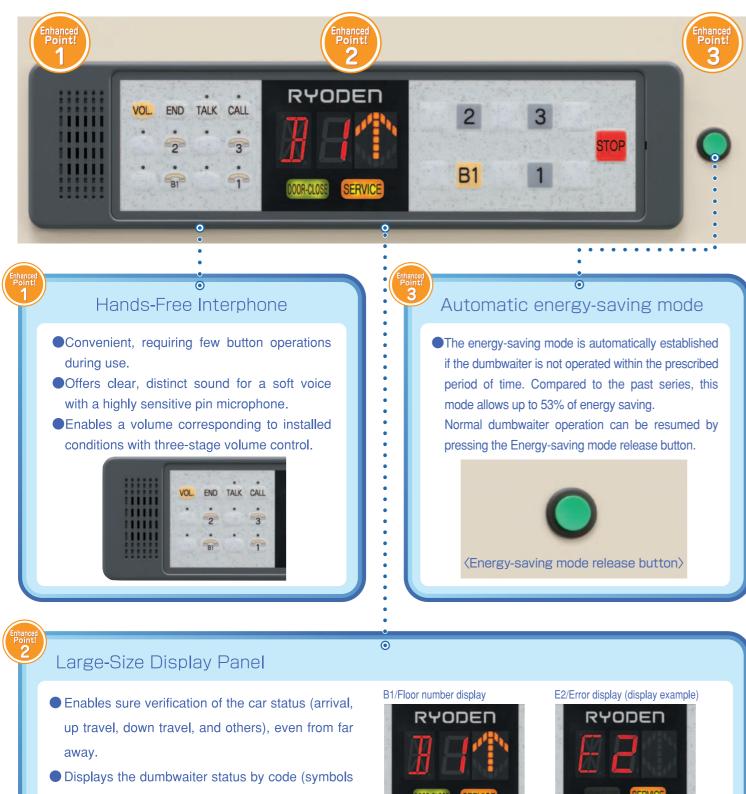
RYODEN TECHNOLOGY

RYODEN DUMBWAITER Table Type / Floor Type



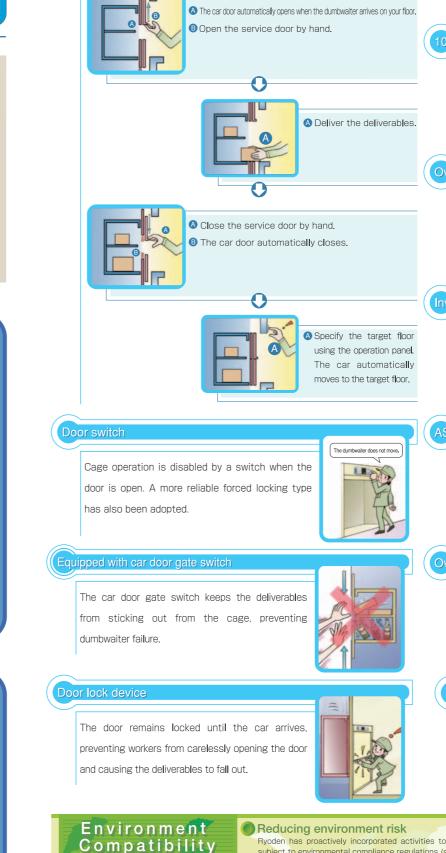
The Ryoden G-Series Dumbwaiter represents a more advanced environment-friendly model which offers improved operability, functionality, and safety, as well as an automatic energy-saving mode which effectively reduces power consumption.



Standard Equipment

multaneous opening/closing of car door

The car door (inner door) automatically opens and closes when the service door is opened or closed by hand. This eliminates the double work required when taking out or putting in deliverables.



endly specifications for environmen

and numbers).

The dumbwaiter status is displayed on the operation panel with alarm call when trouble occurs, enabling quick response.

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0mm space between car and doorsill

The space between the floor-type car and doorsill is 10mm, allowing carts to be smoothly taken out and put in with inverter control.

Overload alarm device

The overload alarm device prevents trouble caused by overload. An alarm call is made when the carrying capacity is exceeded, thereby preventing product failure and accidents.

