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 artificial-intelligence 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.
Premium Elevators Custom-designed to Match Your Needs

Mitsubishi Electric high-speed elevators are designed to keep pace with the vertical growth of cities as buildings soar to ever greater heights. Our premium elevators guarantee high levels of passenger safety and comfort, and can be customized for diverse applications including office buildings, hotels and shopping centers. We can tailor specifications to meet your exact needs and add a distinctive touch that sets your building apart from the rest.
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.

We strive to be green in all of our business activities.

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

Contents

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Application

<table>
<thead>
<tr>
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<table>
<thead>
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<td>3.0</td>
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<tr>
<td>2.5</td>
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</tbody>
</table>
The amount of lateral vibration generated by high-speed elevator cars is tremendous. As a world’s first innovation in the industry, Mitsubishi Electric’s Active Roller Guide technology reduces this vibration by approximately 50%. It works via an accelerometer that detects car vibration during operation, along with actuators that cancel the vibration through a controlled electromagnetic force. Mitsubishi Electric Active Roller Guides ensure a more comfortable ride than elevators employing conventional roller guides.

Super High-rise Rope Mechanics

Mitsubishi Electric’s new sfleX-rope* comprising bundles of high-intensity steel wire strands, each covered with plastic, offers higher intensity than conventional rope for safe operation despite the greater weight of longer ropes. Each wire has a higher density and wider cross-sectional area than conventional rope, which helps to reduce rope stretching caused when passengers step into the elevator.

Application of the sfleX-rope* depends on travel, speed, etc. Please consult our local agents for details. The sfleX-rope* is a registered trademark of Mitsubishi Electric Corporation.

Active Roller Guide (Optional*)

The amount of lateral vibration generated by high-speed elevator cars is tremendous. As a world’s first innovation in the industry, Mitsubishi Electric’s Active Roller Guide technology reduces this vibration by approximately 50%. It works via an accelerometer that detects car vibration during operation, along with actuators that cancel the vibration through a controlled electromagnetic force. Mitsubishi Electric Active Roller Guides ensure a more comfortable ride than elevators employing conventional roller guides.

Traction Machine with PM Motor

The joint-lapped core built into the PM motor of the traction machine features flexible joints. The iron core acts like a hinge, which allows coils to be wound around the core more densely, resulting in improved motor efficiency and compactness. A high-density magnetic field is produced, enabling lower use of energy and resources and reduced CO2 emissions.

Super High-rise Rope Mechanics

Mitsubishi Electric’s new sfleX-rope* comprising bundles of high-intensity steel wire strands, each covered with plastic, offers higher intensity than conventional rope for safe operation despite the greater weight of longer ropes. Each wire has a higher density and wider cross-sectional area than conventional rope, which helps to reduce rope stretching caused when passengers step into the elevator.

Application of the sfleX-rope* depends on travel, speed, etc. Please consult our local agents for details. The sfleX-rope* is a registered trademark of Mitsubishi Electric Corporation.
**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.

<table>
<thead>
<tr>
<th></th>
<th>Ceiling: L210S</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Advantages of LEDs</strong></td>
<td></td>
</tr>
<tr>
<td>Service life (hr)</td>
<td>LED: 25,000</td>
</tr>
<tr>
<td></td>
<td>Incandescent lamp: 2,000</td>
</tr>
<tr>
<td></td>
<td>Approximately 12.5 times longer</td>
</tr>
<tr>
<td>Power consumption (W)</td>
<td>LED: 32.5</td>
</tr>
<tr>
<td></td>
<td>Incandescent lamp: 132.0</td>
</tr>
<tr>
<td></td>
<td>Approximately 75% reduction</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>1970</td>
<td>DC motor</td>
</tr>
<tr>
<td>1980</td>
<td>Induction motor</td>
</tr>
<tr>
<td>1990</td>
<td>Gearless</td>
</tr>
<tr>
<td>2000</td>
<td>Helical-gear</td>
</tr>
<tr>
<td>2010</td>
<td>Permanent magnet motor</td>
</tr>
</tbody>
</table>

*1: Variable Voltage, Variable frequency
*2: CO2 emissions in this table are from elevator operation and do not include emissions from manufacturing, transportation and other processes.

**Maximizing Operational Efficiency and Minimizing Energy Consumption**

**Energy-saving Operation — Allocation Control: ESO-W (ESAI-2200C only)**

This system selects the elevator in a group that best balances operational efficiency and energy consumption. Priority is given to operational efficiency during peak hours and energy efficiency during non-peak hours.

