

PASSENGER ELEVATORS





# NEXIEZ -MR **2nd Edition**

Utilizing its technological prowess and extensive experience, Mitsubishi Electric has 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.

Comfort

# Quality in Motion

#### 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.

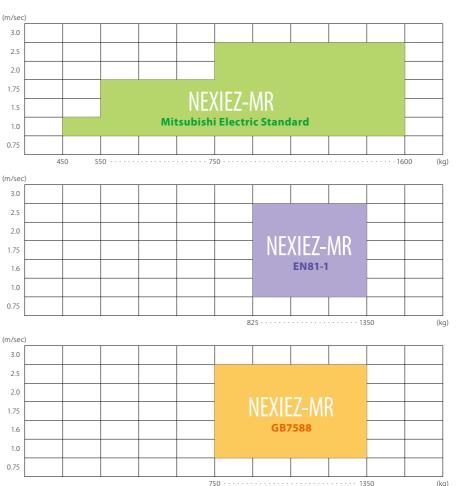
Efficiency

# 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.

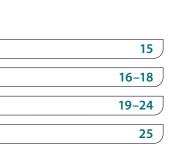


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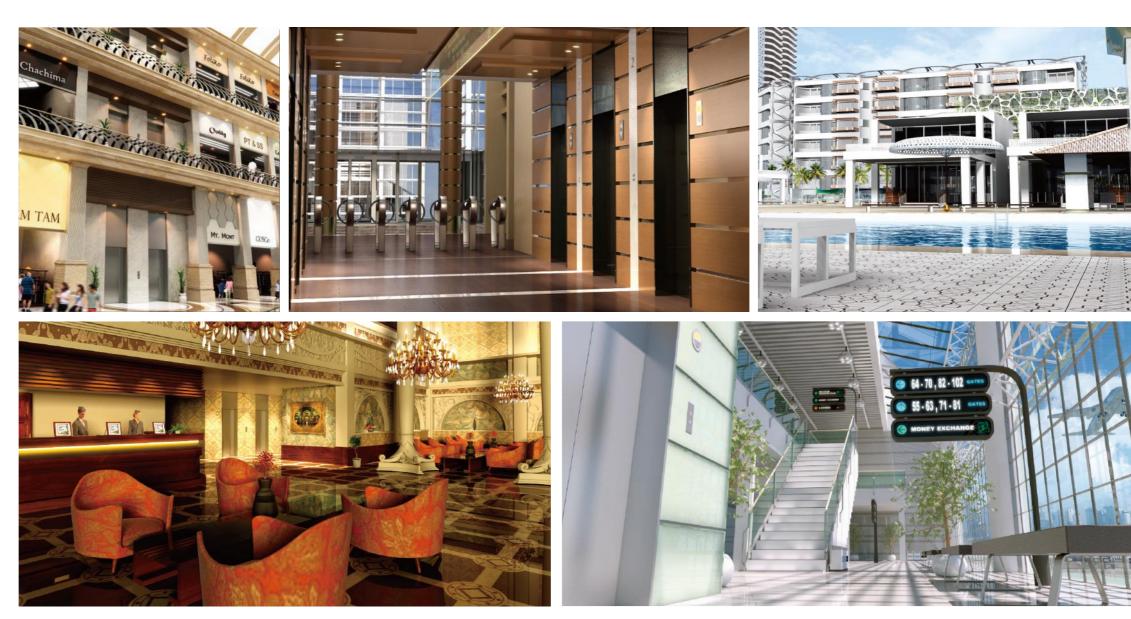
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# Welcome to a New Era in Vertical Transportation Introducing the NEXIEZ...

... 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.







# Ecology

#### **Using Energy Wisely**

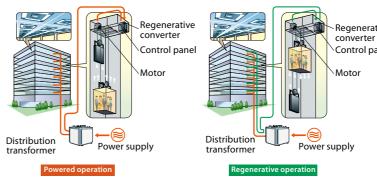
Our long-term commitment to developing energy-efficient elevators has created systems and functions that make intelligent use of power.

Milestones of Energy-saving Technologies in Elevator Development 1990 1980 1970 Permanent magnet motor Induction motor Motor Gearless Traction machine Worm geared Motor drive AC2 control ACVV<sup>\*1</sup> control VVVF<sup>\*2</sup> control Control circuit Relay Microcomputer Power consumption CO<sub>2</sub> emissions (kg/year)\*3 30% Notes -70% \*1: Alternative current, variable voltage \*2: Variable voltage, variable frequency 1610 \*3: • CO<sub>2</sub> emissions in this table are from elevator operation and do not include emissions from manufacturing, transportation and other processes Calculated from power consumption with a coefficient of 0.6kg/kWh. • The CO2 emissions values in this table vary according to conditions

#### **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 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 up to 35%. (Reduction in CO<sub>2</sub> emissions: 1400 kg/year) In addition, the Regenerative Converter has the effect of decreasing harmonic currents.

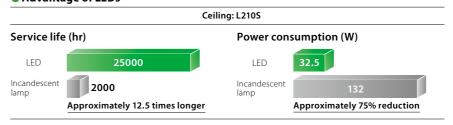


#### **Devices that Use Less Energy**

#### LED Lighting (Optional)

Energy-efficient LEDs consume less power than conventional lamps. Used for ceiling lights and hall lanterns, LEDs boost the overall energy performance of the building. Furthermore, the long service life eliminates the need for frequent lamp replacement.

#### Advantage of LEDs



#### **Energy-saving Features**

Mitsubishi Electric offers features that help to reduce the energy consumption of elevators.

Energy-saving Operation – Number of Cars (ESO-N) (Optional for ΣAI-22) The number of service cars is automatically reduced to some extent without affecting passenger waiting time.