The inverter accurately controls the car stop position. The stop position is maintained with high accuracy, regardless of carrying capacity.

The AST system automatically stops the motor when trouble is detected during car operation.

A switch for preventing the car from passing its destination is provided in duplicate. Users are notified of switch failure by an error code displayed on the operation panel.

/ariable shelf boards

The table type allows the shelf boards to be set at five different heights in accordance with the size of the deliverables.

Ryoden has proactively incorporated activities to eliminate substances subject to environmental compliance regulations (such as lead, chromium hexavalent, and cadmium), thereby achieving a Pb free substrate.

Recycling Ryoden displays the material on molded parts to improve recycle ability.















RYODEN

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The RT type is provided with an opening at waist height, ensuring smooth operation. This type is ideal for transporting small deliverables.

Standard-color variation

• The RT type is available to three types corresponding to the load capacity: 30kg, 50kg, and 100kg. The type can be selected with customer needs.

•The shelf boards inside the car can be changed to the height matched with deliverables.

R

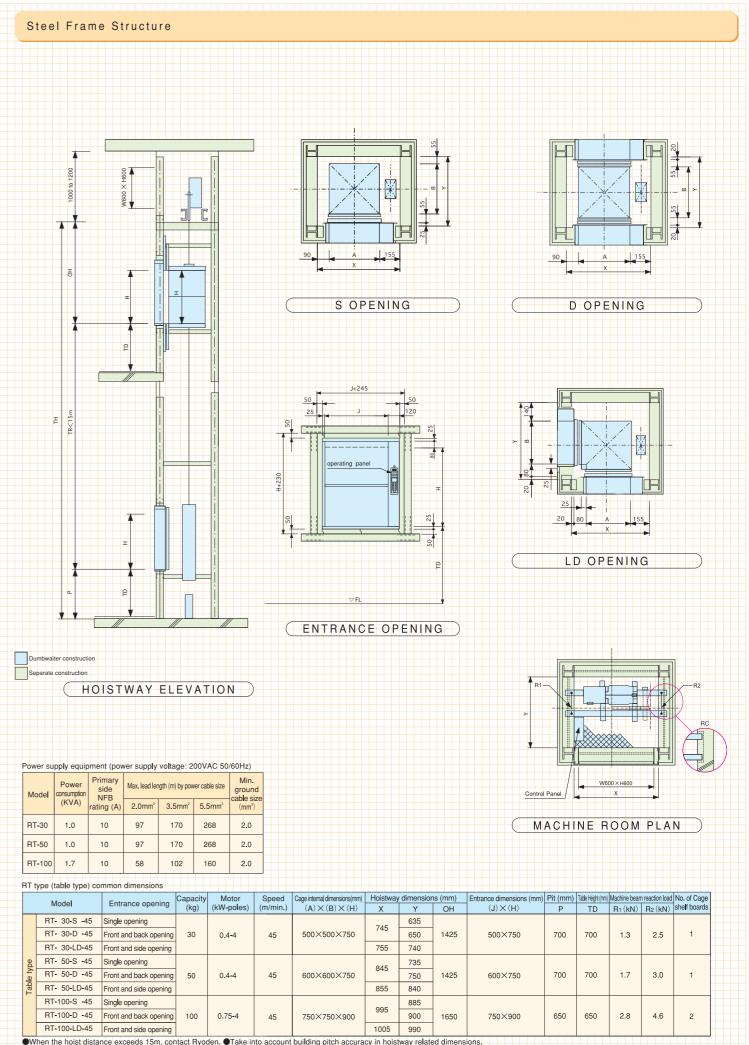
• The three standard-color panels are available to accommodate the various installed environments.

