PASSENGER ELEVATORS
(HIGH-SPEED STANDARD-TYPE)

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.
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**

In order to satisfy customers in all aspects of comfort, efficiency and safety while making a sustainable society, quality must be of the highest level in all products and business activities, with priority in plant consideration for the environment.

As the times have changed, 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!

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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.

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

- 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.

- When a hall call is registered, the algorithm predicts near-future calls that could require long waits.

- Forecasts a near-future hall call to reduce long waits.

- Performance

- Average waiting time

- Long-wait rate (60 seconds or longer)

- Improved: Max. 40%

- Improved: Max. 80%

- Devices that Use Less Energy

- LED Lighting (Optional)

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

- Ceiling: L210S

- LED downlights (yellow-orange)

- Approximately 12.5 times longer

- Approximately 75% reduction

- 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

- Traction machine

- Motor drive

- Control circuit

- Power consumption / CO₂ emissions

- 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.

- Safety

- 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)

- Operation by Emergency Power Source — Automatic/Manual: OEPS (Optional)

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

- Fire

- Fire Emergency Return: FER (Optional)

- Firefighters’ Emergency Operation: FE (Optional)

- When the fire operation switch is activated, the car immediately returns to a predetermined floor. The car then responds to the doors for passengers to evacuate. After all cars have arrived, the predetermined cars will resume normal operation.

- 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.

- 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.
### Ceiling

<table>
<thead>
<tr>
<th>Series</th>
<th>L210 Series</th>
<th>L400 Series</th>
<th>N300 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>S00 Series</td>
<td>L210: Painted steel sheet (Color: Y033 only)</td>
<td>L400: Painted steel sheet</td>
<td>N300: Painted steel sheet</td>
</tr>
<tr>
<td>L210S</td>
<td>Hairline stainless-steel</td>
<td>Hairline stainless-steel</td>
<td>Hairline stainless-steel</td>
</tr>
</tbody>
</table>

### Materials and finishes

- Painted steel sheet
  - Y033 White
  - Y055 Dark gray
  - Y073 Light beige
- 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
- Aluminum
- Durable vinyl tiles (2mm thick)
- Extruded hard aluminum
- Stainless-steel

#### Finishes and colors

<table>
<thead>
<tr>
<th>Color</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pink</td>
<td>Y051</td>
</tr>
<tr>
<td>Pale yellow</td>
<td>Y054</td>
</tr>
<tr>
<td>Dark gray</td>
<td>Y055</td>
</tr>
<tr>
<td>Neutral beige</td>
<td>Y071</td>
</tr>
<tr>
<td>Blue</td>
<td>Y116</td>
</tr>
<tr>
<td>Dark brown</td>
<td>Y002</td>
</tr>
<tr>
<td>Beige</td>
<td>Y004</td>
</tr>
<tr>
<td>Green</td>
<td>Y006</td>
</tr>
<tr>
<td>Red-violet</td>
<td>Y014</td>
</tr>
<tr>
<td>Light brown</td>
<td>Y016</td>
</tr>
<tr>
<td>White</td>
<td>Y033</td>
</tr>
<tr>
<td>Light beige</td>
<td>Y073</td>
</tr>
</tbody>
</table>

* Actual colors may differ slightly from those shown.

### Application

<table>
<thead>
<tr>
<th>Materials and finishes</th>
<th>Wall</th>
<th>Ceiling panel</th>
<th>Door</th>
<th>Floor</th>
<th>Ceiling</th>
<th>Railing</th>
<th>Staircase</th>
<th>Sill</th>
</tr>
</thead>
<tbody>
<tr>
<td>Painted steel sheet</td>
<td>Standard</td>
<td>Standard</td>
<td>Optional</td>
<td>Standard</td>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mirror stainless-steel</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colored hairline stainless-steel</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colored hairline etched stainless-steel</td>
<td>Optional</td>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glass windows [1300(H) × 200(W) / 1300(H) × 300(W)]</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>See-through doors</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Please refer to the Design Guide for details.

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.

