Yungtay Elevator

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Connecting Elevator with Aritificial Intelligence Yungtay E PASS Smart Safety Elevator

Elevate Your Quality of Life



Machine Room-Less **Passenger Elevator**

HITACHI Inspire the Next

④日立永大電梯股份有限公司 Hitachi Yungtay Elevator Co., Ltd.



- 03 MRL Intelligent Elevator
- 05 E PASS Smart Safety System
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We have been subsequently certificated by ISO 9001, ISO 14001, ISO 45001, and VDI 4707. As the elevator manufacturer with advanced technology, we can best guarantee our quality.

MRL Artificial Intelligent Elevator

Innovative Pattern of Whole New Elevator User-Friendly / Safer / Greener



ľ

ISO

Reduce noise conduction

The main motor, placed on the top of the guide rail, does not touch the hoistway wall. Therefore, reduce vibration and noise from being transmitted to the inside of the building through the hoistway wall.



E PASS Aritificial Intelligent Elevator

Machine-roomless elevator introduces the E PASS intelligent safety system to provide users with multiple innovative elevator solutions and overall elevator safety.



TÜV

Anti-Epidemic Precautionary Elevator

Many compartment disinfection technologies and non-contact elevator solutions reduce the risk of germ transmission and provide users with a clean and comfortable elevator environment.

VDI 4707 - Energy Efficient Label for Elevators

Our products have passed the review of the world-renowned certificate authority (TUV Rheinland Group). The entire series of passenger elevators obtain Class A energy efficiency certificates. They were marking that the related products of Yungtay Elevator have reached the advanced international level in energy efficiency.



Improve Space Usage Performance

The new machine room-less elevator does not require planning and design of the machine room in the building, which can effectively improve space use efficiency.



Advanced Technology, Guaranteed Quality

Save Construction Cost

The new machine room-less elevator does not need to build the elevator machine room above the hoistway during the installation process, which can effectively improve the installation efficiency, shorten the installation period, and save construction costs.

E PASS

Smart Satety System

PASS

Keep abreast of the times



energy Saving

ENERGY EFFICIENCY

"Destination Dispatch" and "FT3X Group Control" reduce the number of elevator stops, effectively improving the efficiency of elevator operation. Besides, the "Energy Feedback Device" goes back the regenerative power to the building power grid, truly accomplishing "energy saving, environmental protection, and earth love."

Destination Dispatch

Register the destination floor before boarding the elevator, and distribute the passengers to each elevator through AI computing distribution, reduce the number of elevator stops, improve operation efficiency, and shorten the waiting time of passengers. (This function can also link with the access control system)

FT3X Group Control

In each car call from the hall, according to the relative position of each elevator and the registered car-calling signal, calculate the optimal dispatching arrangement, reducing the overall average waiting time and the probability of passengers waiting for a long time.



Energy Feedback Device

The regenerative power generated by the Energy Feedback Device can feed back to the building power grid to supply electricity for the building when the elevator runs in light-load upward or heavy-load downward. In addition, the device can return clean electric energy to achieve green energy-saving benefits.



PREVENTIVE MAINTENANCE

Use the "Internet of Things" to maximize the intelligence of the elevator system through network collection, analysis, and utilization of elevator data. Therefore, achieve elevator status monitoring, remote management, data statistics, fault alarm, maintenance supervision, and emergency response functions.



Internet of Things (IoT)

IoT collects, analyzes, and utilizes elevator data through the network to optimize the intelligent elevator system and achieve the elevator functions of intelligent monitoring, preventive maintenance, and instant rescue.

PREVENTIVE MAINTENANCE

ENERGY EFFICIENCY

ARTIFICIAL INTELLIGENCE



SECURITY



ARTIFICIAL INTELLIGENCE

Through artificial intelligence calculation and distribution, "Destination Dispatch" and "FT3X Group Control" accurately allocate the elevator service to shorten the waiting and take the time of passengers to use the elevator. In addition, "Face Recognition," "Voice Car Calling," and "Smartphone Car Calling" highly improve the convenience of use.



Face Recognition

After confirming the passenger's identity through the facial recognition system, the right to register the floor is granted, or the system can directly register to the preset destination floor. The system can also combine with the Destination Dispatch system to guide the identified passenger to the designated elevator. (The owner provides the face recognition machine, and Hitachi Yungtay Elevator provides the communication interface)

Voice Car Calling

Passengers can register the destination floor in the car by voice, replacing the traditional touch button, reducing the risk of germ transmission.



Destination Dispatch

Register the destination floor before boarding the elevator, and distribute the passengers to each elevator through AI computing distribution, reduce the number of elevator stops, improve operation efficiency, and shorten the waiting time of passengers. (This function can also link with the access control system)

FT3X Group Control

In each car call from the hall, according to the relative position of each elevator and the registered car-calling signal, calculate the optimal dispatching arrangement, reducing the overall average waiting time and the probability of passengers waiting for a long time.

It uses the APP and BlueTooth from a smartphone or tablet to accurately



floor registration.

People Flow Control

The system can automatically detect the number of people waiting in the hall. The intelligent group control dispatching system can flexibly increase the number of service elevators, which can instantly evacuate the crowd and shorten passengers' waiting and boarding time.