Note that the actual colors may vary slightly from those below due to the printing process.

| 1.4.5.0 | Standard s | pecification | Option specification | | |
|--------------------------------|-----------------|------------------------|----------------------|----------------------|--|
| Item | Material | Front surface finish | Material | Front surface finish | |
| Jamb | Steel sheet | Painted | Stainless steel | Hairline | |
| Service door (Bi-Parting door) | Steel Sheet | Fainteu | Stall liess steel | Папіпе | |
| Table | Stainless steel | Hairline | | | |
| Cage (ceiling and walls) | Steel sheet | Painted | Stainless steel | Hairline | |
| Cage (shelf board) | Ctainlana ataol | ainless steel Hairline | | | |
| Cage (floor) | Stamless steel | | | | |
| Cage (Bi-Parting door) | Steel sheet | Painted | Stainless steel | Hairline | |
| Operating panel | ABS resin | | | | |

Remark : For other option specifications besides above-mentioned / please apply to RYODEN

р



| ay dimensions (mm) | | ns (mm) | Entrance dimensions (mm) | Pit (mm) | Table Height (mm) | Height (mm) Machine beam reaction load | | No. of Cage | |
|--------------------|------------|-----------|--------------------------|----------|-------------------|--|--------|--------------|--|
| ĺ | Y | OH | (J)×(H) | P | TD | R1 (kN) | R2(kN) | shelf boards | |
| | 635 | | | | | | | | |
| | 650 | 1425 | 500×750 | 700 | 700 | 1.3 | 2.5 | 1 | |
| | 740 | | | | | | | | |
| | 735 | | | | | | | | |
| | 750 | 1425 | 600×750 | 700 | 700 | 1.7 | 3.0 | 1 | |
| | 840 | | | | | | | | |
| | 885 | | | | | | | | |
| | 900 | 1650 | 750×900 | 650 | 650 | 2.8 | 4.6 | 2 | |
| | 990 | | | | | | | | |
| st | way relate | ed dimens | ions. | | | | | | |

RYODEN

The RL type is capable of transporting handcarts and service tables. Heavy deliverables can be loaded on handcarts into the car.



• The RL type is available to three types corresponding to the load capacity: 200kg, 300kg, and 500kg.

R

• The maximum car size of 1000 (W) x 1000 (D) x 1200 (H) (mm)

offers a comfortable amount of transporting space.

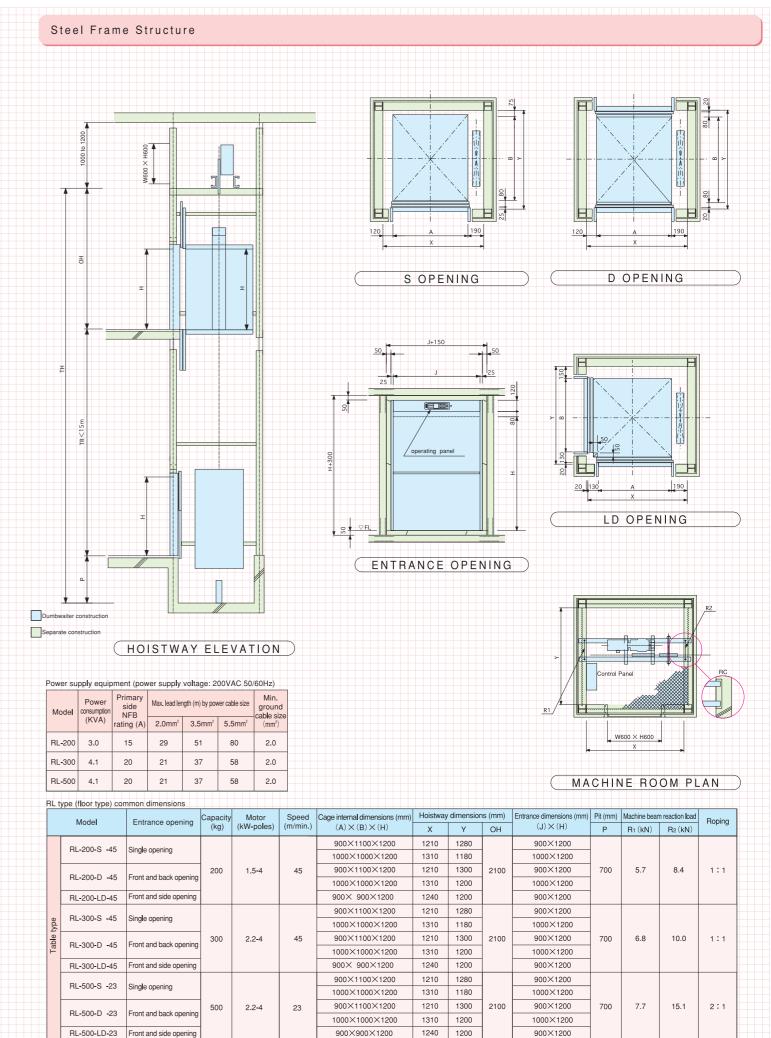
• The three standard-color panels are available to accommodate the various installed environments.