Actual colors may differ slightly from those shown.
### Car Operating Panels

#### For front return panel

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>Indicator</th>
<th>Segment LED*1</th>
<th>Dot Matrix LED</th>
<th>LCD 5.7-inch</th>
<th>LCD 104- or 15.7-inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBV</td>
<td>■</td>
<td>■-C710 (Main panel)</td>
<td>CBV</td>
<td>■-C716 (Auxiliary panel)</td>
<td>CBV</td>
<td>■-C720 (Main panel)</td>
</tr>
<tr>
<td>CBV</td>
<td>■</td>
<td>■-C730 (Main panel)</td>
<td>CBV</td>
<td>■-C736 (Auxiliary panel)</td>
<td>CBV</td>
<td>■-C740 (Main panel)</td>
</tr>
</tbody>
</table>

Notes:
*1: 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: Mirror stainless-steel faceplates are also available (optional).

Please refer to the Design Guide for details.

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#### For side wall

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>Indicator</th>
<th>Segment LED</th>
<th>Dot Matrix LED</th>
<th>LCD 5.7-inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBV</td>
<td>■</td>
<td>■-N710 (Main panel)</td>
<td>CBV</td>
<td>■-N716 (Auxiliary panel)</td>
<td>CBV</td>
</tr>
<tr>
<td>CBV</td>
<td>■</td>
<td>■-N730 (Main panel)</td>
<td>CBV</td>
<td>■-N736 (Auxiliary panel)</td>
<td>N/A</td>
</tr>
</tbody>
</table>

---

### Button line-up

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>Indicator</th>
<th>Segment LED</th>
<th>Dot Matrix LED</th>
<th>LCD 5.7-inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBVF</td>
<td>■</td>
<td>■-N228 (EN81-70)</td>
<td>CBVF</td>
<td>■-N229S (EN81-70)</td>
<td>CBVF</td>
</tr>
</tbody>
</table>

Notes:
*1: 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: Mirror stainless-steel faceplates are also available (optional).

Please refer to the Design Guide for details.

---

### Button arrangement

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>Indicator</th>
<th>Segment LED</th>
<th>Dot Matrix LED</th>
<th>LCD 5.7-inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBVF</td>
<td>■</td>
<td>■-N228 (EN81-70)</td>
<td>CBVF</td>
<td>■-N229S (EN81-70)</td>
<td>CBVF</td>
</tr>
</tbody>
</table>

Notes:
*1: 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: Mirror stainless-steel faceplates are also available (optional).

Please refer to the Design Guide for details.
Entrance Design

Materials and finishes

<table>
<thead>
<tr>
<th>Stainless-steel</th>
<th>Painted steel sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hairline</td>
<td>Y002 Dark brown</td>
</tr>
<tr>
<td>Mirror</td>
<td>Y004 Beige</td>
</tr>
<tr>
<td>Shiny vibration</td>
<td>Y005 Dark gray</td>
</tr>
<tr>
<td>Hairline with etched pattern</td>
<td>Y006 Neutral beige</td>
</tr>
<tr>
<td>Non-etched surface</td>
<td>Y008 Light brown</td>
</tr>
<tr>
<td>Etched surface</td>
<td>Y009 Blue</td>
</tr>
<tr>
<td>EP-D-004</td>
<td></td>
</tr>
</tbody>
</table>

Materials and finishes

<table>
<thead>
<tr>
<th>Jamb types</th>
<th>Jamb types</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-102 Narrow jamb</td>
<td>E-202 Square jamb</td>
</tr>
<tr>
<td>E-202 Square jamb</td>
<td>E-302 Splayed jamb</td>
</tr>
<tr>
<td>E-302 Splayed jamb</td>
<td>E-312 Splayed jamb</td>
</tr>
</tbody>
</table>

Application

<table>
<thead>
<tr>
<th>Materials and finishes</th>
<th>Jamb</th>
<th>Transom panel</th>
<th>Doors</th>
<th>SF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hairline stainless steel</td>
<td>Standard</td>
<td>Optional</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>Painted steel sheet</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td>Shiny vibration stainless steel</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td>Hairline etched stainless steel</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td>Metal stainless steel</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td>Hairline stainless steel</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td>Painted steel sheet</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td></td>
</tr>
</tbody>
</table>

Note: Actual colors may differ slightly from those shown.