Smartphone Car Calling

locate the floor and guickly complete the elevator call and the destination



SAFETY

It uses technology invention patents such as "Self-rescue System for Car Slipping" and "Brake Force Detection System" together with safety system devices (unintended car movement protection of the elevator cage, over-speed protection, automatic landing device for power failure, and absolute positioning system) to protect the safety of the ride in all directions.

Self-rescue System while Car Slipping

Safety technology invention patent. The system monitors the car's status when the elevator is in the door-opening zone. If the car is slipping, the computer host automatically outputs the holding torque to keep the car in the door-opening zone, immediately opening the door and reminding passengers to leave the elevator. When the car is vacant, the elevator closes the door and runs to the top floor (the safest position), generating a fault code and stopping service.

Unintended Car Movement Protection (UCMP)

When the elevator door is opened for passengers to enter and exit, the brakes are immediately activated to stop the elevator service once the elevator moves unexpectedly. The elevator will resume regular operation only after maintenance and inspection by professionals.

When the elevator goes up, suppose the speed limiter detects that the up speed exceeds the limit value, it will start the brake to stop the elevator to ensure that it runs safely at the rated speed.

Brake Force Detection System

Safety technology invention patent. The braking force detection of the elevator motor is automatically performed daily on a preset schedule. When the braking force becomes weakened, a warning code will be issued to notify the maintenance personnel to take preventive measures. Furthermore, suppose the braking force is insufficient, the elevator will stop service and generate a fault code for the maintenance personnel to troubleshoot to ensure the brakes' reliability and effectiveness.

Automatic Landing Device for Power Failure (ALP)



Absolute Positioning System (APS)

The sensor above the elevator car reads the tape installed in the hoistway in a non-contact way to detect the current absolute position of the car. Avoid measurement errors caused by rope slippage or dynamic rop effects; even unfavorable environmental conditions (such as thick black smoke) do not affect the measurement results. In addition, it can increase the functions of upstream and downstream overspeed protection and check end-stage deceleration, greatly improving safety.

Ascending Car Overspeed Protection (ACOP)

In the event of a power failure, the device will replace the regular power supply, and the elevator will automatically move to the nearest floor to allow passengers to exit the car safely, thereby avoiding the situation where passengers are locked in the elevator during a power failure.



SECURITY

The "Security Mode" strengthens daily safety precautions and prevents crimes; when an emergency occurs, the "Car Monitoring" proactively reports to the outside world that passengers fall over or are inactive, minimizing the damage in the event of an accident. In addition, antibacterial disinfection technologies such as "Positive and Negative Ions Air Purifier" and "Non-Contact Button" can double protect passengers' health.



Face Recognition

After confirming the passenger's identity through the facial recognition system, the right to register the floor is granted, or the system can directly register to the preset destination floor. The system can also combine with the Destination Dispatch system to guide the identified passenger to the designated elevator. (The owner provides the face recognition machine, and Hitachi Yungtay Elevator provides the communication interface)

Internet of Things (IoT)

IoT collects, analyzes, and utilizes elevator data through the network to optimize the intelligent elevator system and achieve the elevator functions of intelligent monitoring, preventive maintenance, and instant rescue.





Central Monitoring System (YECM)

The YECM system transmits the elevator operation signal in the operation panel to the monitoring computer through digital communication. The administrator can monitor the running status of the elevator, set the running mode, issue control commands, perform statistical analysis of the elevator operation, make reservations, and record the faults of the elevator.

Smartphone Car-Calling

It uses the APP and BlueTooth from a smartphone or tablet to accurately locate the floor and quickly complete the elevator call and the destination floor registration.



Security Mode

When there is an intruder in the home, the user can enter the password through the floor button on the car control panel so that the elevator will move to the non-leveling floor and stand by, and the lighting and fans will continue to run. At this time, the system will automatically notify the service center through the IoT function, making the elevator a safe refuge.

Car Monitoring

The car monitoring device can automatically detect the situation in the car. For example, suppose the passenger falls over or cannot move; the elevator will automatically run to the lobby floor to open the door, sound an alarm, and notify the service center through the IoT function to minimize the damage of an accident.



Car Disinfection

for the health of passengers.

Non-Contact Button

When moving the finger toward the button within 1 cm, passengers can trigger the button signal to call a car by induction. As a result, passengers do not need to press buttons directly, reducing the risk of germ infection.



Emergency Visible System

When an emergency occurs in the car, passengers can press the emergency video intercom button on the car's control panel to communicate with the outside. People outside the car can also know the situation in the car in real-time through the visual system to ensure the safety of passengers.

Elevator Multimedia System (OPYM4)

It can display the dynamic position of the elevator and import information. such as weather conditions or financial stock markets through the Internet. In addition, it provides passengers with real-time and valuable information and can provide functions such as audio and video advertisements and electronic announcements.



"Positive and Negative Ions Air Purifier," "Antibacterial Handrail," and "UV Germicidal Lamp" provide clean space for the elevator and additional protection





Anti-epidemic Precautionary Elevator

Multiple Sterilization and Disinfection Technology

SHARP Professional Medical Plasmacluster Air Purifiers

The only air cleaner that simultaneously releases a large number of H+ (positive) and O2- (negative) ions, fighting off bacteria actively and comprehensively.