| l te m | Standard s | pecification | Option specification | | |
|--------------------------------|-----------------|----------------------|----------------------|----------------------|--|
| I t e m | Material | Front surface finish | Material | Front surface finish | |
| Jamb | Steel sheet | Steel sheet Painted | | Hairline | |
| Service door (Bi-Parting door) | Steel sheet | Fainteu | Stainless steel | Hairline | |
| Doorsill | Angle steel | Painted | Stainless steel | Hairline | |
| Cage (ceiling and walls) | Steel sheet | Painted | Stainless steel | Hairline | |
| Cage (floor) | Checkered steel | Painted | Stainless steel | Hairline | |
| Cage (Bi-Parting door) | Steel sheet | Painted | Stainless steel | Hairline | |
| Operating panel | ABS resin | | | | |

Remark : For other option specifications besides above-mentioned / please apply to RYODEN

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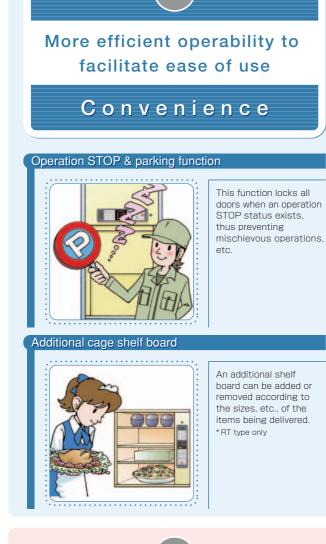


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OWhen the hoist distance exceeds 15m, contact Ryoden. Take into account building pitch accuracy in ho

| Hoistway dimensions (mm) | | is (mm) | 1 · · · · · · · · · · · · · · · · · · · | Pit (mm) | Machine beam reaction load | | Roping | |
|--------------------------|-----------|---------|---|-----------------|----------------------------|-----------|---------|-----|
| Х | Y | OH | $(J) \times (H)$ | Р | R1 (kN) | $R_2(kN)$ | rioping | |
| 1210 | 1280 | | 900×1200 | | | | | |
| 1310 | 1180 | | 1000×1200 | | | | | |
| 1210 | 1300 | 2100 | 900×1200 | 700 5.7 | 5.7 | 8.4 | 8.4 1:1 | 1:1 |
| 1310 | 1200 | | 1000×1200 | | | | | |
| 1240 | 1200 | | 900×1200 | | | | | |
| 1210 | 1280 | | 900×1200 | | 700 6.8 | .8 10.0 | | |
| 1310 | 1180 | | 1000×1200 | | | | | |
| 1210 | 1300 | 2100 | 900×1200 | 700 6.8 | | | 1:1 | |
| 1310 | 1200 | | 1000×1200 | | | | | |
| 1240 | 1200 | | 900×1200 | 1 | | | | |
| 1210 | 1280 | | 900×1200 | | | | | |
| 1310 | 1180 | | 1000×1200 | 700 7.7 15.1 2: | 700 7.7 15.1 | 7.7 15.1 | | |
| 1210 | 1300 | 2100 | 900×1200 | | | | 2:1 | |
| 1310 | 1200 | | 1000×1200 | | | | | |
| 1240 | 1200 | | 900×1200 | | | | | |
| stway re l | ated dime | nsions. | | | | | | |