*Please consult our local agents for the production terms, etc.*
**Hall Fixtures**

### Hall position indicators and buttons

<table>
<thead>
<tr>
<th>Boxless Cross-section of boxless fixtures</th>
</tr>
</thead>
<tbody>
<tr>
<td>These hall signal fixtures can be easily mounted on the wall surface without having to cut into the wall to embed the back box.</td>
</tr>
</tbody>
</table>

**Segment LED indicators**

<table>
<thead>
<tr>
<th>PIV</th>
<th>A1010N</th>
<th>PIV</th>
<th>A1010B</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIV</td>
<td>A1020N</td>
<td>PIV</td>
<td>A1020B</td>
</tr>
</tbody>
</table>

**Segment LED indicators with plastic case**

<table>
<thead>
<tr>
<th>PIV</th>
<th>C710N</th>
<th>PIV</th>
<th>C720N</th>
</tr>
</thead>
</table>

**LED indicators**

<table>
<thead>
<tr>
<th>PIV</th>
<th>C765N</th>
<th>PIV</th>
<th>C776N</th>
</tr>
</thead>
</table>

**Dot LED indicators**

<table>
<thead>
<tr>
<th>PIV</th>
<th>C730N</th>
<th>PIV</th>
<th>C740N</th>
</tr>
</thead>
</table>

### Hall buttons

**Button line-up**

- **With plastic case**
  - PIV: C765N
  - PIV: C776N

- **Flat**
  - PIV: C730N
  - PIV: C740N

- **Tactile**
  - PIV: C720

### Cross-section of boxless fixtures

- **Wiring hole**

### Hall lanterns

<table>
<thead>
<tr>
<th>Hall lanterns</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLV-A21S</td>
</tr>
<tr>
<td>HLV-A31S</td>
</tr>
<tr>
<td>HLV-E65</td>
</tr>
<tr>
<td>HLV-E66</td>
</tr>
<tr>
<td>HLV-A16S</td>
</tr>
<tr>
<td>HLH-A16S</td>
</tr>
<tr>
<td>PIE-B47</td>
</tr>
</tbody>
</table>

### LCD hall position indicator

- **PIV-C117**
  - (5.7-inch)

### LED hall position indicators

- **PIV-D415**
  - (Dot LED indicator)
- **PIV-D417**
  - (Segment LED indicator)

### LCD information displays at hall

- **PIV-C216**
  - (10.4-inch)
- **PIV-C226**
  - (15-inch)

**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 the button line-up on this page for illumination colors.
4. Mirror stainless-steel faceplates are also available (optional). Please consult our local agents for details.
5. These types are applicable to EN81-70 compliant elevators only in 1C-2BC where one car is controlled independently.
6. These types are not applicable to elevators complying with EN81-10.
7. Only elevator status messages are available.
Basic Specifications

