PASSENGER ELEVATORS
(HIGH-SPEED STANDARD-TYPE)

NexWay-S
Package R
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.

Principle

Mitsubishi Electric elevators, escalators and building management systems are always evolving, helping achieve our goal of being the No.1 brand in space. In order to satisfy customers in all aspects of comfort, efficiency, safety, while making a sustainable society, quality must be of the highest level in all products and business activities, while priority is placed on coordination for the environment.

As the times change, Mitsubishi Electric promises to utilize the collective strength of its advanced and Fourier analyzing techniques to offer customers safe and reliable products while contributing to society.

High-rise residential buildings are increasing rapidly in emerging nations where high speed elevators are expected. Swiftly responding to the trend of the times, Mitsubishi Electric has concentrated its technologies to develop a new elevator using the most compact devices possible while drawing on the capabilities of the conventional NexWay-S! This includes keeping the footprint of the machine room housing these devices to a bare minimum!

Smaller machine room

Minimizing increase in machine room size from the conventional NexWay-S—Requiring less machine room space than the custom-type high-speed elevator NexWay.

Contents

- Efficiency / Ecology / Safety: 3–4
- Car Design: 5–6
- Car Operating Panels: 7–8
- Interior: 9
- Entrance Design: 10
- Hall Fixtures: 11–12
- Basic Specifications: 13–14
- Features: 15–17
- Important Information on Elevator Planning: 18
**Group Control Systems: ΣAI-22 and ΣAI-2200C**

ΣAI-22 and ΣAI-2200C control multiple elevators optimally according to the building size.

- **Cooperative Optimization Assignment (ΣAI-2200C)**
  - Forecasts a near-future hall call to reduce long waits
  - When a hall call is registered, the algorithm predicts 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.

- **Destination Oriented Allocation System: DOAS (Optional for ΣAI-2200C)**
  - Allocates passengers to cars depending on destination floors
  - 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 already registered, the passenger does not need to press a button in the car.
  - Long-wait rate (60 seconds or longer) 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.

- **Performance**
  - Average waiting time
  - Long-wait rate (60 seconds or longer)

- **ζ**
  - Improved: Max. 40%
  - Improved: Max. 80%

**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**

- **Motor**
  - Induction Motor
  - VVVF*1 control
  - ACV*2 control

- **Power consumption / CO2 emissions**
  - 100%
  - 32%
  - 37%
  - 74%
  - 93%
  - 100%

- **Notes**
  - *1: Alternative current, variable voltage
  - *2: Variable voltage, variable frequency
  - *3: CO2 emissions in this table are from elevator operation and do not include emissions from manufacturing, transportation and other processes.

**The ΣAI-2200C system (optional) is equipped with energy-efficient elevators and devices.**

**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.

**Milestones of Energy-saving Technologies in Elevator Development**

- **Milestone 3**
  - VVVF*1 control (1970)
  - ACV*2 control (1980)
  - Induction Motor (1990)
  - Worm geared (2000)

**Emergency Situations**

- **Emergency Operations**
  - Enhance safety by adding emergency-operation features which quickly respond to a power failure, fire or earthquake. (Please refer to page 15 for details.)

**Power failure**

- **Mitsubishi Emergency Landing Device: MELD (Optional)**
  - Upon power failure, the 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 cars use the building’s emergency power supply to move to a specified floor and open the doors for passengers to evacuate. After all cars have arrived, the predetermined cars will resume normal operation.

**Fire**

- **Fire Emergency Return: FER (Optional)**
  - When a fire switch or the building’s fire sensor is activated, all cars immediately return to a specified floor and open the doors to facilitate the safe evacuation of passengers.

**Firefighters’ Emergency Operation: FE (Optional)**

- When the fire operation switch is activated, all cars immediately return to the nearest floor and park there with the doors open 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.
Car Design

**Flooring**

<table>
<thead>
<tr>
<th>Materials and finishes</th>
<th>Durable vinyl tiles</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PR803 Grey</td>
</tr>
<tr>
<td></td>
<td>PR802 Dark-gray</td>
</tr>
<tr>
<td></td>
<td>PR811 Cream-beige</td>
</tr>
<tr>
<td></td>
<td>PR810 Other</td>
</tr>
</tbody>
</table>