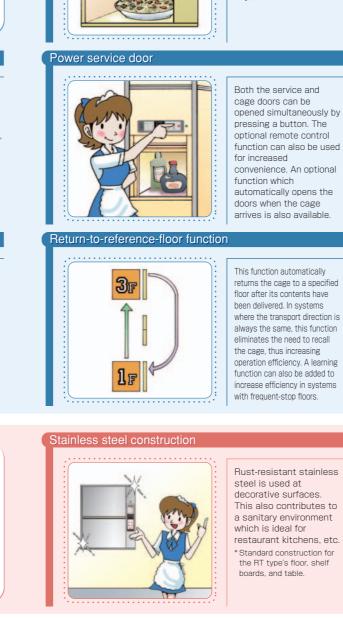
Options



Equipped for better

cleanliness

Sanitary



Cage lamp (LED)

Cage lighting ensures that delivered items (even small items) are

clearly visible in dark environments.

* This lighting does not apply to some models. For details, please contact

Rvoden.

Rust-resistant stainless steel is used at decorative surfaces. This also contributes to a sanitary environment which is ideal for restaurant kitchens, etc. * Standard construction for the RT type's floor, shelf boards, and table.





The service door can be locked by a dedicated key.

Basic specifications

| | lkene | Table Type | Floor Type | |
|----------------------|---|------------|------------|--|
| | Item | RT | RL | |
| Application | Small freight items | • | • | |
| Power supply | 3-phase 200 VAC, 50/60Hz * Power transformer is option. | • | • | |
| Control format | Inverter control | • | • | |
| Energy-saving | Automatic energy-saving mode | • | • | |
| Drive format | Traction format | • | • | |
| Operation format | Mutual-floors operation format (SEN) | • | • | |
| Number of stops | 2 to 8 stops | • | • | |
| UP/DOWN distance | Max. 15m | • | • | |
| UP/DOWN distance | From 15m to 30m | RT O | 0 | |
| | 45m/min | • | — | |
| Rated speed | Load capacity: 200, 300kg = 45m/min | - | • | |
| | Load capacity: 500kg = 23m/min | - | • | |
| Door format | Service door: manual upper/lower bi-parting doors | • | • | |
| Door Ionnat | Cage door: power upper/lower bi-parting doors | • | • | |
| Communication format | Interphone: hand-free / press & talk (selectable) | • | • | |
| | Auto announce | • | • | |
| Signal functions | Cage position indicator lamp | • | • | |
| Signal functions | Error code indicator lamp | • | • | |
| | DOOR OPEN warning (buzzer, announcement) | • | • | |
| | Service door lock | • | • | |
| | Service door switch | • | • | |
| | Cage door gate switch | • | • | |
| Safety equipment | Cage overrun limiting switch | | • | |
| | AST system | | • | |
| | Emergency Stop button | | • | |
| | Overload alarm unit | | • | |