Through a maximum 10% reduction in energy consumption compared to our conventional system, this system allows building owners to cut energy costs without sacrificing passenger convenience.

**Using Energy Wisely**

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

**Ecology**

**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 33 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 key 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, the car immediately returns to a predetermined floor. The car then responds only to car calls, which facilitates firefighting and rescue operations.

**Earthquake**

Earthquake Emergency Return: EER-P/EER-S (Optional)

When a primary and/or secondary wave seismic sensor is activated, all cars stop at the nearest floor and park there with the doors open to facilitate the safe evacuation of passengers.

**For Safe Boarding**

**Door Safety Devices**

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

**Hall Motion Sensor: HMS (Optional)**

**Multi-beam Door Sensor (Optional)**
Allocating 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 minimizes waiting and traveling time.

Example of hall arrangement

Advantages of DOAS at Hall

Without DOAS

Passengers wait for cars wondering which car will arrive first. Once a car arrives, regardless of the destination, passengers rush to get into the car.

With DOAS

When passengers enter a destination floor at a hall, the hall operating panel indicates which elevator to take. As passengers proceed to the assigned elevator, the car is on its way and there is no hurry when the car arrives.
MelEye closely observes the operational status of elevators that handle continually changing passenger traffic. This allows building managers to rapidly respond to changing traffic patterns, thus optimizing the performance of elevators and maximizing the added value of the whole building. The application of the latest network technology has also greatly increased the number of controllable elevators, which minimizes the cost spent on facilities such as supervisory rooms and monitors.

MelEye is our solution to futuristic building traffic monitoring systems.

**Elevator Monitoring and Control System: MelEye (Optional)**

MelEye’s user-friendly screen shows the detailed operational status of the elevators in real time.

A computer allows remote control of special and emergency operations.

The past fault logs of the elevators and escalators are recorded in addition to the operation logs of the computer.

**Recording of logs**

**Remote control**

**Scheduling of special operations**

**Monitoring screens**

**Statistical information**

**Languages**

Standard elevator information, and date and time are available in English (US, UK or Singapore), Chinese, French, Japanese, Portuguese or Spanish.

**Colors**

Select the best color from our five popular and eye-catching background colors.
Ceiling Designs

**Customized-1**
Distinctive design using vaulted lighting and marble floor finish

- **Ceiling (Customized-1)** — Panel: Painted steel sheet [Y033: White]
  - Lighting: Central indirect lighting and downlights

- **Walls** — Colored (bronze) SUS-HE
- **Transom panel** — SUS-M
- **Doors** — Colored (bronze) SUS-HE
- **Front return panels** — SUS-M
- **Kickplate** — SUS-HL
- **Flooring** — Marble (supplied by customer)
- **Car operating panel** — CBV3-D750 (faceplate: SUS-M)
- **Handrails** — YH-59M
- **Mirrors** — YZ-55SN

**Car Design Example**

**Customized-2**
Indirect center lighting and downlights create a relaxing atmosphere

- **Ceiling (Customized-2)** — Panel: Painted steel sheet [Y033: White]
  - Lighting: Central indirect lighting and downlights

- **Walls** — Painted steel sheet
- **Transom panel** — Painted steel sheet
- **Doors** — Painted steel sheet
- **Front return panels** — SUS-HL
- **Kickplate** — SUS-HL
- **Flooring** — Marble (supplied by customer)
- **Car operating panel** — CBN4-C710
- **Handrails** — YH-59M
- **Mirror** — YZ-52A

*Actual colors may differ slightly from those shown. Please refer to page 20 for the explanations of SUS-HL, colored SUS-HE and SUS-M.*
Car Design Example

Ceiling (L210)       Panel: Painted steel sheet [Y033: White]
                      Lighting: Downlights (LEDs)
Walls               Pattern-printed steel sheet [CP111: Dark grain]
Transom panel      Pattern-printed steel sheet [CP111: Dark grain]
Doors              Pattern-printed steel sheet [CP101: Silver]
Front return panels SUS-HL
Kickplate          SUS-HL
Flooring           Durable vinyl tiles
Car operating panel CBV3-N730
Handrails         YH-59S

Optional Ceiling Design L210S
Panel: SUS-HL
Others: Same as L210.