**Ceiling**

<table>
<thead>
<tr>
<th>S00 Series</th>
<th>L210 Series</th>
<th>L400 Series</th>
<th>N300 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>L210S: Hairline stainless-steel</td>
<td>L400S: Hairline stainless-steel</td>
<td>N300S: Hairline stainless-steel</td>
<td></td>
</tr>
</tbody>
</table>

**Materials and finishes**

- Painted steel sheet
  - Y033 White
  - Y033 Light beige
  - Y033 Dark gray
- Stainless-steel Hairline

**Walls, transom panel and doors**

**Materials**

- Stainless-steel
- Painted steel sheet
- Mirror stainless-steel
- Shiny vibration stainless-steel
- Colored hairline stainless-steel
- Hairline etched stainless-steel *1
- Colored hairline etched stainless-steel *2
- Glass windows [1300(H) × 200(W) / 1300(H) × 300(W)] *3
- See-through doors *3

**Finishes and colors**

- Neutral Colors
  - Y033 White
  - Y084 Beige
  - Y071 Neutral beige
  - Y069 Dark brown
  - Y065 Dark gray

- Cool Colors
  - Y117 Lime green
  - Y118 Light green
  - Y119 Cream orange
  - Y164 Red violet

- Warm Colors

**Application**

<table>
<thead>
<tr>
<th>Materials and finishes</th>
<th>Y033</th>
<th>Y084</th>
<th>Y071</th>
<th>Y069</th>
<th>Y065</th>
<th>Y117</th>
<th>Y118</th>
<th>Y119</th>
<th>Y164</th>
</tr>
</thead>
<tbody>
<tr>
<td>Painted steel sheet</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**

- *1: Etching pattern EPA-1~6 only.
- *2: Etching pattern EPA-1~3 only.
- *3: Please consult our local agents for the production terms, etc.
- *4: Only available in dark gray.

---

**Materials and finishes**

- Painted steel sheet
  - Standard
  - Optional
- Mirror stainless-steel
  - Standard
  - Optional
- Shiny vibration stainless-steel
  - Optional
- Colored hairline stainless-steel
  - Optional
- Hairline etched stainless-steel
  - Optional

**Colors:**

- Neutral Colors
  - Y002 Dark brown
  - Y004 Beige
- Cool Colors
  - Y014 Red-violet
  - Y016 Light brown
- Warm Colors
  - Y033 White

Actual colors may differ slightly from those shown.

Please refer to the Design Guide for details.
Car Operating Panels

For front return panel

Short panel (without service cabinet)

Long panel

Swing panel

For side wall

Full-height panel

Full-height panel

CBV

■

Dot Matrix

LED

LCD

5.7-inch

10.4- or 15-inch

Indicator

CBVF

Keypad button

Dia. 30mm

CBVF

■

-C760 (Main panel)

CBVF

■

-C766 (Auxiliary panel)

CBVF

■

-C770 (Main panel)

CBVF

■

-C776 (Auxiliary panel)

CBVF

■

-C780 (Main panel)

CBVF

■

-C786 (Auxiliary panel)

N/A

N/A

N/A

N/A

CBU

■

-C710 (Main panel)

CBU

■

-C716 (Auxiliary panel)

CBU

■

-C720 (Main panel)

CBU

■

-C726 (Auxiliary panel)

CBU

■

-C730 (Main panel)

CBU

■

-C736 (Auxiliary panel)

N/A

N/A

N/A

N/A

CBVF-C258

A

B

A

B

A

B

A

B

N/A

N/A

N/A

N/A

Notes:

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

*2: The symbol ■ is replaced with a number representing the button type and illumination color (e.g. CBV1, CBV2, CBV3).

*3: Please refer to button line-up on this page.

*4: Mirror stainless-steel faciaplates are also available (optional).

Please refer to the Design Guide for details.
**Mirrors**

- YZ-S2A: Half size
- YZ-S3A: 2-mirror set
- YZ-SSSN: Full height

**Handrails**

- YH-59S: (Hairline stainless steel)
- YH-59M: (Mirror stainless steel)
- YH-59G: (Mirror stainless steel)
- YH-57S: (Hairline stainless steel)

**Doors, transom panel and jamb**

**Jamb types**
- E-102: Narrow jamb
- E-202: Square jamb
- E-302: Splayed jamb
- E-212: Square jamb with transom panel
- E-312: Splayed jamb with transom panel

**Materials and finishes**

- **Stainless-steel**
  - Hairline
  - Mirror
  - Shiny vibration
  - Hairline with etched pattern
  - Non-etched surface
  - Etched surface
  - Please refer to the etching finish pattern book, EFA1, for details.
  - These etching patterns are not applicable to the jamb.
  - Please refer to the etching finish pattern book, EF4, for details.