Energy-saving Operation – Allocation Control (ESO-W) (SAI-2200C only) Based on each elevator's potential energy consumption, the system selects the elevator that best balances operational efficiency and energy consumption. Please refer to page 10 for details.

Car Light/Fan Shut Off – Automatic (CFO-A/CLO-A) The car lighting/ventilation fan is automatically turned off if there are no calls for a specified period.

#### **Enhancing Energy Efficiency**

Regenerative Control panel

**Traction Machine with PM Motor** (PM motor: Permanent magnet motor)

The joint-lapped core built in the PM motor of the traction machine features flexible joints. The iron core can be like a hinge, which allows coils to be wound around the core more densely, resulting in improved motor efficiency and compactness. High-density magnetic field is produced, enabling lower use of energy and resources and reduced CO<sub>2</sub> emissions. In addition, we have adopted a 2:1 (single-wrap) roping system, which lessens load on the traction machine, and allows further reductions in traction machine size.





Gearless traction machine with PM motor





Ceiling: L210S LED downlights (yellow-orange)

# Efficiency

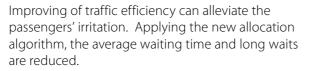
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#### **Smooth Mobility through Efficient Group Control**

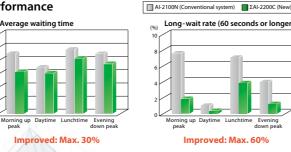
When a building is expected to have heavy traffic, optimum car allocation suited for every condition makes a big difference in preventing congestion at a lobby floor and reducing long waits.

Group Control Systems: ΣΑΙ-22 and ΣΑΙ-2200C  $\Sigma$ AI-22 and  $\Sigma$ AI-2200C control multiple elevators optimally according to the building size.

Group control systems	Suitable building size	Number of cars in a group
ΣAI-22 system	Small to medium	3 to 4 cars
ΣAI-2200C system	Large (Especially buildings with dynamic traffic conditions)	3 to 8 cars





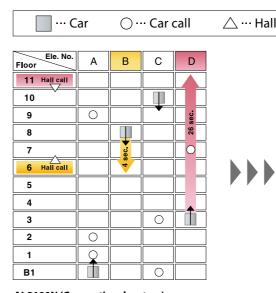


# Improved: Max. 30%

#### Forecasting a Near-Future Hall Call to Reduce Long Waits

#### **Cooperative Optimization Assignment**

When a hall call is registered, the algorithm assumes a near-future call 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.



#### AI-2100N (Conventional system) [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.

#### Maximizing Operational Efficiency and Minimizing Energy Consumption

Energy-saving Operation — Allocation Control (ESO-W) 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.

Car allocation that maximizes operational efficiency does not necessarily translate to energy efficiency. A car uses energy efficiently when it travels down with a heavy load, or up with a light load. Accordingly, if multiple cars have the same traveling distance, this system chooses the car that requires the least energy.

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.

Ele. No. Floor	Α	В	С	D
9		İİ		
8				
7				
6 Hall call				
5				
4				
3		Ó		
2				
1				

#### Initial conditions: non-peak period Car A: Parked at the 3rd floor Car B: About to leave the 9th floor with several passengers Car C: Parked at the 9th floor. Car D: Parked at the 1st floor Under the conditions above, when a hall call is registered at the 6th floor to go to the 1st floor, waiting time and traveling distance will be the same regardless of whether car A, B or C responds to the call. In response to the call, the cars will operate in the following ways:

Car A will travel up with no passengers and then down with only one passenger (requires more energy than car B). Car B will travel down with more passengers than car A (requires the least energy). Car C will travel down with no passengers and then down with only one passenger (requires the most energy). Car selection

During non-peak hours when energy efficiency is prioritized, car B is selected.

l call	<b>↑</b> … T	raveli	ng dir	ectior	า
	Ele. No.				
	Floor	Α	В	С	D
	11 Hall call				
	10		sec.		
	9	0	9		
	8				
	7				0
	6 Hall call				
	5				e sec.
	4				
	3			0	
	2	0			
	1	$\mathbf{Q}$			
	B1			0	

#### ΣAI-2200C (New)

[A hall call is registered at 6th Fl.] Allocates D, which is moving upward. [Another hall call is soon registered at 11th Fl.] Allocates B, which immediately arrives at the floor.

# Safety and Comfort

#### Selecting Optimum Car Allocation through Rule-set Simulations

#### **Dynamic Rule-set Optimizer**

Based on real traffic data, passenger traffic is predicted every few minutes. According to the prediction, real-time simulation selects the best rule-set (multiple rules have been set as car allocation patterns), which optimizes transport efficiency.

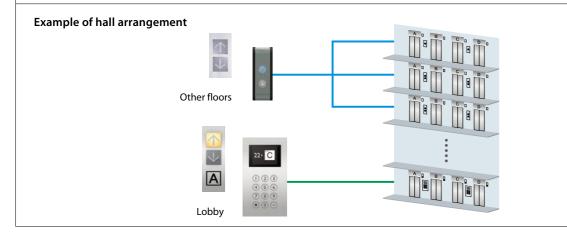
#### **Allocating Passengers to Cars Depending on Destination Floors**

#### **Destination Oriented Prediction System (DOAS-S) (Optional)**

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.

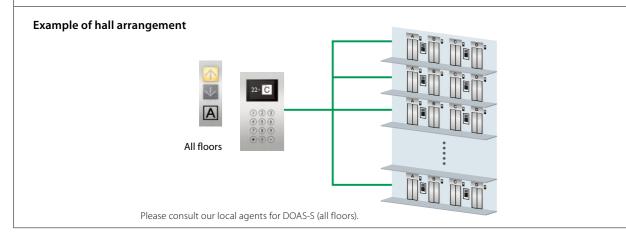
#### DOAS-S (Lobby floor(s))

DOAS-S hall operating panels are installed only on busy floor(s) such as the lobby while other floors have conventional hall fixtures. This is particularly beneficial for improving the traffic flow leaving from the busy floor. It is especially useful in buildings with heavy up-peak traffic.