Horizontal Dimensions

<table>
<thead>
<tr>
<th>Code number</th>
<th>Number of persons</th>
<th>Rated capacity (kg)</th>
<th>Door type</th>
<th>Counter-weight position</th>
<th>Car internal dimensions (mm) AAxBB</th>
<th>Entrance width (mm) JJ</th>
<th>Minimum hoistway dimensions (mm) AHxBH</th>
<th>Minimum Machine room dimensions (mm) AMxBM</th>
</tr>
</thead>
<tbody>
<tr>
<td>P13</td>
<td>16</td>
<td>1500</td>
<td>CO</td>
<td>Rear</td>
<td>1160x1400</td>
<td>900</td>
<td>2100x2150</td>
<td>2110x3490</td>
</tr>
<tr>
<td>P14</td>
<td>16</td>
<td>1500</td>
<td>CO</td>
<td>Rear</td>
<td>1160x1400</td>
<td>900</td>
<td>2100x2150</td>
<td>2110x3490</td>
</tr>
<tr>
<td>P15</td>
<td>16</td>
<td>1500</td>
<td>CO</td>
<td>Rear</td>
<td>1160x1400</td>
<td>900</td>
<td>2100x2150</td>
<td>2110x3490</td>
</tr>
<tr>
<td>P16</td>
<td>16</td>
<td>1500</td>
<td>CO</td>
<td>Rear</td>
<td>1160x1400</td>
<td>900</td>
<td>2100x2150</td>
<td>2110x3490</td>
</tr>
<tr>
<td>P17</td>
<td>16</td>
<td>1500</td>
<td>CO</td>
<td>Rear</td>
<td>1160x1400</td>
<td>900</td>
<td>2100x2150</td>
<td>2110x3490</td>
</tr>
<tr>
<td>P18</td>
<td>16</td>
<td>1500</td>
<td>CO</td>
<td>Rear</td>
<td>1160x1400</td>
<td>900</td>
<td>2100x2150</td>
<td>2110x3490</td>
</tr>
</tbody>
</table>

Vertical Dimensions

<table>
<thead>
<tr>
<th>Code number</th>
<th>Maximum travel (m) TR</th>
<th>Maximum number of stops</th>
<th>Rated speed (m/sec)</th>
<th>Minimum overhead (mm) G</th>
<th>Minimum pit depth (mm) FD</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>5130</td>
<td>3270</td>
<td>2500^1</td>
<td>2600^2</td>
</tr>
<tr>
<td>P14</td>
<td>180</td>
<td>64</td>
<td>4.0</td>
<td>6020</td>
<td>3540</td>
<td>2500^1</td>
<td>2600^2</td>
</tr>
<tr>
<td>P15</td>
<td>180</td>
<td>64</td>
<td>3.5</td>
<td>5130</td>
<td>3270</td>
<td>2500^1</td>
<td>2600^2</td>
</tr>
<tr>
<td>P16</td>
<td>180</td>
<td>64</td>
<td>4.0</td>
<td>6020</td>
<td>3540</td>
<td>2500^1</td>
<td>2600^2</td>
</tr>
</tbody>
</table>

Note: Dimensional information shown here conforms to EN81-20/50 2014.
DOOR OPERATION FEATURES

- **Door Load Detector**: DLD
  - When excessive door load has been detected by pressure when opening or closing, the doors will immediately reverse.

- **Door Nudging Feature**: DNF
  - When excessive door load has been detected by pressure when opening or closing, the doors will immediately reverse.

- **Door Sensor**: DOO
  - Each elevator's status and operation can be monitored and controlled on an advanced web-based application which can be accessed by authorized individuals.

- **Door Self-diagnosis**: DSD
  - This self-diagnosis function gives an alert when rope replacement timing has approached.

- **Door Open Control**: DOC
  - Exclusive operation where a car is withdrawn from group control operation for independent group control operation to serve special needs or different floors.

- **Door Position Sensors**: DPS
  - To ensure the厅内 is empty before the doors close. The doors will open to the next landing if a passenger enters a destination floor at a low speed and the doors will open.

- **Door Release with Hall Button**: DROH
  - To ensure the car is withdrawn from group control operation for independent operation to serve special needs or different floors.

- **Door Open Delay**: DOD
  - In case of hall calls and traveling time.

- **Door Open Detector**: DOD
  - To ensure the car is withdrawn from group control operation for independent operation to serve special needs or different floors.

- **Door Open Detector**: DOD
  - To ensure the car is withdrawn from group control operation for independent operation to serve special needs or different floors.

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  - To ensure the car is withdrawn from group control operation for independent operation to serve special needs or different floors.

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  - To ensure the car is withdrawn from group control operation for independent operation to serve special needs or different floors.