- **Painted steel sheet**
  - Neutral Colors
  - Warm Colors
  - Cool Colors
  - Please refer to the etching finish pattern book, EF4, for details.

**Application**

- **Materials and finishes**
  - Hairline stainless steel: Standard
  - Mirror stainless steel: Optional
  - Shiny vibration stainless steel: Optional
  - Hairline etched stainless steel: Optional
  - Painted steel sheet: Optional
  - Full height: Optional
  - See-through doors: Optional
  - Extruded hard aluminum: Optional

- **Transom panel**
  - Standard

- **Doors**
  - Standard

- **SF**
  - Optional

**Note:**

- Please consult our local agents for the production terms, etc.
- Actual colors may differ slightly from those shown.
Hall Fixtures

Hall position indicators and buttons

These hall signal fixtures can be easily mounted on the wall surface without having to cut into the wall to embed the back box.

<table>
<thead>
<tr>
<th>With plastic case</th>
<th>Button line-up</th>
<th>Cross-section of boxless fixtures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Hall buttons

Segment LED indicators

- PIV-A1010N
- PIV-A1010B
- PIV-A1020N
- PIV-A1020B

Segment LED indicators with plastic case

- PIV-C710N
- PIV-C720N

LED indicators

- PIV-C766N
- PIV-C776N
- PIV-C730N
- PIV-C740N

Dot LED indicators

- PIV-C766N
- PIV-C776N
- PIV-C740N

Hall lanterns

- HLV-A21S
- HLV-A31S
- HLV-E65
- HLV-E66
- HLV-A16S
- HLH-A16S

Hall position indicator with lantern

- HLV-E71
- HLH-A31S
- PIE-B47

LED hall position indicators

- PIH-D417 (Dot LED indicator)
- PIH-D415 (Segment LED indicator)
- PIH-C117 (5.7-inch)
- PIH-C216 (10.4-inch)
- PIH-C226 (15-inch)

LED hall position indicators with lantern

- HLV-E71
- HLH-A31S
- PIE-B47

Cross-section of boxless fixtures

These hall signal fixtures can be easily mounted on the wall surface without having to cut into the wall to embed the back box.

Notes:

1. Some letters of the alphabet are not available. Please consult our local agents for details.
2. Dot LED indicators are available (optional). Please consult our local agents for details.
3. The symbol is replaced with a number representing illumination color (e.g., PIV1, PIV3, etc.). Please refer to Button line-up on this page for illumination colors.
4. Mirror stainless-steel faceplates are also available (optional).
5. Please consult our local agents for details.
6. These types are applicable to EN81-70 compliant elevators only in 1C-2BC where one car is controlled independently.
7. These types are not applicable to elevators complying with EN81-30.
8. Only elevator status messages are available.
### Basic Specifications

#### Horizontal Dimensions

##### 1-Door 1-Gate

<table>
<thead>
<tr>
<th>Code number</th>
<th>Number of persons</th>
<th>Rated capacity (kg)</th>
<th>Door Type</th>
<th>Counterweight position</th>
<th>Car internal dimensions (mm) AAxBB</th>
<th>Entrance width (mm) JJ</th>
<th>Minimum hoistway dimension (mm) AHxBH</th>
<th>Minimum Machine room dimension (mm) AMxBM</th>
</tr>
</thead>
<tbody>
<tr>
<td>P13</td>
<td>13</td>
<td>1000</td>
<td>CO</td>
<td>Rear</td>
<td>1600x1400</td>
<td>900</td>
<td>2100x2100</td>
<td>2100x2100</td>
</tr>
<tr>
<td>P14</td>
<td>14</td>
<td>1050</td>
<td>CO</td>
<td>Rear</td>
<td>1800x1500</td>
<td>1000</td>
<td>2300x2100</td>
<td>2310x3340</td>
</tr>
<tr>
<td>P16</td>
<td>16</td>
<td>1200</td>
<td>CO</td>
<td>25 Side</td>
<td>1100x2100</td>
<td>900</td>
<td>2100x2650</td>
<td>2110x3490</td>
</tr>
<tr>
<td>P17</td>
<td>17</td>
<td>1275</td>
<td>CO</td>
<td>Rear</td>
<td>2000x1300</td>
<td>1100</td>
<td>2500x2110</td>
<td>2530x3340</td>
</tr>
<tr>
<td>P18</td>
<td>18</td>
<td>1350</td>
<td>CO</td>
<td>Rear</td>
<td>2000x1500</td>
<td></td>
<td>2500x2650</td>
<td>2530x3490</td>
</tr>
</tbody>
</table>