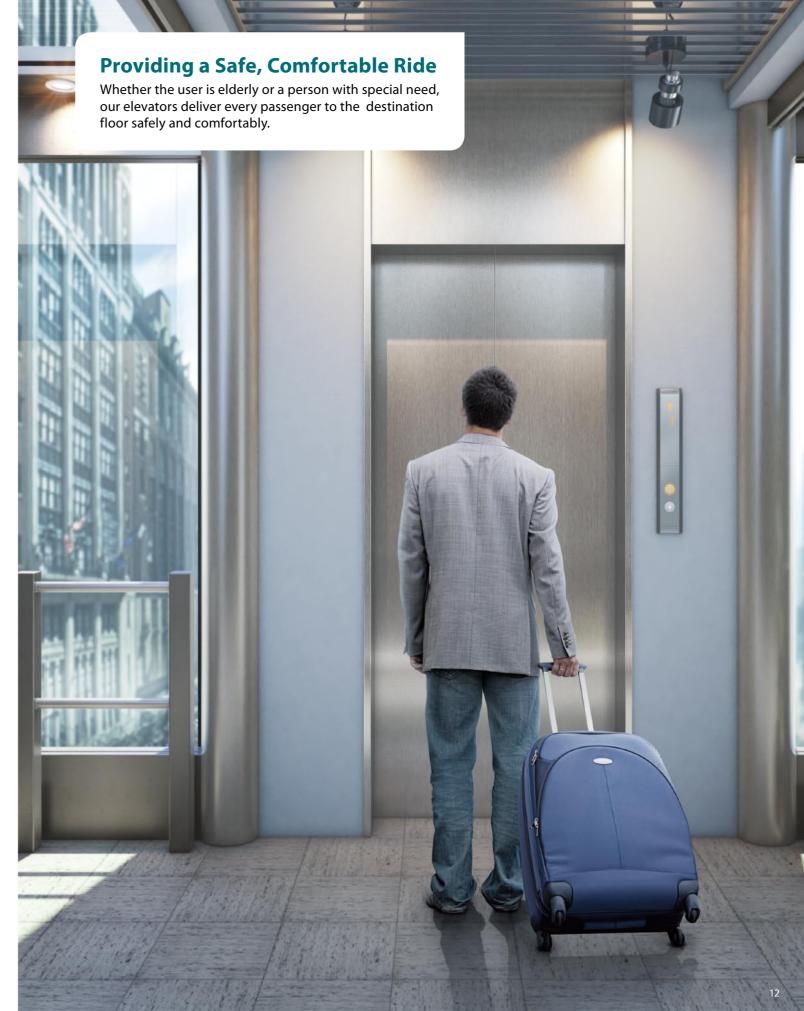
#### DOAS-S (All floors)

DOAS-S hall operating panels are installed on all floors. Cars receive destination information from all floors to provide the best service for more complex traffic conditions throughout the day.



The features introduced on these pages are applicable to  $\Sigma$ AI-2200C only. Please refer to page 17 and 18, and the  $\Sigma$ AI-2200C brochure for other features and details.





#### **Emergency Situations**

#### **Emergency operations\***

Enhance safety by adding emergency operation features which quickly respond to a power failure, fire or earthquake.

	<b>Mitsubishi Emergency Landing Device (MELD) (Optional)</b> Upon power failure, a car automatically moves to the nearest floor using a rechargeable battery to facilitate the safe evacuation of passengers.
Power failure	<b>Operation by Emergency Power Source — Automatic/Manual (OEPS) (Optional)</b> 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) will resume normal operation.
Fire	<b>Fire Emergency Return (FER) (Optional)</b> When a key switch or a building's fire sensors are activated, all cars immediately return to a specified floor and open the doors to facilitate the safe evacuation of passengers.
	<b>Firefighters' Emergency Operation (FE) (Optional)</b> 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 fire-fighting and rescue operations.
Earthquake	<b>Earthquake Emergency Return (EER-P/EER-S) (Optional)</b> 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.

\*Please refer to page 16 for details.

#### For Safe Boarding

#### Door safety devices

Our reliable safety device ensures that the doors are clear to open and close. Depending on the type of sensor, the detection area differs.

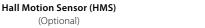


(Optional)



Multi-beam Door Sensor

(Optional)





#### For Comfortable Use

#### **User-oriented Design**

Great care is taken in the design and manufacture of each and every elevator part to ensure a comfortable, user-friendly ride.

#### **Clear Font**

The font for indicators and buttons is highly visible. On tactile buttons in particular, the font makes letters/numbers easy for visually-impaired passengers to distinguish.

## 1234567890

LCD Position Indicators (Car/hall) (Optional) Clear, bright LCD indicators deliver information clearly and effectively.



(CID-S)



**Mirror** (Optional) Providing enhanced visibility, a rear-wall mirror assists wheelchair users in exiting the elevator safely.

Handrail (Optional) The handrail thickness is ergonomically designed for comfortable use.



(HID-S)

Please refer to the brochure of design guide for other signal fixtures and interior, etc.

# **Standard Design**

# Features (1/2)

#### Car



#### Car Design Example

Walls	SUS-HL
Transom panel ——	SUS-HL
Doors	SUS-HL
Front return panels $-$	SUS-HL
Kickplate	Aluminum
Flooring	PR803
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-A710N 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



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.