Car Design Example

Ceiling (N300)       Panel: Painted steel sheet [Y033: White]
                      Lighting: Central indirect lighting and downlights
Walls               Colored (gold) SUS-HL
Transom panel      Colored (gold) SUS-HL
Doors              SUS-M
Front return panels SUS-M
Kickplate          Colored (gold) SUS-HL
Flooring           Rubber tile
                      (supplied by customer)
Car operating panel CBV1-C730 (faceplate: SUS-M)
Handrails         YH-59M

Optional Ceiling Design N300S
Panel: SUS-HL
Others: Same as N300.

Actual colors may differ slightly from those shown.
Please refer to page 20 for the explanations of SUS-HL, colored SUS-HL and SUS-M.
Ceiling Designs

**N130**  
Light transmitted through exotic ceiling patterns

**N120**  
Gorgeous ceiling with lustrous translucent panels fused using refined geometric patterns

---

**Car Design Example**

Ceiling (N130) Panel: Milky white resin panels  
Lighting: Full lighting

Walls  
Colored (bronze) SUS-HE (EPA-2)

Transom panel  
Colored (bronze) SUS-HE (EPA-2)

Doors  
Colored (bronze) SUS-HE (EPA-2)

Front return panels  
SUS-HL

Kickplate  
Colored (bronze) SUS-HL

Flooring  
Rubber tile (supplied by customer)

Car operating panel  
CBV1-N710 (faceplate: SUS-M)

Handrails  
YH-59M

Mirror  
Y2 S3A

---

**Car Design Example**

Ceiling (N120) Panels: [Center] Milky white resin panel  
[Sides] Resin panels with mirrored surface

Lighting: Central lighting and downlights

Walls  
SUS-HE (EPA-3)

Transom panel  
SUS-HE (EPA-3)

Doors  
SUS-HE (EPA-3)

Front return panels  
SUS-M

Kickplate  
SUS-HL

Flooring  
Rubber tile (supplied by customer)

Car operating panel  
CBV5-N710

Handrails  
YH-59M

---

**Materials/Finishes**

<table>
<thead>
<tr>
<th>Material/Finish</th>
<th>Wall</th>
<th>Transom panel</th>
<th>Door</th>
<th>Door return panels</th>
<th>Kickplate</th>
<th>Flooring</th>
<th>Side</th>
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<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
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</tr>
</tbody>
</table>

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**Note:**

- *1: Etching pattern EPA-1-6 only.
- *2: Etching pattern EPA-1-5 only.
- *3: Only available in dark gray.

Actual colors may differ slightly from those shown.
Notes:
*1: Segment LED indicators cannot display some letters of alphabet. Please consult our local agents for details.
*2: Please select a button type referring to page 27, and enter the number in the space shown as ■.
*3: Faceplates with stainless-steel, mirror-finish are also available (optional). Please consult our local agents for details.
*4: Maximum number of floors: 22 floors.
*5: The types in parentheses ( ) show auxiliary car operating panels (optional). The design is slightly different from the above images. Please consult our local agents for further information such as installation location.
*6: Please consult our local agents for the production terms, etc.

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

For side wall

Notes:
*1: Segment LED indicators cannot display some letters of alphabet. Please consult our local agents for details.
*2: Please select a button type referring to page 27, and enter the number in the space shown as ■.
*3: Faceplates with stainless-steel, mirror-finish are also available (optional). Please consult our local agents for details.
*4: The types in parentheses () show auxiliary car operating panels (optional). The design is slightly different from the above images. Please consult our local agents for further information such as installation location.
*5: Please consult our local agents for the production terms, etc.

Actual colors may differ slightly from those shown.
Hall Signal Fixtures

--- Hall position indicators and buttons ---

Segment LED indicator*1,2,6
With plastic case

PIV■A1010N PIV■A1010B
PIV■A1010A
PIV■A1010C
PIV■A1010D
PIV■A1020N PIV■A1020B
PIV■A1020A
PIV■A1020C
PIV■A1020D
PIV■C710N PIV■C710A
PIV■C710B
PIV■C710C
PIV■C710D
PIV■C720N PIV■C720C
PIV■C720E
PIV■C720F
PIV■C720H
PIV■C720A
PIV■C720B
PIV■C720C
PIV■C720D
PIV■C730N PIV■C730C
PIV■C730E
PIV■C730F
PIV■C730H
PIV■C730A
PIV■C730B
PIV■C730C
PIV■C730D
PIV■C740N PIV■C740C
PIV■C740E
PIV■C740F
PIV■C740H
PIV■C740A
PIV■C740B
PIV■C740C
PIV■C740D
PIV■C766N PIV■C766C
PIV■C766E
PIV■C766F
PIV■C766H
PIV■C766A
PIV■C766B
PIV■C766C
PIV■C766D
PIV■C766E
PIV■C766F
PIV■C766H