##### 1-Door 2-Gate

<table>
<thead>
<tr>
<th>Code number</th>
<th>Number of persons</th>
<th>Rated capacity (kg)</th>
<th>Door Type</th>
<th>Counterweight position</th>
<th>Car internal dimensions (mm) AAxBB</th>
<th>Entrance width (mm) JJ</th>
<th>Minimum hoistway dimension (mm) AHxBH</th>
<th>Minimum Machine room dimension (mm) AMxBM</th>
</tr>
</thead>
<tbody>
<tr>
<td>P14</td>
<td>14</td>
<td>1050</td>
<td>25 Side</td>
<td></td>
<td>1100x2100</td>
<td>900</td>
<td>2100x2650</td>
<td>2110x3490</td>
</tr>
<tr>
<td>P17</td>
<td>17</td>
<td>1275</td>
<td>25 Side</td>
<td></td>
<td>1200x2300</td>
<td>1100</td>
<td>2060x2710</td>
<td>2070x3210</td>
</tr>
</tbody>
</table>

#### Vertical Dimensions

##### 1-Door 1-Gate & 1-Door 2-Gate

<table>
<thead>
<tr>
<th>Code number</th>
<th>Maximum travel (m) TE</th>
<th>Maximum number of drops</th>
<th>Rated speed (m/sec)</th>
<th>Minimum overhead (mm) CT</th>
<th>Minimum pit depth (mm) PD</th>
<th>Minimum machine room clear height (mm) HH</th>
<th>Minimum floor to floor height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P13</td>
<td>180</td>
<td>64</td>
<td>3.5</td>
<td>5610</td>
<td>1270</td>
<td>2500(1)</td>
<td>2600(2)</td>
</tr>
<tr>
<td>P14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Diagrams

- **Hoistway Plan**
  - Diagram showing the layout of the hoistway for 1-Door 1-Gate and 1-Door 2-Gate.
  - Diagram showing the layout of the machine room for 1-Door 1-Gate and 1-Door 2-Gate.

- **Hoistway Section**
  - Diagram showing the cross-section of the hoistway for 1-Door 1-Gate and 1-Door 2-Gate.
  - Diagram showing the cross-section of the machine room for 1-Door 1-Gate and 1-Door 2-Gate.

---

**Note:** Hoistway section for side-drop counterweight (1-door 1-gate & 2-gate) is slightly different from the figure.

Dimensional information shown here conforms to EN81-20/50 2014.
EMERGENCY OPERATIONS AND FEATURES

- **Operation by Emergency**
  - Mitsubishi Emergency Control System
  - Escalators Monitoring
  - Mitsubishi Elevators & MelEye Operation

- **Emergency Car Lighting System** — Building Management Automatic Car Call Canceling
- **Backup Operation for Attendant Service Car Light Shut Off** — Safety Ray
- **Safety Door Edge Reopen with Hall Button** — Multi-beam Door Sensor
- **Emergency Landing Device**
  - Operation by Emergency — Automatic/Manual

OPERATIONAL AND SERVICE FEATURES

- **Automatic Door Speed Control**
  - CCC
  - DLD

- **Door Load Detector**
  - When excessive door load has been detected while opening or closing, the doors are immediately reversed.

- **Door Nudging Feature — Door Self-diagnosis**
  - NDG

- **Electronic Door Open/Close Control**
  - DOK-TB

- **Hall Motion Sensor**
  - HSM

- **Multi-beam Door Sensor** — Infrared-light is used to scan a 3D area near the open doors to detect passengers or objects.