Fea	ature	Description	1C- 2BC	2C- 2BC	3C to 4C ΣΑΙ-22	3C to 8C ΣΑΙ-2200C
EMERGENCY	OPERATIONS ANI	D FEATURES	200	200	2111 22	
Mitsubishi Emer Device (MELD)	gency Landing	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 10 meters.)	0	0	0	0
Operation by En Source — Autor (OEPS)	nergency Power natic/Manual	Upon power failure, predetermined car(s) use a 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, predetermined car(s) will resume normal operation.	0	0	0	0
Fire Emergency	Return (FER)	Upon activation of a key switch or a building's fire sensors, 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	0
Firefighters' Em (FE)	ergency Operation	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 operations.	0	0	0	0
Earthquake Eme (EER-P/EER-S)	ergency Return	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	0
Supervisory Pan	iel (WP)	Each elevator's status and operation can be remotely monitored and controlled through a panel installed in a building's supervisory room, etc.	0	© <sup>#1</sup>	0	© <sup>#1</sup>
MelEye (WP-W) Mitsubishi Eleva Monitoring and	itors & Escalators Control System	Each elevator's status and operation can be monitored and controlled using an advanced Web-based 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	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.)	0	0	0	0
DOOR OPER	TION FEATURES					
Door Sensor Sel (DODA)	f-diagnosis	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	S
Automatic Door (DSAC)	Speed Control	Door load on each floor, which can depend on the type of hall door, is monitored to adjust the door speed, thereby making the door speed consistent throughout all floors.	S	S	S	S
Automatic Door Adjustment (DC		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
Reopen with Ha	ll Button (ROHB)	Closing doors can be reopened by pressing the hall button corresponding to the traveling direction of the car.	S	S	S	S
Repeated Door-	close (RDC)	Should an obstacle prevent the doors from closing, the doors will repeatedly open and close until the obstacle is cleared from the doorway.	S	S	S	S
Door Nudging F — With Buzzer (		A buzzer sounds and the doors slowly close when they have remained open for longer than the preset period. With AAN-B or AAN-G, a beep and voice guidance sound instead of the buzzer.	S	S	S	S
Door Load Dete	ctor (DLD)	When excessive door load has been detected while opening or closing, the doors immediately reverse.	S	S	S	S
Safety Ray (SR)	1-Beam	One or two infrared-light beams cover the full width of the doors as they close to detect	S	S	S	S
	2-Beam	passengers or objects. (Cannot be combined with the multi-beam door sensor or MBSS feature.)	0	0	0	0
Extended Door- (DKO-TB)	open Button	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	0	—
Safety Door Edge (SDE)	One side	Sensitive door edge(s) detect passengers or objects during door closing.	0	0	0	0
	Both sides (CO doors only)	(Cannot be combined with the MBSS feature.)	0	0	0	0
Electronic Door	man (EDM)	Door open time is minimized using safety ray(s) or multi-beam door sensors that detect passengers boarding or exiting.	0	0	0	0
Multi-beam Doo	or Sensor	Multiple infrared-light beams cover a door height of approximately 1800mm to detect passengers or objects as the doors close. (Cannot be combined with the SR or MBSS feature.) Please refer to page 13.	0	0	0	0
Multi-beam Door Sensor — Signal Type (MBSS)		Multiple infrared-light beams cover a door height of approximately 1800mm to detect passengers or objects as the doors close. Additionally, LED lights on the door edge will indicate the door opening/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.) Please refer to page 13.		0	Ø	0
Hall Motion Sen	sor (HMS)	Infrared-light is used to scan a 3D area near the open doors to detect passengers or objects. Please refer to page 13.	0	0	0	0

Fea	ature	Description	1C- 2BC	2C- 2BC	3C to 4C ΣΑΙ-22	3C to 80 ΣΑΙ-2200
EMERGENCY	OPERATIONS AN	D FEATURES				
Mitsubishi Emer Device (MELD)	gency Landing	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 10 meters.)	0	0	0	0
Operation by En Source — Autor (OEPS)	nergency Power natic/Manual	Upon power failure, predetermined car(s) use a 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, predetermined car(s) will resume normal operation.	0	0	0	0
Fire Emergency	Return (FER)	Upon activation of a key switch or a building's fire sensors, 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	0
Firefighters' Em FE)	ergency Operation	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 operations.	0	0	0	0
Earthquake Eme EER-P/EER-S)	ergency Return	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	0
Supervisory Pan	el (WP)	Each elevator's status and operation can be remotely monitored and controlled through a panel installed in a building's supervisory room, etc.	0	© <sup>#1</sup>	0	© <sup>#</sup>
	itors & Escalators Control System	Each elevator's status and operation can be monitored and controlled using an advanced Web-based 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	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.)	0	0	0	0
DOOR OPER	TION FEATURES					
Door Sensor Sel (DODA)	f-diagnosis	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	S
Automatic Door DSAC)	Speed Control	Door load on each floor, which can depend on the type of hall door, is monitored to adjust the door speed, thereby making the door speed consistent throughout all floors.	S	S	S	S
Automatic Door Adjustment (DC		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
Reopen with Ha	ll Button (ROHB)	Closing doors can be reopened by pressing the hall button corresponding to the traveling direction of the car.	S	S	S	S
Repeated Door-	close (RDC)	Should an obstacle prevent the doors from closing, the doors will repeatedly open and close until the obstacle is cleared from the doorway.	S	S	S	S
Door Nudging F — With Buzzer (		A buzzer sounds and the doors slowly close when they have remained open for longer than the preset period. With AAN-B or AAN-G, a beep and voice guidance sound instead of the buzzer.	S	S	S	S
Door Load Dete	ctor (DLD)	When excessive door load has been detected while opening or closing, the doors immediately reverse.	S	S	S	S
Safety Ray (SR)	1-Beam	One or two infrared-light beams cover the full width of the doors as they close to detect	S	S	S	S
	2-Beam	passengers or objects. (Cannot be combined with the multi-beam door sensor or MBSS feature.)	0	0	0	0
Extended Door- DKO-TB)	open Button	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	0	—
Safety Door Edge (SDE)	One side	Sensitive door edge(s) detect passengers or objects during door closing.	0	0	0	0
	Both sides (Cannot be combined with the MBSS feature.) (CO doors only)		0	0	0	0
Electronic Door	man (EDM)	Door open time is minimized using safety ray(s) or multi-beam door sensors that detect passengers boarding or exiting.	0	0	0	0
Multi-beam Doo	or Sensor	Multiple infrared-light beams cover a door height of approximately 1800mm to detect passengers or objects as the doors close. (Cannot be combined with the SR or MBSS feature.) Please refer to page 13.	0	0	0	0
Multi-beam Door Sensor — Signal Type (MBSS)					Ø	0
Hall Motion Sen	sor (HMS)	Infrared-light is used to scan a 3D area near the open doors to detect passengers or objects. Please refer to page 13.	0	0	0	0