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### GROUP CONTROL FEATURES (Continued from the previous page.)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Abbreviation</th>
<th>Description</th>
<th>3C to 2C</th>
<th>2C to 2BC</th>
<th>2 to 4C</th>
<th>4 to 6C</th>
<th>6 to 8C</th>
<th>8C to 10C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lunchtime Service</td>
<td>LTS</td>
<td>During the first half of lunchtime, calls for restaurants are served with higher priority, and during the latter half, the number of cars allocated to the restaurant floor, the allocation timing for such cars and the door opening and closing timing are all controlled based on predicted data.</td>
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<tr>
<td>Main Floor Changeover Service</td>
<td>TFS</td>
<td>The features effective for buildings with more than 100 floors. The floor designated as the &quot;main floor&quot; in a group control operation can be changed as necessary using a manual operation.</td>
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<tr>
<td>Main Floor Parking</td>
<td>MPP</td>
<td>Not available or always opens on the main lobby floor with the doors open.</td>
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<tr>
<td>Special Car Priority Service</td>
<td>SCP</td>
<td>Special cars, such as those in elevators and elevators with basement service, are given priority to respond to call in main floor.</td>
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<tr>
<td>Special Floor Priority Service</td>
<td>SPF</td>
<td>Special floors, such as those with VIP rooms or executive offices, are given priority for allocation when a call is made on these floors. (Available combined with special floor indicators.)</td>
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<tr>
<td>Up-Peak Service</td>
<td>UPS</td>
<td>During the first half of lunchtime, calls for the restaurant floor, the allocation timing for such cars and the door opening and closing timing are all controlled based on predicted data.</td>
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<tr>
<td>VIP Operation</td>
<td>VIP-S</td>
<td>A special car, in addition to the group control parameters, is selected for service. When activated, the car responds only to existing cars, calls, or calls in response to their own calls.</td>
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</table>

### SIGNAL AND DISPLAY FEATURES

#### Auxiliary Car Operating Panel
- AC: An additional car control panel which can be installed for large-capacity elevators, high-speed elevators, etc.

#### Basic Announcement
- EAN-B: A synthesized voice (and/or text display) alerting passengers inside a car that elevator operations have been temporarily interrupted by overloading or a similar cause. (Available in limited languages.)

#### Car Arrival Chime
- AEC (car)
- ACH (hall)
- TCP: When a passenger has registered a call and the elevator has arrived, an electronic chime sounds to indicate that the car will soon arrive. (The chime sounds after the car is stopped and the doors are about to open.)

#### Car Information Display
- CID: A 5.7-inch LCD for elevator cars shows the date and time, car position, travel direction and elevator status messages. In addition, customized images can be displayed in full-screen or partial-screen formats.

#### Car LCD Position Indicator
- CBD-S: A 5.7-inch LCD for operating panels shows the date and time, and can display travel direction and elevator status messages.

#### Hall Information Display
- HHD: A 5.6- or 5.7-inch LCD 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.

#### Hall LCD Position Indicator
- HHD-S: A 5.7-inch LCD 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.

#### Immediate Prediction Indication
- AIL: When a passenger has pressed a hall call, the corresponding hall lantern lights up and a chiming sound will sound once to indicate which doors will open.

#### Intercommunication System
- ITP: A system which allows communication between passengers inside a car and the building personnel.

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

#### Voice Guiding System
- AAN-G: A 5.7-inch LCD for elevator cars 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.

### 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 details or conditions are to be confirmed with the local laws or Mitsubishi Electric’s elevator requirements. The responsibility of the building owner or general contractor 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 walls and floors in the vicinity of the entire machine after installation has been completed.
- Construction of an illuminated, ventilated and waterproofed hoistway.
- The provision of a pit the elevator lift pit (if applicable).
- The provision of opening 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 elevator exit door, inspection door and access door, when required, and access to the doors.
- All other work related to building construction.
- The provision of 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 grounding in 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.
  - The relative humidity shall be below 90% on a monthly average and below 95% on a daily average.
  - Prevention against static and condensation occurring due to a rapid drop in the temperature shall be provided in the machine room and elevator hoistway.
  - The machine room and the elevator hoistway shall be finished with mortar or other materials etc. 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.
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.

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MITSUBISHI ELECTRIC CORPORATION
HEAD OFFICE: TOKYO BLDG. 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8910, JAPAN

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

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