Nano-Photocatalyst Air Purifier

Nano-photocatalyst technology purifying the air. Air purification and sterilization efficiency, more than 90%, PM 2.5 purification efficiency, more than 95%.



efficiency achieves 99%. By induction protection device, when someone is sensed, UV disinfection will stopped immediately.



Antibacterial Handrail

The wooden surface of the handrail of the car is added with the antibacterial and anti-mildew coating to form an antibacterial protective layer. When germs contact the surface of the handrail, the antibacterial coating will inhibit the activity of germs.

Non-Contact Solution

Passengers do not need to press any elevator button, and therefore they avoid cross infection and ensure a safe ride.



Non-Contact Button

When moving the finger toward the button within 1 cm, passengers can trigger the button signal to call a car by induction. As a result, passengers do not need to press buttons directly, reducing the risk of germ infection.



Voice Car-Calling

No hand, no contact! Just name the floor you want. Reduce the chance of infection.

Infrared Light Curtain

The elevator will promptly detect any people or objects blocking the infrared light curtain and reopen the door during the closing process. Improve riding safety, and have a non-contact epidemic prevention effect











Lower Noise **Higher Torque**



Lower **Lighter Weight** Electromagnetic Smaller Volume Interference



Higher Electrical

Efficiency

Higher Structural Strength

Highly efficient LED is comprehensively applied: low-frequency flash, high electrical efficiency, mercury pollution-free, and long service life, accomplishing the home of full evolution.

At most approximately 40% of the electricity can be saved by the Energy Feedback Device.

PERMANENT MAGNET

In an age of shorter resources, Hitachi Yungtay Elevator devotes to realizing green technology, fully adopting the elevator with permanent-magnet (PM) gearless traction machine.



Gesture Car-Calling

Simply wave your hand up and down in the elevator hall to call the car. Not only bettering experience with elevator rides but also eliminating contact with germs on the buttons to protect the health of passengers.



rotect nature

Smart and Energy-saving Innovative Technology

Features of Gearless PM Motor Traction Machine

O Traction machine with higher transmission efficiency and lighter weight that can reduce electricity consumption to save energy as well as lower carbon emission.

O Gearless structure eliminates the noise by occlusion of gear wheels. As a result, there is no need to use gear oil for lubrication. O Dual brakes.

O Winding Self-Interlock Device: Even if the brake fails, the elevator will only slowly slide down until the buffer is compressed, and then the slide halts; no severe damage will incur due to uncontrollable collision.

PM Direct Drive Synchronous Door System

The smart PM motor is higher efficient and lower noisy, possessing the technologies of motor parameters and magnetic pole self-learning. The end of the car door closing will be smoother, faster, steadier, and quieter.

High Efficient Energy Feedback Device (OPTION)

Using the energy feedback device, the regenerative power generated by the traction motor is able to feed back to the electrical network for reuse, obtaining the highest 5A level certification of the European Union's new elevator green energy-saving efficiency seal "VDI 4707"



Green Advanced LED



New machine-roomless elevators effectively reduce the space used by mechanical equipment, reduce elevator operating noise, and enhance passengers' comfortable riding experience.

Car Design - CH5 **Modern Aesthetics** Modest Temperament · Elegant in Good Taste

Ceiling

Main Frame Middle Plate Side Plates Lighting

Steel Plate with Baked Painting (J147) Spherical Creamy White Acrylic Milky White Acrylic Plate White LED Lighting

Floor NPC Floor Tile : (505)

> Car Do Front Side W

> > Rear W





Wall Panels

| oor | Steel Plate with Colored Pattern (A111) |
|------|---|
| Wall | Stainless Steel Plate with Hairline Finished |
| Vall | Steel Plate with Colored Pattern Left / Right Plate - (C114); Middle Plate - (A111) C114 single-colored sidewall is for the elevator with a capacity of 9 passengers at most |
| Vall | Steel Plate with Colored Pattern |



Car Design - CH10

Future Image Simplicity Characteristics · Bold and Advanced

Ceiling

Main Frame Left/Right Lighting

Steel Plate with Baked Painting (J161) Steel Plate with Baked Painting (1-30) Lining White Wood Grating and Rice Paper Acrylic Warm LED Lighting

Floor

NPC Floor Tile : (531) Frame : (536)



| Car Door |
|------------|
| Front Wall |
| Side Wall |
| Rear Wall |
| |

Steel Plate with Colored Pattern (1072) Stainless Steel Plate with Hairline Finished Steel Plate with Colored Pattern (1072) Steel Plate with Colored Pattern (1072) + Mirror Plate Stainless Steel Decorative Strip

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Car Design - CH12 European Classic Silent Steady · Eternal Nobility

Ceiling

Main Frame Steel Plate with Baked Painting (1-51) Matching with Milky White Acrylic Plate Lighting Warm LED Lighting

Floor

Faux Stone Floor Tile : (8T7) Frame : (8T0)