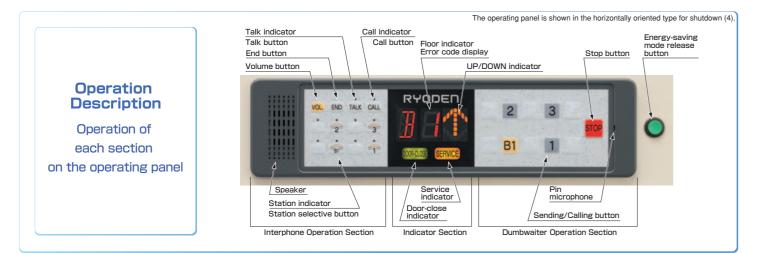
Specifications table

| | ltem | Table Type | Floor Type | |
|-------------------|---|------------|------------|--|
| | Item | RT | RL | |
| le se h | Painted steel plate | • | • | |
| Jamb | Stainless steel hairline | 0 | 0 | |
| Table | Stainless steel hairline | • | — | |
| Threshold | Painted copper plate | - | • | |
| Threshold | Stainless steel hairline | — | 0 | |
| Operating papel | Sealed plastic sheet (splash-proof) | • | • | |
| Operating panel | Stainless steel hairline face plate | 0 | 0 | |
| Service door | Painted copper plate | • | • | |
| Service door | Stainless steel hairline | 0 | 0 | |
| | Ceiling and walls: painted copper plate | • | • | |
| | Ceiling and walls: stainless steel hairline | 0 | 0 | |
| Cage interior | Cage floor: stainless steel hairline | • | 0 | |
| | Painted and checkered steel plate for floor | _ | • | |
| | Shelf boards: stainless steel hairline | • | — | |
| Cage door | Painted copper plate | • | • | |
| Cage 0001 | Stainless steel hairline | 0 | 0 | |
| | Operation STOP switch (with parking function) | 0 | 0 | |
| | Return-to-reference-floor function | 0 | 0 | |
| Service functions | Cage shelf board addition (1 shelf) | 0 | _ | |
| | Power service door | 0 | 0 | |
| | Service door lock | 0 | 0 | |
| | Cage, weight emergency stop unit | 0 | 0 | |

Ryoden G-Series Dumbwaiter

Specifications Table

• : Basic specifications O : Optional (additional fee) specifications



Automatic energy-saving mode

The operation panel's indicator lamps are switched OFF and the energy-saving mode (control power OFF) is automatically established if the dumbwaiter is not operated within 10 minutes after the Service indicator lamp switches OFF. To resume dumbwaiter operation from this status, simply press the Energy-saving mode release button.

* The energy-saving mode is disabled when an error is active (when an error No. is displayed)

* The energy-saving mode is automatically established when the dumbwaiter is not in use, even if the interphone is in use or a standby status exists.

Operation of Each Section on the Operating Panel

| Dumbwatter operation section | | | |
|------------------------------|---|--|--|
| Item | Function | | |
| | Calls or sends the car. The target floor name in the indicator section flickers when registered. | | |
| Stop button | Stops the car when the car senses an error during operation. The "E0" lamp in the error code display turns on while the button is pressed. | | |

2 Indicator Section

Dumbwaiter operation section

| Item | | Function |
|------------------------------|---------------------------|--|
| Travel indicator (orange) | ↓ . | Indicates the car is upward. Indicates the car is downward. |
| Floor indicator (red) | ON : Flicker | Indicates the name of the floor where the car is stopped. Indicates the target floor name while the car is traveling. |
| Error code display (red) | E0 to E9 and EA, Eb : | Indicates an error occurred. |
| Door-close indicator (green) | Indicates that the server | vice door and car door are fully closed. |
| Service indicator (yellow) | Indicates that the serv | vice door is open, or that the car is in operation. |

③Interphone operation section

| Item | Function |
|--|--|
| Station selective button (indicator: red) | Talk with the target floor.The indicator turns on when the station is selected. |
| Call button (indicator: red) | Sounds in tremolo on the selected floor. (This button also allows you to call the selected floor by voice.) The indicator turns on while the call button is pressed. |
| Talk button (indicator: red) | Switches the talk mode from hands-free to press-talk. The indicator turns on in press-talk mode. (The indicator turns off in hands-free talk mode.) The indicator turns on when the interphone is in use in an area other than your station. |
| End button | Ends talking. |
| Volume button | Adjust the volume of the call, talk, and auto announcement sound to one of three levels, in the order of low R medium R high. |
| Speaker | Sounds call, talk, and auto announcement. |
| Pin Microphone | Picks up voices. (The microphone is highly sensitive and does not require proximity during talking.) |

WORKS NOT INCLUDED IN INSTALLATION CONTRACT

1. THE CONSTRUCTION WORKS OF HOISTWAY AND MACHINE BOOM.

2.HOLES OF MACHINE ROOM FLOOR AND OPENINGS OF EACH FLOOR.

3. MACHINE ROOM ENTRANCE.

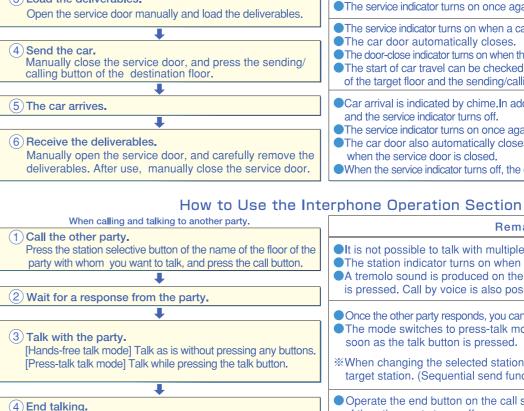
- 4. OPENING FOR CARRYING CONTROL PANEL AND MACHINE, AND THEIR POURING.
- 5.PIT WATERPROOF WORKS.