Segment LED indicator*5

--- Hall buttons ---

With plastic case

HBV■A1010N HBV■A1010A
HBV■A1010B HBV■A1010C
HBV■C710N HBV■C710A
HBV■C710B HBV■C710C
HBV■C710D HBV■C710E
HBV■C710F HBV■C710H
HBV■C710A HBV■C710B HBV■C710C HBV■C710D
SN■C10

--- No-entry indicators for EN81-73 ---

--- Hall lanterns ---

HLV-A21S HLV-A31S HLV-E65 Silver ornament HLV-E66 Silver ornament HLV-E71 HLV-A31S

--- Hall position indicators ---

HLV-A16S HLV-A16S

--- LCD position indicators ---

PIV■C766N PIV■C766C PIV■C766E PIV■C766F PIV■C766H
PIV■C766A PIV■C766B PIV■C766C PIV■C766D
PIV■C766E PIV■C766F PIV■C766H

--- LCD information displays ---

PIH■C117 (5.7-inch)

--- Hall position indicator with lantern ---

PIH■C216 (10.4-inch)

--- 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.

--- Wiring hole ---

Notes:

*1: Segment LED indicators cannot display some letters of alphabet. Please consult our local agents for details.

*2: Dot LED indicators are available (optional). Please consult our local agents for details.

*3: Please select a button type referring to page 27, and enter the number in the space shown as ■.

*4: Faceplates with stainless-steel, mirror-finish 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 EN81-70.
Buttons accented with LED halo illumination
Illuminated characters and halos attract user’s attention. Tactile and flat buttons (stainless-steel with non-directional hairline-finish) are available in three illumination colors: yellow-orange, white and blue.

Square buttons
The entire buttons (excluding characters) are illuminated yellow-orange, white or blue.

Note:
* Flat buttons are not applicable to regulation EN81-70.
Hall Designs

E-312 Splayed Jamb with Transom Panel
E-212 Square Jamb with Transom Panel

Hall Design Example of E-312
Jamb ——— SUS-HL
Transom panel ——— Colored (black) SUS-HE
Doors ——— Colored (black) SUS-HE
Hall lantern ——— HLV-E71
Hall button ——— HBV3-C710N

E-312 Splayed Jamb with Transom Panel
E-212 Square Jamb with Transom Panel

Hall Design Example of E-302
Jamb ——— SUS-HL
Doors ——— Painted steel sheet (Y033: White)
Hall lantern ——— HLV-E66
Hall button ——— HBV1-C710N

E-102 Narrow Jamb

Hall Design Example
Jamb ——— SUS-HL
Doors ——— SUS-HL
Hall position indicator and button ——— PIV1-A1010N

Entrance Finish Application Table

<table>
<thead>
<tr>
<th>Materials/Finishes</th>
<th>Jamb</th>
<th>Transom panel</th>
<th>Doors</th>
<th>Sill</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel, hairline finish (SUS-HL)</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>Stainless steel, hairline finish with etched pattern (SUS-HE)</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td>Stainless steel, mirror finish (SUS-M)</td>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glass windows (1100W x 2300H/1100W x 2800H)</td>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extruded hard aluminum</td>
<td>Optional</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stainless steel</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please refer to pages 31 and 32 for materials and colors.

Actual colors may differ slightly from those shown.
Materials and Colors

[Car] Walls, doors and transom panel

Colored stainless-steel, hairline-finish
- Gold
- Bronze
- Pattern-printed steel sheet
  - CP23 Minimal stripe
  - CP101 Silver
  - CP111 Dark grain
  - CP121 Primary grain
  - CP141 Bright slate

Etching patterns (gold or bronze)
- EPA-1
- EPA-2
- EPA-3

*Please refer to the etching finish pattern book, EFA1, for details.

Painted steel sheet
- (E210, N300, customized 1, customized 2 only)

Non-etched surface:
- Y033 White
- Y055 Dark gray
- Y073 Light beige

Etching patterns (stainless-steel)

Stainless-steel
- Y002 Dark brown
- Y004 Beige
- Y006 Green
- Y014 Red-violet
- Y016 Light brown
- Y033 White
- Y051 Pink
- Y054 Pale yellow
- Y055 Dark gray
- Y071 Neutral beige
- Y116 Blue

Painted finish
- Y004 Beige
- Y006 Green
- Y014 Red-violet
- Y016 Light brown
- Y033 White

[Hall] Doors, transom panel and jamb

Stainless-steel
- EPA-1
- EPA-2
- EPA-3
- EPA-4
- EPA-5
- EPA-6

Hairline-finish

Etching patterns (stainless-steel)

*Not applicable to the jamb; please refer to the etching finish pattern book, EFA1, for details.

