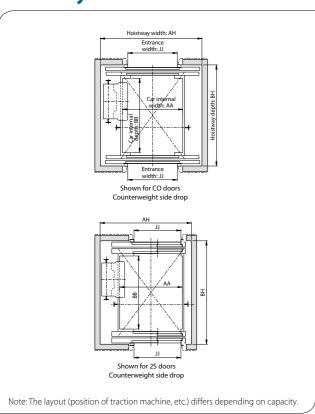
Horizontal Dimensions <1-Door 2-Gate> <Counterweight position: side>

Code Number of		Rated	Rated	Door	Entrance width	Car internal dimensions	Minimum hoistway dimensions (mm) AHxBH/car	
number	number persons	speed (m/sec)	capacity (kg)	type	(mm) JJ	(mm)	Rated spe	ed (m/sec)
						AAxBB	1.0 , 1.6 , 1.75	2.0, 2.5
		1.0		СО	900: Standard		1965x1860	
P8	8	1.6	630		800:Optional	1100x1400	1865x1860	
го	0	1.75	030	2S	900: Standard	1100X1400	1715x1982	
		1./3		23	800:Optional		1650x1982	
				СО	900: Standard		2090x1860	2115x1860
P11	P11 11		825	CO	800:Optional	1350x1400	1925x1860	2010x1860
FII II		023	2S	900: Standard	1330X1400	1900x1982	2010x1982	
				23	1100:Optional		1965x1982	2075x1982
		1.0 1.6 1.75		CO	1100: Standard	1600x1400	2415x1860	2440x1860
			1050		900:Optional		2150x1860	2260x1860
				2S	1100		2150x1982	2260x1982
P14	14			СО	900: Standard	1100x2100	1950x2560	2000x2560
		2.0		CO	800:Optional		1800x2560	1825x2560
		2.5		2S	900: Standard	1100X2100	1650x2682	1760x2682
				23	800:Optional		1030X2002	1700X2002
P17	17		1275	CO	1000	1200x2300	2250x2790	2250x2790
FI/	7 17		12/3	2S	1100	120082300	2065x2882	2195x2882
				CO	1100		2450x2890	2450x2890
P21	21		1600	2S	1200 : Standard	1400x2400	2215x2982	2345x2982
				23	1300: Optional		2405x2982	2535x2982

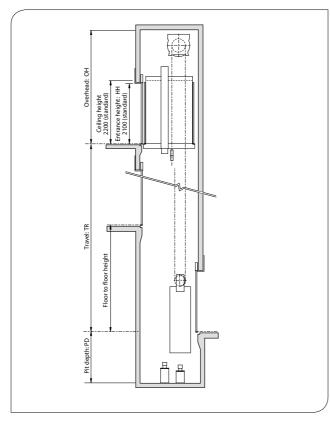
[Terms of the table

- 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>



Elevation <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.

Work Not Included in Elevator Contract

The following items are excluded from Mitsubishi Electric's elevator installation work. Their details or conditions are to be conformed to the statement of local laws or Mitsubishi Electric elevator's requirements, are therefore 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.
- Separate beams, when the hoistway dimensions markedly exceed the specifications, 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 Mitsubishi Electric's 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 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.

1 22



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

Mitsubishi Electric 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 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 Corporation Inazawa 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.

ISO 9001
BUREAU VERITAS
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.







Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

MITSUBISHI ELECTRIC 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.