6.WIRINGS FOR POWER SUPPLY INCLUDING EARTHING TO POWER RECEIVING BOX IN MACHINE ROOM.

7. WIRING FOR SIGNAL POWER SUPPLY TO POWER RECEIVING BOX IN MACHINE ROOM.

8.ILLUMINATION EQUIPMENT WORKS IN MACHINE ROOM AND ELECTRIC OUTLET FOR INSPECTION.

9.IF A GROUND FAULT INTERRUPTER IS USED AS THE CIRCUIT BREAKER, SET THE CURRENT SENSITIVITY TO 100 MA OR GREATER.





Press the end button

How to Adjust the Volume

| [Adjusting the volume of the call sound] Press the volume button while pressing the call button. | |
|---|---------|
| | |
| [Adjusting the volume of the talk sound] Press the volume button while pressing the talk button. | ●A conf |
| | A confi |
| [Adjusting the volume of the alarm and chime] Press the volume button while pressing the end button. | |

NOTES

- 1.VOLTAGE FLUCTUATION SHAL BE WITHIN +5%~-10%
- 2.THE FOLLOWING CONDITIONS ARE REQUIRED FOR MAINTAINING THE PREDETERMINED PERFORMANCE. (1) ENSURE THAT A 0°C TO 40°C TEMPERATURE IS MAINTAINED IN THE MACHINE ROOM AND THE UP/DOWN PASSAGEWAY,
- WITH THE AVERAGE MONTHLY HUMIDITY NOT EXCEEDING 90%, AND THE AVERAGE DAILY HUMIDITY NOT EXCEEDING 95%. (2) MOISTURE SHOULD BE BELOW 90% ON A MONTHLY AVERAGE AND BELOW 95% ON A DAILY AVARAGE.
- (3)MACHINE ROOM AND THE HOISTWAY SHOULD BE FREE OF DUST OR HARMFUL GAS.
- 3. THE TUBE APPARATUSES FOR ELECTRICITY OR WARTER SUPPLY SHALL NOT BE BURIED INTO HOISTWAY WALL.

How to Use the Dumbwaiter Operation Section

Remarks

• The service indicator turns on when a car call registration command is received. Whether or not the car is on your floor is verifiable by viewing the floor indicator (flickering) and sending/calling indicator (on).

Car arrival is indicated by the sending/calling indicator turning off and the bells chime. In addition, the car door automatically opens and the service indicator turns off. The service indicator turns on once again when the service door is opened.

The service indicator turns on when a car send registration command is received. The car door automatically closes.

The door-close indicator turns on when the service door and car door are fully closed. The start of car travel can be checked by viewing the floor indicator (flickering) of the target floor and the sending/calling indicator (on).

• Car arrival is indicated by chime. In addition, the car door automatically opens and the service indicator turns off.

The service indicator turns on once again when the service door is opened. • The car door also automatically closes and the door-close indicator turns on when the service door is closed.

•When the service indicator turns off, the car waits for the next call/send command.

Remarks

It is not possible to talk with multiple parties at once. The station indicator turns on when the station is selected. A tremolo sound is produced on the selected floor when the call button is pressed. Call by voice is also possible.

Once the other party responds, you can talk with each other in hands-free mode. The mode switches to press-talk mode and the talk indicator turns on as soon as the talk button is pressed.

When changing the selected station floor, press the station button of the target station. (Sequential send function)

Operate the end button on the call side. The call/talk indicator on the floor of the other party turns off.

Remarks

The call indicator and talk indicator turn on.

After responding, you can talk with the other party in hands-free mode. (Mutual, hands-free talk mode)

Remarks

firmation ring sounds in the order of low R medium R high.

firmation chime sounds in the order of low R medium R high.



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