[Car] Walls, doors and transom panel

Pattern-printed steel sheet

Flooring

Actual colors may differ slightly from those shown.

Durable vinyl tiles
- PR801 Cream beige
- PR803 Gray
- PR810 Ocher
- PR812 Dim-gray

[Hall] Doors, transom panel

Etching patterns
- Please refer to the etching finish pattern book, EFA1, for details.

Painted finish
- Y004 Beige
- Y006 Green
- Y014 Red-violet
- Y016 Light brown
- Y033 White

Etching patterns
- EP-B-009
- EP-D-006
- EP-F-004
FEATURES (1/2)

**OPERATIONAL AND SERVICE FEATURES**

- **Emergency Operation**
  - Door Sensor
  - Emergency by Fire
  - Firefighting Emergency Operation
  - Automatic Door Load Detector
  - Emergency Service
  - Hall Motion Sensor
  - Multi-beam Door Sensor
  - Emergency Door Operation Device
  - Hallway Motion Sensor
  - Attendant Service
  - Operation by Emergency Power System
  - Automatic Door Speed Control

**DOOR OPERATION FEATURES**

- **Time Adjustment**
- **Automatic Door Closing Control**
- **Door Load Detector**
- **Door Operation Feature Without Burglar Alarm**
- **Door Self-diagnosis**
- **Electronic Door EDM**
- **Extended Door-open Time**
- **Hall Motion Sensor**
- **Motor Drive Mix**
- **Multi-beam Door Sensor**
- **Reopen with Hall Button**
- **Repaired Door-closing**
- **Safety Door Edge**
- **Safety Ray**

**OPERATIONAL AND SERVICE FEATURES**

- **Attendant Service**
- **Automatic Back-up**
- **Automatic Call Disposition**

**GROUP CONTROL FEATURES**

- **Bank Separation**
- **Car Allocation**
- **Car Travel Time Evaluation**
- **Closest Car Priority Service**
- **Cooperation Optimization Assignment**
- **Destination Oriented Allocation System**

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**Notes:**

- 1C-2C (1-car service collected; Standard; 2C-2C (2-car group control system; Optional; 2A-2210C (3- to 8-car group control system; Optional; M: General; G: Standard; E: Optional; T: Not applicable to 1C-2C; — Not applicable
- 1. Please consult our local agents for the production terms, etc.
2. When the DOAS is applied, ADECC is, and the Safety Ray (SR) or Multi-beam Door Sensor feature should be installed.
3. Only when the operation system is 1C-2C.
GROUP CONTROL FEATURES (Continued from the previous page.)

■ Main Floor Parking MFP

Operation TFS

Main Floor Changeover

Intense Up Peak IUP

Fuzzy Logic —

Expert System and Priority Service UCPS

Light-load Car —

Speed Control ESO-V

Energy-saving Operation with Neural Networks NN

Distinction of Traffic Flow Optimizer DRO

Dynamic Rule-set during Off-peak — Power Reduction Energy-saving Operation

Strategic Overall Service SFPS

Special Floor Priority Service SCPS

Time Evaluation —

VIP Operation VIP-S

Up Peak Service UPS

VIP Operation VIP-S

Features (2/2)