Notes: • 1C-2BC (1-car selective collective) - Standard, 2C-2BC (2-car group control system) - Optional, XAI-22 (3- and 4-car group control system) - Optional, ΣAI-2200C (3- to 8-car group control system) - Optional

• (S) = Standard (O) = Optional - = 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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# Features (2/2)

Feature	Description	1C- 2BC	2C- 2BC	3C to 4C ΣAI-22	3C to 8 ΣΑΙ-2200
OPERATIONAL AND SERVICE	FEATURES				
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	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 will open.	S	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	S
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	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	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	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. Please refer to page 8.	S	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. Please refer to page 8.	S	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	S
ndependent 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	S
Automatic Bypass (ABP)	A fully-loaded car bypasses hall calls in order to maintain maximum operational efficiency.	0	S	S	S
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	0	S
False Call Canceling — Car Button Type (FCC-P)	If the wrong car button is pressed, it can be canceled by quickly pressing the same button again twice.	0	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	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	0
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	0
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	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.	0	© <sup>#1</sup>	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	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	0
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	0
Regenerative Converter (PCNV)	For energy conservation, power regenerated by a traction machine can be used by other electrical systems in the building. Please refer to page 8.	0	0	0	0
GROUP CONTROL FEATURES					
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. Please refer to page 8.	_	_	0	S
Destination Oriented Prediction System (DOAS-S)	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 their waiting and traveling time. (Cannot be combined with some features. Please consult our local agents for details.) Please refer to page 11.	_	_		©
Intense Up Peak (IUP)	To maximize transport efficiency, an elevator bank is divided into two groups of cars to serve upper and lower floors separately during up peak. In addition, the number of cars to be allocated, the timing of car allocation to the lobby floor, the timing of door closing, etc. are controlled based on predicted traffic data.	-	_	_	0
		-			

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

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

office starting time, hotel check-in time, etc., and minimize passenger waiting time.

time, etc. to minimize passenger waiting time.

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Featu	re	Description	1C- 2BC	2C- 2BC	3C to 4C ΣAI-22	3C to 8 ΣΑΙ-220
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	0
Main Floor Parking	(MFP)	An available car always parks on the main (lobby) floor with the doors open/closed (China only).	0	0	0	0
Special Floor Priorit	y 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.)	_	_	© <sup>#1</sup>	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.)			© <sup>#1</sup>	0
Light-load Car Prio (UCPS)	rity Service	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.)	_	_	© <sup>#1</sup>	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.)	_	_	© <sup>#1</sup>	0
Congested-floor Se	ervice (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
Bank-separation O	peration (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.	_	© <sup>#1</sup>	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 will then respond only to car calls.	_	© <sup>#1</sup>	0	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 Change (TFS)	over Operation	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	0
SIGNAL AND DI	SPLAY FEATUR	ES				
Flashing Hall Lante	rn (FHL)	A hall lantern, which corresponds to a car's service direction, flashes to indicate that the car will soon arrive.	0	0	0	S
Basic Announceme	nt (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. (Voice only available in English.)	0	0	0	S
Car Arrival Chime	Car (AECC)	Electronic chimes sound to indicate that a car will soon arrive. (The chimes are mounted	0	0	0	
	Hall (AECH)	either on the top and bottom of the car, or in each hall.)	0	0	0	S
Sonic Car Button — (ACB)	- Click Type	A click-type car button which emits electronic beep sounds when pressed to indicate that the call has been registered.	0	0	0	0
Immediate Predicti (AIL)	on Indication	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
Second Car Predict	ion (TCP)	When a hall is crowded to the extent that one car cannot accommodate all waiting passengers, the hall lantern will light up to indicate the next car to serve the hall.	_	_		0
Voice Guidance Sys	tem (AAN-G)	Information on elevator service such as the current floor or service direction is given to the passengers inside a car. (Voice guidance only available in English.)	0	0	0	0
Auxiliary Car Operat	ing Panel (ACS)	An additional car control panel which can be installed for large-capacity elevators, heavy-traffic elevators, etc.	0	0	0	0
Inter-communication	on System (ITP)	A system which allows communication between passengers inside a car and the building personnel.	0	0	0	0
Car LCD Position In	dicator (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	0
Hall LCD Position Ir	idicator (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	
Car Information Dis	play (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.	0	0	0	0
						<u></u>

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

Up Peak Service (UPS)