Car Do Front V Side W

Rear W







Wall Panels

| or | Steel Plate with Colored Pattern (A111) |
|------|---|
| Vall | Stainless Steel Plate with Hairline Finished |
| all | Steel Plate with Colored Pattern Left / Right Plate - (SNW-9); Middle Plate - (A111) SNW-9 single-colored sidewall is for the elevator with a capacity of 9 passengers at most |
| all | Steel Plate with Colored Pattern Left / Right Plate - (SNW-9); Middle Plate - (A111) |

+ Mirror Plate Stainless Steel Decorative Strip



Car Design - CH18 Delicate Paragon Steady Magnitude · Prime Honor

Ceiling

Main Frame 3 partitions 1 piece Lighting

Steel Plate with Baked Painting (1-51) Matching with Milky White Acrylic Plate Inside Width > 1100mm Inside Width ≧ 1100mm Warm LED Lighting

Floor

NPC Floor Tile: (531) Frame : (536)



Wall Panels

| Car Door | Steel Plate with Colored Pattern (SNW-1) |
|------------|--|
| Front Wall | Stainless Steel Plate with Hairline Finished |
| Side Wall | Steel Plate with Colored Pattern Left / Right Plate - (SNA-7); Middle Plate - (SNW-1) SNA-7 single-colored sidewall is for the elevator with a capacity of 9 passengers at most |
| Rear Wall | Steel Plate with Colored Pattern Left / Right Plate - (SNA-7); Middle Plate - (SNW-1) |

+ Mirror Plate Stainless Steel Decorative Strip

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Car Design - H2 **Classical Collection** Character Extraordinary · Gradation Apparent

Ceiling

Main Frame Steel Plate with Baked Painting (1-51) Matching with Creamy White Acrylic 5 partitions Inside Width ≧ 1400mm 3 partitions Inside Width < 1400mm Warm LED Lighting Lignting

Floor

Wood Grain Floor Tile : (8TF) Frame : (8TE)



Car Fror Side Rea



Wall Panels

| r Door | Steel Plate with Colored Pattern (A111) |
|----------|--|
| ont Wall | Stainless Steel Plate with Hairline Finished |
| e Wall | Steel Plate with Colored Pattern (A111) |
| ar Wall | Steel Plate with Colored Pattern (A111) |
| | + Decorative Strip (SNW-9) |
| | |



Ceiling



Steel Plate with Baked Painting (J147)

Spherical Creamy White Acrylic

Milky White Acrylic Plate

Warm LED Lighting



CH12

Main Frame Steel Plate with Baked Painting (1-51) Matching with Milky White Acrylic Plate Lighting Warm LED Lighting



CH10

CH5

Main Frame Middle Plate

Side Plates Lighting

Main Frame Steel Plate with Baked Painting (J161) Left/Right Steel Plate with Baked Painting (1-30) Lining White Wood Grating and Rice Paper Acrylic Lighting Warm LED Lighting

CH18

Main Frame Steel Plate with Baked Painting (1-51) Matching with Milky White Acrylic Plate 3 partitions Inside Width > 1100mm 1 piece Inside Width ≧ 1100mm Lighting Warm LED Lighting



VIP01 Option Main Frame Titanium Steel Plate (TK-ED-011) Mirror Brown Anti-Fingerprint Plated Titanium Steel Plate

Inner Side Outer Side Lighting

A2 Option

Light

Titanium Steel Plate (TK-ED-003) Main Frame Mirror Black Anti-Fingerprint Plated Titanium Steel Plate Central light source covered with mirrorpolished stainless steel panels with holes Energy-saving Warm LED Lighting Inside Width ≧ 1300mm Size Limits Inside Depth ≧ 1250mm

Handrail

Matching with diverse styles and tastes of different constructions A brand-new visual feast with an ingenious touch

NR-108

Stainless Steel inlaid with Solid Wood (imitation walnut) Diameter: $38mm \Phi$ Optional for Antibacterial Material 🛈

NR-112 Stainless Steel inlaid with Solid Wood (imitation sen) Diameter: 38mm Φ Optional for Antibacterial Material 🛈

NR-125 Stainless Steel inlaid with Genuine Leather Diameter: 38mm Φ

19 This information in this catalogue is subject to change without notice.

Milky White Acrylic Plate

White LED Lighting

Transparent Acrylic Decorative Strip

H2

Steel Plate with Baked Painting (1-51) Main Frame Matching with Creamy White Acrylic 5 partitions Inside Width ≧ 1400mm Inside Width < 1400mm 3 partitions Lighting Warm LED Lighting





The design is sharp and straightforward, focusing on the texture

• For Wheelchair Use Indicator



BL-C2

BL-CE

(Touch button)

(Not Optional for Accessible Elevator)