- **Reopen with Hall Button**
  - ROHB

- **Safety Edge Door**
  - SDN

- **Safety Ray**
  - SR

GROUP CONTROL FEATURES

- **Bank-separation Operation**
  - BSO

- **Closed-door Priority Service**
  - CMPS

- **Digestion-Proofing Control**
  - CSFL

- **Down Peak Service**
  - DPS

- **Elevator Call System with Smartphone**
  - ECS-P

- **Energy-saving Operation — Number of Cars**
  - ESO-N

- **Forced Floor Stop**
  - FFS

- **Intense Up Peak**
  - IP

OPERATIONAL AND SERVICE FEATURES (Continued from the previous page.)

- **Automatic Door Call System Interface**
  - EOSC

- **Car Light Shut-Off — Automatic**
  - CLO-A

- **Emergency Return**
  - BMS-GW

- **Emergency Car Lighting**
  - ECL

- **Fire Emergency Return**
  - PER

- **Firefighting Operation**
  - FE

- **Mitsubishi Elevators & Escalators Monitoring and Control System**
  - MELS

- **Car Button Type**
  - Non-service to Specific

- **Card Reader Type**
  - Non-service to Specific

- **Congested-floor Service**
  - HOS-T

- **Destination Oriented Operation**
  - HOL

- **Overload Holding Switch**
  - HOS-T

- **Operation of Group Control**
  - COS

- **Operation of Group Control**
  - FCS-P

- **Operation of Group Control**
  - LCS-C

- **Operation of Group Control**
  - RCS-C

- **Operation of Group Control**
  - RAC

- **Operation of Group Control**
  - SCB
**Features (2/2)**

### SIGNAL AND DISPLAY FEATURES

- **Special Car Priority Service**
  - Special cars, such as those serving elevators with basement service, are given higher priority to respond to hall calls. (Cannot be combined with hall position indicator.)

- **Main Floor Parking**
  - An available car always parks on the main (lobby) floor with the doors open.

- **Operation**
- **Main Floor Changeover Operation**
  - Special cars, such as those serving elevators with basement service, are given higher priority to respond to hall calls. (Cannot be combined with hall position indicator.)

- **Light-load Car Priority**
  - Cars are given higher priority to respond to hall calls. When a hall is crowded to the extent that one car cannot accommodate all waiting passengers, a car priority service is activated based on predicted data.

- **Voice Guidance System**
  - A click-type car button which emits electronic beep sounds when pressed to indicate that the car is responding to a hall call. (Cannot be combined with hall position indicator.)

- **Sonic Hall Button**
  - A click-type hall button which emits electronic beep sounds when pressed to indicate that the hall call has been registered.

- **Up Peak Service**
  - This 5.7-inch LCD for car operating 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.

- **Car Information Display**
  - A 10.4- or 15-inch LCD 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.

- **Hall Information Display**
  - A 15-inch LCD for elevator hoistway 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.

- **Hall LCD Position Indicator**
  - A 5.7-inch LCD for each elevator floor shows the date and time, car position, travel direction and elevator status messages.

- **Immediate Prediction Indication**
  - A system which allows communication between passengers inside a car and the building personnel.

- **Second Car Prediction**
  - A system which allows communication between passengers inside a car and the building personnel.

- **Intercom System**
  - A system which allows communication between passengers inside a car and the building personnel.

- **Voice Guidance System**
  - A system which allows communication between passengers inside a car and the building personnel.

**Important Information on Elevator Planning**

**Work Not Included in Elevator Contract**

The following items are not included from Mitsubishi Electric’s elevator installation work. Their conditions and other details are to be confirmed to the statement of local laws or Mitsubishi Electric elevator’s requirements on 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 hal after installation has been completed.
- Construction of an illuminated, ventilated and waterproofed hoistway.
- The provision of a ladder to the elevator pit (if applicable).
- The provision of openings and supporting members as required for equipment installation.
- The provision of separate beams when the hoistway dimensions markedly exceed the specifications, and intermediate beams and separator partitions when two or more elevators are installed.
- The provision of an emergency exit door, inspection door and pit access door, when required, and access to the doors.
- All other work related to building construction.
- The provision of the main power and power for illumination, and their electrical switch boxes in the machine room, and laying of the wiring from the electrical room.
- The provision of outlets and laying of the wiring in the machine room and 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 grousing 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 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 against sing and condensation occurring due to a rapid drop in the temperature shall be provided 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.
  d. 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.
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 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.