# **Basic Specifications**

#### **Horizontal Dimensions**

	Mitsubishi Electric Standard												
Code number	Number of persons	Rated capacity (kg)	Rated speed (m/sec)	Door type	Entrance width (mm) JJ	Car internal dimensions (mm) AA×BB	Counter- weight position	Minimum hoistway dimensions (mm) AH×BH/car	Minimum machine room dimensions (mm) AM×BM/car				
P6	6	450	1.0			1400×850	Rear	1750×1400	1850×2700				
10	0	450	1.0			1400×000	Side	2100×1200	2100×1900				
P8	8	550					1400×1030	Rear	1750×1590	1850×2900			
10	0	550	1.0			1400/1000	Side	2100×1380	2100×2000				
P9	9	600	1.5		800	1400×1100	Rear	1750×1660	1850×2950				
15		000	1.75	- co	0000	1400/1100	Side	2100×1450	2100×2050				
P10	10	700	1.75			1400×1250	Rear	1750×1810	1850×3100				
110	10	700			- со		1400/1250	Side	2100×1600	2100×2050			
P11	11	750								1400×1350	Rear	1750×1910	1850×3200
1 1 1		/30								L		1400×1550	Side
P13	13	900					1600×1350	Rear	2000×1910	2000×1950			
115	15	500				900	1000×1550	Side	2400×1730	2400×2150			
						300	1600×1500	Rear	2000×2060	2000×2100			
										1000/1500	Side	2400×1880	2400×2200
P15	15	1000			1000	1800×1300	Rear	2200×1860	2200×1900				
			1.0		1000		Side	2600×1680	2600×2100				
			1.5	25	900	1100×2100	Side	1850×2530	1850×2530				
			1.75		1000	1800×1500	Rear	2200×2110	2200×2150				
P17	17	1150	2.0		1000	1000X1300	Side	2600×1880	2600×2200				
PT/	17	1150	2.0		1100	2000×1350	Rear	2400×1960	2400×2000				
			2.5		1100	2000×1350	Side	2800×1730	2800×2150				
			]	0	1000	1800×1700	Rear	2200×2310	2200×2350				
020	20	1250			1000	1800×1700	Side	2600×2080	2600×2300				
P20	20	1350				2000-1550	Rear	2400×2160	2400×2200				
					1100	2000×1550	Side	2800×1930	2800×2300				
			1		1100	0400.4700	Rear	2500×2250	2500×2250				
P24	24	1600				2100×1600	Side	2880×1980	2880×1980				
				25	1200	1400×2400	Side	2180×2830	2180×2830				

[Terms of the table]

• The contents of this table are applied to standard specifications only. Please consult our local agents for other specifications.

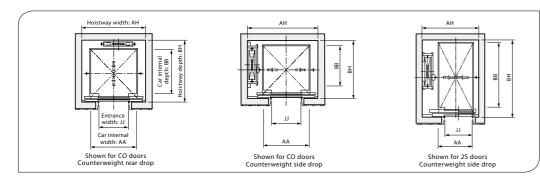
• Rated capacity is calculated as 65kg per person, as required by the Building Standard Law of Japan, 2009.

• CO: 2-panel center opening doors, 25: 2-panel side sliding doors.

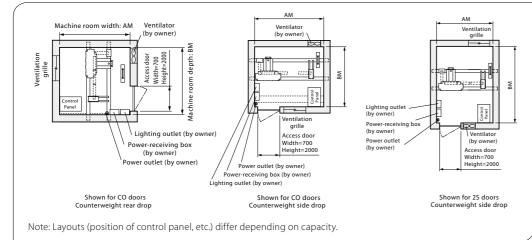
• Minimum hoistway dimensions (AH and BH) shown in the table are after waterproofing of the pit and do not include plumb tolerance.

• This table shows the specifications without the fireproof landing door and counterweight safety.

#### **Hoistway Plan**



#### **Machine Room Plan Example**



#### **Vertical Dimensions**

	Mitsubishi Electric Standard												
Rated speed	Rated capacity (kg)	Maximum travel (m)	Maximum number of		i overhead im) )H	Minimum pit depth (mm) PD		Minimum machine room clear height	Minimum floor to floor height				
(m/sec)		TR	stops	TR≦80	80 <tr≤120< td=""><td>TR≤90</td><td>90<tr< td=""><td>(mm) HM</td><td colspan="2">(mm)</td></tr<></td></tr≤120<>	TR≤90	90 <tr< td=""><td>(mm) HM</td><td colspan="2">(mm)</td></tr<>	(mm) HM	(mm)				
1.0	450≦Capacity≦1600	60		4400		13	60						
1.5	550≦Capacity≦1600	90	30	4	560	14	10						
1.75	550≧Capacity≧1000	90		4630		1410							
2.0	750≦Capacity≦1350	120 *1	36	4720	4820	1550	1650	2200	2500 *2				
	1350 <capacity≦1600< td=""><td>90</td><td>30</td><td>1</td><td></td><td></td><td></td><td rowspan="2"></td><td></td></capacity≦1600<>	90	30	1									
2.5	750≦Capacity≦1350	120 *1	36	4950	5050	1900	900 2000						
	1350 <capacity≦1600< td=""><td>90</td><td>30</td><td></td><td></td><td></td><td></td><td></td><td colspan="2"></td></capacity≦1600<>	90	30										

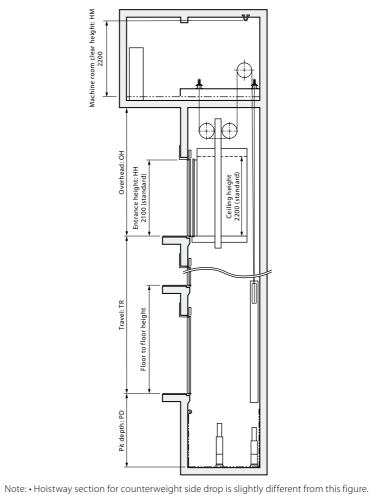
[Terms of the table]

• The contents of this table are applied only to standard specifications without counterweight safety. Please consult our local agents for other specifications. [Note]

\*1 Maximum travel is 90m when the counterweight is installed in a side drop position.

\*2 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.

#### Elevation



· Layout (position of control panel, etc.) differs depending on capacity.

#### **Applicable Standards**

NEXIEZ-MR complies with Mitsubishi Electric standard\*. For details of compliance, please consult our local agents.