L-51

***** Ŀ. Ð DIG-C2





HF-LM5





Entrance Design







| Door Panel | Steel Plate with Colored Pattern (A111) |
|------------|--|
| Hall IND | FOX LED |
| Jamb Frame | Narrow Type Stainless Steel with Hairline Finish |
| Sill | Extruded hard aluminum |

| Door Panel | Center-opening Doors Stainless Steel with Hairline Finish Option | | | |
|------------|---|--|--|--|
| Hall IND | FOX LCD Option | | | |
| Jamb Frame | Narrow Type Transom Attached Option Stainless Steel with Hairline Finish | | | |
| Sill | Extruded hard aluminum | | | |

| Door Panel | Center-opening Doors Stainless Steel with Option Hairline Etching Finish (HJ-313) | | | | |
|------------|---|--|--|--|--|
| Hall IND | FOX BL Option | | | | |
| Jamb Frame | Wide Type Option Transom Attached Option Stainless Steel with Hairline Finish | | | | |
| Sill | Extruded hard aluminum | | | | |
| Light | L-63 Option | | | | |



| Door Panel | Titanium Steel Plate Option with Hairline Finish (TK-ED-012) | | | | |
|------------|---|--|--|--|--|
| Hall IND | FOX BL Option | | | | |
| Jamb Frame | Wide Type Option Stainless Steel with Hairline Finish | | | | |
| Sill | Extruded hard aluminum | | | | |
| Light | L-61 Option | | | | |

Dimensions of Entrance

Narrow-Type



B-B Section



Wide-Oblique Optional





A-A Section

The specifications defined in this catalog are only for reference. Please get in touch with our company when planning a building. 28

Wide Type - with Transom Optional







Note :

- 1. If the transom is attached with a floor indicator, the minimum jamb height should be above 2450mm.
- 2. The height of the jamb is limited by the material, up to 3000mm.
- 3. The hole size for the hall indicators depends on the type of indicator.

Machine Room-Less Electrical Layout



Structural Load of Bottom of Machine-Room-Less RAIL The counterweight (KG) of the rail bottom are as follows:

| Passenger | Rated Speed (m/min) | RC1(KG) | Car Side RC2(KG) | RC3(KG) | RW1(KG) | CWT Side RW2(KG) | RW3(KG) |
|--------------|------------------------|----------------------|----------------------|----------------------------------|----------------------|----------------------|----------------------------------|
| 8 (550) | 45 60 90 105 | 2800 | 2800 | 6000 7800 7300 8500 | 4500 | 4500 | 5100 6600 6200 7300 |
| 9 (600) | 45 60 90 105 | 2900 | 2900 | 6200 8000 7500 8800 | 4600 | 4600 | 5200 6800 6300 7400 |
| 10 (700) | 45 60 90 105 | 3000 | 3000 | 6700 8700 8100 9500 | 4800 | 4800 | 5500 7200 6700 7900 |
| 11 (750) | 45 60 90 105 | 3100 | 3100 | 6900 8900 8300 9800 | 4900 | 4900 | 5700 7300 6800 8100 |
| 12 (800) | 45 60 90 105 | 3100 | 3100 | 7100 9200 8600 10100 | 5000 | 5000 | 5800 7500 7000 8300 |
| 13 (900) | 45 60 90 105 | 3300 | 3300 | 7600 9800 9200 10800 | 5200 | 5200 | 6100 7900 7400 8700 |
| 15 (1000) | 45 60 90 105 | 3400 | 3400 | 8100 10500 9800 11500 | 5400 | 5400 | 6500 8400 7800 9200 |
| 17 (1150) | 60 90 105 120 | 5800 | 5800 | 14800 13700 16100 15900 | 6200 | 6200 | 13400 12000 14100 14000 |
| 20 (1350) | 60 90 105 120 | 6100 6100 6200 | 6100 6100 6200 | 16000 14900 17500 17300 | 6500 6500 6700 | 6500 6500 6700 | 14300 12800 15000 15000 |
| 24 (1600) | 60 90 105 120 | 6600 | 6600 | 17500 16200 19100 18900 | 7000 | 7000 | 15300 13700 16100 16000 |





8-15 passengers

17-24 passengers

Hoistway Dimension

Suspension*

Hoistway Layout



| Ρ | 8- | 1 | 5 |
|---|----|---|---|
| | | | |

| unit : mm | | | | | | |
|----------------------|---------------------------------|------|------|------|------|--|
| Number of Persons | Rated Speed (m/min) Items | 45 | 60 | 90 | 105 | |
| P8-15 | Overhead High (OH) | 4300 | 4300 | 4550 | 4700 | |
| | Pit Depth (P) | 1600 | 1600 | 1850 | 2150 | |
| P17-24 | Overhead High (OH) | 4450 | 4450 | 4650 | 4850 | |
| | Pit Depth (P) | 1650 | 1650 | 1850 | 2150 | |

Note:

1. If the dimensions do not match with each other, please contact our Sales Department. 2. The dimensions listed above do not include the décor finish.



P17-24



P8-15

| Dimension Number of Passengers and Max Load (KG) | а | A | b | В |
|---|------|------|------|------|
| 8(550) | 1100 | 1150 | 1350 | 1525 |
| 9(600) | 1100 | 1150 | 1400 | 1575 |
| 10(700) | 1300 | 1350 | 1350 | 1525 |
| 11(750) | 1300 | 1350 | 1400 | 1575 |
| 12(800) | 1300 | 1350 | 1500 | 1675 |
| 13(900) | 1500 | 1550 | 1450 | 1625 |
| 15(1000) | 1600 | 1650 | 1500 | 1675 |
| 17(1150) | 1600 | 1650 | 1650 | 1815 |
| 20(1350) | 1800 | 1850 | 1700 | 1865 |
| 24(1600) | 2000 | 2050 | 1750 | 1915 |
| | | | | |

Note:

1. The hoistway dimensions (X, Y) are the last ones of construction finish but not include the vertical error of construction.