Feature | Abbreviation | Description
--- | --- | ---
Operation Panel | ACS | An additional car control panel which can be installed for large-capacity elevators, heavy-traffic elevators, etc.
Basic Announcement | AAN-B | A synthetic voice and/or buzzer alerts passengers inside a car that elevator operation has been temporarily interrupted by overloading or a similar cause. (Available in limited languages.)
Car Arrival Chime | AAC — ACC-SCF | Electronic chimes sound to indicate that a car will soon arrive. (The chimes are mounted either on the top and bottom of the car, or in each hall.)
Car Information Display | CID | This 5.14- or 15-inch LCD for car front return panels shows the date and time, car position, travel directions and elevator status messages. In addition, customized video images can be displayed in full-screen or partial-screen formats.
Car LCD Position Indicator | CID-S | This 5.7-inch LCD for car operating panels shows the date and time, car position, travel direction and elevator status messages.
Flashing Hall Lantern | FHL | A hall lantern which corresponds to a car’s service direction. Debate to indicate that the car will soon arrive.
Hall Information Display | MID | This 10.4- or 15-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 | HID-S | This 5.7-inch LCD for elevator halls shows the date and time, car position, travel direction and elevator status messages.
Immediate Prediction Indication | AL | A hall lantern, which is red to cars that can accommodate all waiting passengers, and a chime sounds once to indicate which doors will open.
Intercommunication System | ITF | A system which allows communication between passengers inside a car and the building personnel.
Second Car Prediction | TCP | When a hall is crowded to the extent that one car cannot accommodate all waiting passengers, the hall lantern of the next car to serve the hall will light up.
Click Type | ACR | A click-type car button which emits electronic beep sounds when pressed to indicate that the call has been registered.
Voice Guidance System | AAN-G | Information on elevator service such as the current floor or service direction is given to the passengers inside a car.

Notes:
- 1C-2BC (1-car selective control) - Standard
- 1C-2BC (2-car group control system) - Optional
- 2A-100 (1- to 4-car group control system) - Optional
- 2A-200 (2- to 4-car group control system) - Optional
- Standard
- Optional
- T = Not applicable to 1C-2BC, T = Not applicable

1. Please consult our local agents for the production terms, etc.
## Important Information on Elevator Planning

### Work Not Included in Elevator Contract

The following items are excluded from Mitsubishi Electric’s elevator installation work. Their details or conditions are to be conformed to the statement of local laws or Mitsubishi Electric elevator's requirements, are therefore the responsibility of the building owner or general contractor.

- 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 entrance hall after installation has been completed.
- Construction of an illuminated, ventilated and waterproofed hoistway.
- The provision of a ladder to the elevator pit.
- The provision of openings and supporting members as required for equipment installation.
- Separate beams, when the hoistway dimensions markedly exceed the specifications, intermediate beams and separator partitions when two or more elevators are installed.
- The provision of an emergency exit door, inspection door and pit access door, when required, and access to the doors.
- All other work related to building construction.
- The provision of the main power and power for illumination, 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 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.

### 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. Protection 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.
  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.

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### Specifications

#### Capacity and Speed

<table>
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<th>Rated capacity (kg)</th>
<th>Number of persons</th>
<th>Rated speed (m/sec)</th>
<th>Mitsubishi Electric Standard</th>
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Notes:

1. The symbol ‘●’ shown in the table indicates that a technical inquiry is required.
2. The symbol ‘○’ shown in the table indicates that a technical inquiry is required depending on conditions.

#### Minimum floor to floor height (mm)

<table>
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<th>Height (mm)</th>
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<tr>
<td>10.0</td>
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</tbody>
</table>

Notes:

1. Please consult our local agents if the maximum travel exceeds the values specified in the above table.
2. Excluding the rated capacity 2250kg to 3000kg. Please consult our local agents for maximum travel.
3. For some elevator specifications, the floor height (distance between floors) must be a minimum of 2500mm. Please consult our local agents if the floor height is less than "Entrance height + 700mm".

#### Door System

**Standard**
- 2-panel center opening (CO)

**Optional**
- 2-panel side sliding opening (2S) or 4-panel center opening (2CO)

#### Operation System

**Standard**
- 1-car selective collective (1C-2BC)

**Optional**
- 2-car group control system (2C-2BC), 3- or 4-car group control ZA1-32 system, or 3- to 8-car group central ZA1-2000C system
State-of-the-Art Factories…
For the Environment. For Product Quality.

Mitsubishi Electric elevators and escalators are currently operating in approximately 90 countries around the globe. Built placing priority on safety, our elevators, escalators and building system products are renowned for their excellent efficiency, energy savings and comfort. The technologies and skills cultivated at the Inazawa Works in Japan and 12 global manufacturing factories are utilized in a worldwide network that provides sales, installation and maintenance in support of maintaining and improving product quality. As a means of contributing to the realization of a sustainable society, we consciously consider the environment in business operations, proactively work to realize a low-carbon, recycling-based society, and promote the preservation of biodiversity.

ISO9001/14001 certification

Mitsubishi Electric Corporation Inazawa Works has acquired ISO 9001 certification from the International Organization for Standardization based on a review of quality management. The plant has also acquired environmental management system standard ISO 14001 certification.

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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 100-8310, JAPAN


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