\* Based on, but not fully complying with the Building Standard Law of Japan, 2009.



# **Basic Specifications**



#### **Horizontal Dimensions**

	EN81-1													
Code number	Number of persons	Rated capacity (kg)	Rated speed (m/sec)	Door type	Entrance width (mm) JJ	Car internal dimensions (mm) AA×BB	Counter- weight position	Minimum hoistway dimensions (mm) AH×BH/car	Minimum machine room dimensions (mm) AM×BM/car					
P11	11	825				1400×1350	Rear	1950×1930	1970×1930					
ГП	11	025		60	CO		1400×1330	Side	2210×1700	2210×1900				
			1.0		900	900 1600×1400	Rear	2000×1980	2000×1980					
P14	14	1050	1.0				Side	2410×1740	2410×1910					
			1.75	25		1100×2100	Side	1910×2510	1910×2510					
			2000-1400	Rear	2400×2030	2400×2030								
P17	17	1275	2.0	СО		2000×1400	Side	2820×1740	2820×1940					
			2.5	25	1100	1200×2300	Side	2020×2680	2020×2680					
D10	10	1250		со	]	2000, 1500	Rear	2400×2130	2400×2130					
P18	18	1350				2000×1500	Side	2820×1840	2820×1990					

[Terms of the table]

• The contents of this table are applied to standard specifications only. Please consult our local agents for other specifications.

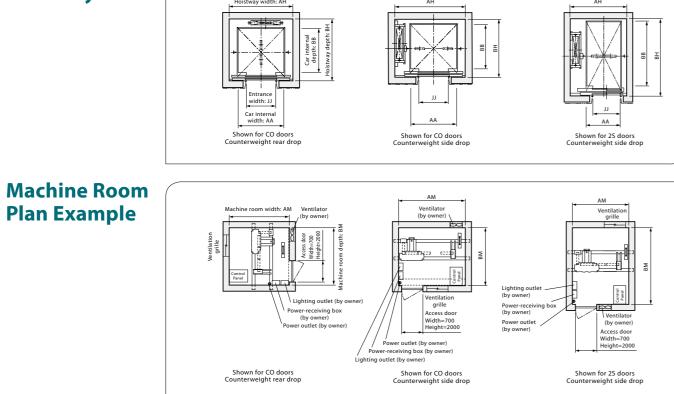
• Rated capacity is calculated as 75kg per person, as required by EN81-1.

• 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.

• This table shows the specifications without the fireproof landing door and counterweight safety.

#### **Hoistway Plan**



#### **Vertical Dimensions**

EN81-1											
Rated speed (m/sec)	Rated capacity (kg)	Maximum travel (m) TR	Maximum number of stops	Minimum overhead (mm) OH		Minimum pit depth (mm) PD		Minimum machine room clear height	Minimum floor to floor height		
				TR≦90	90 <tr≤120< td=""><td>Code number P11 and P14</td><td>Code number P17 and P18</td><td>(mm) HM</td><td>(mm)</td></tr≤120<>	Code number P11 and P14	Code number P17 and P18	(mm) HM	(mm)		
1.0		60		44	400	1360	1520				
1.6	825≦Capacity≦1350	90	30	4560		1410	1560				
1.75		90		4630		1430	1590				
2.0	825≦Capacity≦1050	90	30	4720	4820	1550	1650	2250	2500 *2		
	1050 <capacity≦1350< td=""><td>120 *1</td><td>36</td><td>4720</td></capacity≦1350<>	120 *1	36	4720							
2.5	825≦Capacity≦1050	90	30	4950	5050	1000	) 1900				
	1050 <capacity≦1350< td=""><td>120 *1</td><td>36</td><td>4950</td><td>5050</td><td>1900</td></capacity≦1350<>	120 *1	36	4950	5050	1900					

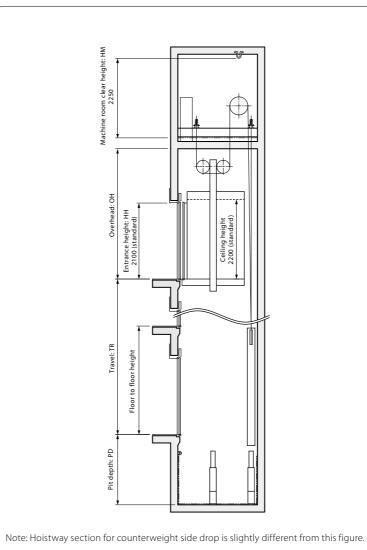
[Terms of the table]

• The contents of this table are applied only to standard specifications without counterweight safety. Please consult our local agents for other specifications. [Note]

\*1 Maximum travel is 90m when the counterweight is installed in a side drop position.

\*2 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.

#### **Elevation**



**Applicable Standards** 

NEXIEZ-MR complies with EN81-1.