2. If the stroke is over 30M, the hoistway dimensions (X, Y) should be added by 50mm, respectively.



P17-24

| | | | U | nit : mm |
|------|------|------|-----|----------|
| OP | Х | Y | E | Notes |
| 800 | 1850 | 1720 | 15 | 2P-CO |
| 800 | 1850 | 1770 | 15 | 2P-CO |
| 800 | 1950 | 1720 | 65 | 2P-CO |
| 800 | 1950 | 1770 | 65 | 2P-CO |
| 800 | 1950 | 1870 | 65 | 2P-CO |
| 900 | 2150 | 1820 | 65 | 2P-CO |
| 900 | 2250 | 1870 | 65 | 2P-CO |
| 1000 | 2680 | 2070 | 105 | 2P-CO |
| 1000 | 2780 | 2120 | 155 | 2P-CO |
| 1100 | 2980 | 2170 | 155 | 2P-CO |

3. The specifications defined in this catalog are only for reference. If you need to specify the buildings, please contact our Sales Department.

Electrical Layout

Lighting Equipment: AC1 Φ, 110V, 15A power supply for car lighting, maintenance, and inspection lighting.
 Power Supply: AC3 Φ, 380V, 60Hz

| Load | Rated | Motor | Transformer | FFB | | | | Cables f | or Powe | r Supply | | V | | Minimum | |
|-------------------------|-----------|------------------|-----------------------------|-----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--|
| Capacity KG (person) | Speed | Capacity (KW) | Capacity of Construction | Capacity of Construction | 5.5 | Ma | aximum 14 | Cable Le | ngth (m) | by Cab | le Diame | ter | 200 | Ground Wire Size | |
| | (11/1111) | (1007) | (KW) | (A) | (mm ²) | 1110 0120 | |
| | 45 | 2.6 | 4 | 30 | 70 | 101 | 172 | 260 | 426 | 618 | 902 | 1172 | 1416 | 2 | |
| 8 | 60 | 3.5 | 4 | 40 | 58 | 83 | 142 | 215 | 352 | 510 | 745 | 968 | 1169 | 3.5 | |
| (550) | 90 | 5.1 | 6 | 40 | 42 | 61 | 104 | 157 | 257 | 373 | 545 | 708 | 855 | 3.5 | |
| | 105 | 6 | 6 | 50 | 38 | 54 | 92 | 139 | 228 | 331 | 483 | 628 | 758 | 3.5 | |
| | 45 | 0.0 | 4 | 00 | 70 | 101 | 170 | 000 | 400 | 010 | 000 | 1170 | 1410 | 0 | |
| | 45 | 2.8 | 4 | 30 | 70 | 101 | 1/2 | 260 | 426 | 618 | 902 | 11/2 | 1416 | 2 | |
| 9 (600) | 60 | 3.7 | 4 | 40 | 58 | 83 | 142 | 215 | 352 | 510 | 745 | 968 | 1169 | 3.5 | |
| (000) | 90 | 5.6 | 6 | 40 | 42 | 61 | 104 | 157 | 257 | 373 | 545 | 708 | 855 | 3.5 | |
| | 105 | 6.5 | 6 | 50 | 38 | 54 | 92 | 139 | 228 | 331 | 483 | 628 | 758 | 3.5 | |
| | 45 | 3.2 | 4 | 30 | 60 | 87 | 148 | 223 | 366 | 531 | 775 | 1007 | 1216 | 2 | |
| 10 | 60 | 4.2 | 5 | 40 | 49 | 71 | 121 | 183 | 300 | 435 | 634 | 824 | 996 | 3.5 | |
| (700) | 90 | 6.3 | 6 | 50 | - | - | 88 | 132 | 217 | 315 | 460 | 598 | 722 | 3.5 | |
| | 105 | 7.3 | 7 | 50 | - | - | 77 | 116 | 190 | 275 | 402 | 523 | 631 | 3.5 | |
| | 100 | 7.0 | | 00 | | | | 110 | 100 | 270 | 102 | 020 | 001 | 0.0 | |
| | 45 | 3.5 | 4 | 30 | 60 | 87 | 148 | 223 | 366 | 531 | 775 | 1007 | 1216 | 2 | |
| 11 | 60 | 4.6 | 5 | 40 | 49 | 71 | 121 | 183 | 300 | 435 | 634 | 824 | 996 | 3.5 | |
| (750) | 90 | 6.9 | 6 | 50 | - | - | 88 | 132 | 217 | 315 | 460 | 598 | 722 | 3.5 | |
| | 105 | 8.1 | 7 | 50 | - | - | 77 | 116 | 190 | 275 | 402 | 523 | 631 | 3.5 | |
| | | | | | | | | | | | | | | | |
| | 45 | 3.9 | 5 | 40 | 53 | 76 | 130 | 196 | 321 | 465 | 679 | 883 | 1066 | 3.5 | |
| 12 | 60 | 5.2 | 6 | 40 | 42 | 61 | 104 | 157 | 257 | 373 | 545 | 708 | 855 | 3.5 | |
| (800) | 90 | 7.6 | 7 | 50 | - | - | 75 | 113 | 186 | 270 | 394 | 512 | 618 | 3.5 | |
| | 105 | 8.9 | 8 | 60 | - | - | 65 | 99 | 163 | 236 | 344 | 448 | 541 | 5.5 | |
| | | | | | | | | | | | | | | | |
| | 45 | 4.2 | 5 | 40 | 53 | 76 | 130 | 196 | 321 | 465 | 679 | 883 | 1066 | 3.5 | |
| 13 | 60 | 5.6 | 6 | 40 | 42 | 61 | 104 | 157 | 257 | 373 | 545 | 708 | 855 | 3.5 | |
| (900) | 90 | 8.3 | 7 | 50 | - | - | 75 | 113 | 186 | 270 | 394 | 512 | 618 | 3.5 | |
| | 105 | 9.7 | 8 | 60 | - | - | 65 | 99 | 163 | 236 | 344 | 448 | 541 | 5.5 | |
| | | | | | | | | | | | | | | | |
| | 45 | 4.7 | 5 | 40 | 49 | 71 | 121 | 183 | 300 | 435 | 634 | 824 | 996 | 3.5 | |
| 15 | 60 | 6.2 | 6 | 40 | 39 | 56 | 96 | 145 | 237 | 344 | 502 | 652 | 788 | 3.5 | |
| (1000) | 90 | 9.4 | 8 | 50 | - | - | 69 | 104 | 170 | 247 | 361 | 469 | 566 | 3.5 | |
| | 105 | 11 | 9 | 60 | - | - | 59 | 89 | 146 | 211 | 308 | 401 | 484 | 5.5 | |

Lighting Equipment: AC1Φ, 110V, 15A power supply for car lighting, maintenance, and inspection lighting.
 Power Supply: AC3Φ, 220V, 60Hz

| Load | Rated | Motor | Transformer | FFB Capacity of | | М | avimum | Cables f | or Powe | r Supply | e Diame | ter | | Minimum | |
|-------------------------|------------------|------------------|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--|
| Capacity KG (person) | Speed (m/min) | Capacity (KW) | Construction | Construction | 5.5 | 8 | 14 | 22 | 38 | 60 | 100 | 150 | 200 | Ground Wire Size | |
| | . , | | (KW) | (A) | (mm ²) | | |
| | 45 | 2.6 | 4 | 20 | 283 | 406 | 690 | 1042 | 1707 | 2474 | 3610 | 4690 | 5665 | 2 | |
| 8 | 60 | 3.5 | 4 | 20 | 234 | 335 | 570 | 860 | 1410 | 2043 | 2981 | 3874 | 4678 | 2 | |
| (550) | 90 | 5.1 | 6 | 20 | 171 | 245 | 417 | 629 | 1031 | 1494 | 2180 | 2832 | 3421 | 2 | |
| | 105 | 6 | 6 | 30 | 152 | 217 | 369 | 558 | 914 | 1325 | 1933 | 2512 | 3034 | 2 | |
| | 45 | 2.8 | 4 | 20 | 283 | 406 | 690 | 1042 | 1707 | 2474 | 3610 | 4690 | 5665 | 2 | |
| 9 | 60 | 3.7 | 4 | 20 | 234 | 335 | 570 | 860 | 1410 | 2043 | 2981 | 3874 | 4678 | 2 | |
| (600) | 90 | 5.6 | 6 | 20 | 171 | 245 | 417 | 629 | 1031 | 1494 | 2180 | 2832 | 3421 | 2 | |
| | 105 | 6.5 | 6 | 30 | 152 | 217 | 369 | 558 | 914 | 1325 | 1933 | 2512 | 3034 | 2 | |
| | 45 | 3.2 | 4 | 20 | 243 | 349 | 593 | 895 | 1467 | 2126 | 3101 | 4029 | 4867 | 2 | |
| 10 | 60 | 4.2 | 5 | 20 | 199 | 286 | 485 | 733 | 1201 | 1740 | 2539 | 3299 | 3985 | 2 | |
| (700) | 90 | 6.3 | 6 | 30 | 144 | 207 | 352 | 531 | 871 | 1262 | 1841 | 2392 | 2889 | 2 | |
| | 105 | 7.3 | 7 | 30 | 126 | 181 | 308 | 465 | 761 | 1103 | 1610 | 2092 | 2527 | 2 | |
| | 45 | 3.5 | 4 | 20 | 243 | 349 | 593 | 895 | 1467 | 2126 | 3101 | 4029 | 4867 | 2 | |
| 11 | 60 | 4.6 | 5 | 20 | 199 | 286 | 485 | 733 | 1201 | 1740 | 2539 | 3299 | 3985 | 2 | |
| (750) | 90 | 6.9 | 6 | 30 | 144 | 207 | 352 | 531 | 871 | 1262 | 1841 | 2392 | 2889 | 2 | |
| | 105 | 8.1 | 7 | 50 | 126 | 181 | 308 | 465 | 761 | 1103 | 1610 | 2092 | 2527 | 2 | |
| | 45 | 3.9 | 5 | 20 | 213 | 306 | 520 | 784 | 1285 | 1863 | 2718 | 3532 | 4266 | 2 | |
| 12 | 60 | 5.2 | 6 | 20 | 171 | 245 | 417 | 629 | 1031 | 1494 | 2180 | 2832 | 3421 | 2 | |
| (800) | 90 | 7.6 | 7 | 30 | 124 | 177 | 301 | 455 | 746 | 1081 | 1577 | 2049 | 2475 | 2 | |
| | 105 | 8.9 | 8 | 40 | 108 | 155 | 263 | 398 | 652 | 945 | 1379 | 1792 | 2165 | 3.5 | |
| | 45 | 4.2 | 5 | 20 | 213 | 306 | 520 | 784 | 1285 | 1863 | 2718 | 3532 | 4266 | 2 | |
| 13 | 60 | 5.6 | 6 | 20 | 171 | 245 | 417 | 629 | 1031 | 1494 | 2180 | 2832 | 3421 | 2 | |
| (900) | 90 | 8.3 | 7 | 30 | 124 | 177 | 301 | 455 | 746 | 1081 | 1577 | 2049 | 2475 | 2 | |
| | 105 | 9.7 | 8 | 40 | 108 | 155 | 263 | 398 | 652 | 945 | 1379 | 1792 | 2165 | 3.5 | |
| | 45 | 4.7 | 5 | 20 | 199 | 286 | 485 | 733 | 1201 | 1740 | 2539 | 3299 | 3985 | 2 | |
| 15 | 60 | 6.2 | 6 | 30 | 158 | 226 | 384 | 580 | 950 | 1377 | 2009 | 2611 | 3153 | 2 | |
| (1000) | 90 | 9.4 | 8 | 40 | 113 | 162 | 276 | 417 | 683 | 990 | 1444 | 1876 | 2266 | 3.5 | |