# **Basic Specifications**



#### **Horizontal Dimensions**

GB7588										
Code number	Number of persons	Rated capacity (kg)	Rated speed (m/sec)	Door type	Entrance width (mm) JJ	Car internal dimensions (mm) AA×BB	Counter- weight position	Minimum hoistway dimensions (mm) AH×BH/car	Minimum machine room dimensions (mm) AM×BM/car	
P10	10	750				1400×1300	Rear	1950×1880	1970×1880	
110	10	/30	1.0 1.6 1.75 2.0 2.5	CO	900 -	1400/1500	Side	2190×1680	2190×1900	
P11	11	825				1400×1350	Rear	1950×1930	1970×1930	
							Side	2210×1700	2210×1900	
P12	12	900				1600×1330	Rear	2000×1910	2000×1910	
112	12						Side	2410×1690	2410×1900	
	14	1050				1600×1400	Rear	2000×1980	2000×1980	
							Side	2410×1740	2410×1910	
					1000	1800×1350	Rear	2200×1930	2200×1930	
P14							Side	2610×1700	2610×1900	
					900	1600×1500	Rear	2000×2080	2000×2080	
							Side	2410×1840	2410×1960	
				25		1100×2100	Side	1910×2510	1910×2510	
	16	1200		со	1000	1800×1500	Rear	2200×2130	2200×2130	
P16							Side	2620×1840	2620×1990	
FIO					1100	2000×1350	Rear	2400×1980	2400×1980	
							Side	2820×1700	2820×1930	
	17	1275				2000×1400	Rear	2400×2030	2400×2030	
P17							Side	2820×1740	2820×1940	
				25		1200×2300	Side	2020×2680	2020×2680	
		1350		со		2000×1500	Rear	2400×2130	2400×2130	
P18	18					2000/1500	Side	2820×1840	2820×1990	
218	18				1000	1800×1680	Rear	2200×2310	2200×2310	
							Side	2620×2020	2620×2080	

[Terms of the table]

• The contents of this table are applied to standard specifications only. Please consult our local agents for other specifications.

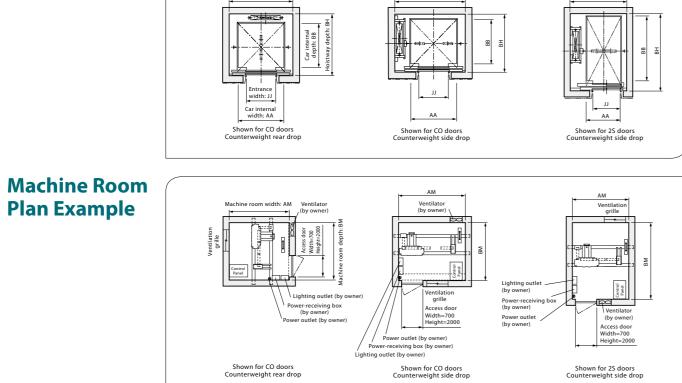
• Rated capacity is calculated as 75kg per person, as required by GB7588.

• 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.

• This table shows the specifications without the fireproof landing door and counterweight safety.

#### **Hoistway Plan**



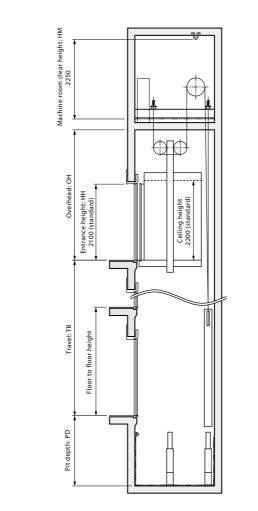
#### **Vertical Dimensions**

GB7588											
Rated speed (m/sec)	Rated capacity (kg)	Maximum travel (m) TR	Maximum number of stops	Minimum overhead (mm) OH		Minimum pit depth (mm) PD		Minimum machine room clear height	Minimum floor to floor height		
				TR≦90	90 <tr≤120< td=""><td>Code number P10-P12 and P14</td><td>Code number P16-P18</td><td>(mm) HM</td><td>(mm)</td></tr≤120<>	Code number P10-P12 and P14	Code number P16-P18	(mm) HM	(mm)		
1.0		60		44	100	1360	1520				
1.6	750≦Capacity≦1350	90	30	4560		1410	1560				
1.75		90		4630		1430	1590				
2.0	750≦Capacity≦1050	90	30	4720	4820	1550	1650	2250	2500 *2		
2.0	1050 <capacity≦1350< td=""><td>120 *1</td><td>36</td><td>4720</td></capacity≦1350<>	120 *1	36	4720							
2.5	750≦Capacity≦1050	90	30	4950	5050	1900	1900				
	1050 <capacity≦1350< td=""><td>120 *1</td><td>36</td><td>4950</td></capacity≦1350<>	120 *1	36	4950							

[Terms of the table] • The contents of this table are applied only to standard specifications without counterweight safety. Please consult our local agents for other specifications. [Note]

\*1 Maximum travel is 90m when the counterweight is installed in a side drop position.
\*2 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.

#### **Elevation**



Note: Hoistway section for counterweight side drop is slightly different from this figure.

Applicable Standards NEXIEZ-MR complies with GB7588.

# **Important Information on Elevator Planning**

#### **Work Not Included in Elevator Contract**

The following items are excluded from Mitsubishi Electric's elevator installation work, and are therefore the responsibility of the building owner or general contractor:

- Construction of the elevator machine room with proper beams and slabs, equipped with a lock, complete with illumination, ventilation and waterproofing.
- Access to the elevator machine room sufficient to allow passage of the control panel and traction machine.
- Architectural finishing of the machine room floor, and the walls and floors in the vicinity of the entrance hall after installation has been completed.
- Construction of an illuminated, ventilated and waterproofed elevator hoistway.
- A ladder to the elevator pit.
- The provision of cutting the necessary openings and joists.
- Separate beams, when the hoistway dimensions markedly exceed the specifications, and intermediate beams when two or more elevators are installed.
- All other work related to building construction.
- The machine room power-receiving panel and the electrical wiring for illumination, plus the electrical wiring from the electrical room to the power-receiving panel.
- 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, etc.
- 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.

\* Work responsibilities in installation and construction shall be determined according to local laws. Please consult our local agents for details.

#### **Elevator Site Requirements**

- The temperature of the machine room and 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 machine room and elevator hoistway.
- c. The machine room and 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.



Mitsubishi Elevator Asia Co., Ltd. has acquired ISO 9001 certification by the International Standards Organization (ISO) based on a review of quality management. The company has also acquired environmental management system standard ISO 14001 certification.



for a greener tomorrow

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

Visit our website at: http://www.mitsubishielectric.com/elevator/

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

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