| | 105 | 11 | 9 | 40 | 97 | 139 | 236 | 356 | 584 | 847 | 1235 | 1605 | 1939 | 3.5 | |
| | 60 | 7.9 | 7 | 20 | 104 | 177 | 201 | 455 | 746 | 1091 | 1577 | 2040 | 2475 | 0 | |
| 17 | 90 | 11.6 | 10 | 40 | 97 | 130 | 236 | 356 | 584 | 847 | 1235 | 1605 | 1030 | 25 | |
| (1150) | 105 | 13.6 | 11 | 40 50 | 51 | 100 | 118 | 178 | 201 | 123 | 617 | 802 | 068 | 5.5 | |
| | 100 | 10.0 | | 50 | | | 110 | 170 | 201 | 420 | 017 | 002 | 500 | 0.0 | |
| | 60 | 8.9 | 8 | 40 | 108 | 155 | 263 | 398 | 652 | 945 | 1379 | 1792 | 2165 | 3.5 | |
| 20 | 90 | 13.3 | 11 | 50 | - | - | 118 | 178 | 291 | 423 | 617 | 802 | 968 | 5.5 | |
| (1350) | 105 | 15.6 | 14 | 50 | - | - | 118 | 178 | 291 | 423 | 617 | 802 | 968 | 5.5 | |
| | 100 | 10.0 | 17 | | | | | .70 | 201 | 120 | 017 | UUL | 000 | 0.0 | |
| | 60 | 10.3 | 9 | 40 | 97 | 139 | 236 | 356 | 584 | 847 | 1235 | 1605 | 1939 | 3.5 | |
| 24 | 90 | 15.5 | 12 | 50 | - | - | 118 | 178 | 291 | 423 | 617 | 802 | 968 | 5.5 | |
| (1600) | 105 | 18 | 15 | 75 | - | - | 101 | 152 | 249 | 362 | 528 | 528 | 828 | 5.5 | |
| 1 | | - | - | | | | | | | - | | | | | |

Energy Efficiency

Standard

| Car Call Cancellation | Deregister a mistaken floor by pressing the same floor button twice within 3 seconds. |
|---|---|
| Nuisance Call Cancellation | When the car is vacant, but multiple floor buttons on the operation panel are still registered with signals, the microcomputer system will automatically detect this abnormal state and cancel the registered to save energy. |
| Car Call Cancellation at Reversal | When the elevator changes direction, the system will cancel the previously regis- tered floor, which can avoid invalid stops and save electricity. |
| LED Lighting | Greenlight sources with high efficiency, energy saving, environmental protection, low carbon emission, safety, and durability are applied to replace traditional lighting to save energy consumption. |
| Energy Saving for Floor Indicator | The floor displayer's brightness will decrease to one-third of the regular level to reduce energy consumption when the elevator has been idle for a while. |
| Energy Saving Function | The car lighting and fans will stop running to save energy when the car is vacant for a while and will restart running if there is any calling from other floors. |

Optional

| | Destination Dispatch | Register the destination floor before boarding the elevator, and distribute the passengers to each elevator through AI computing distribution, reduce the number of elevator stops, improve operation efficiency, and shorten the waiting time of passengers. (This function can also link with the access control system) | | Peop |
|--|---|--|---------------|------|
| | Duplex Selective Collective Operation | Two elevators can be linked for the group control operation. | | |
| | FT3X Group Control | | Smar Car-C | |
| | | for a long time. | | |
| | Energy Feedback Device | The regenerative power generated by the Energy Feedback Device can feed back to the building power grid to supply electricity for the building when the elevator runs in light-load upward or heavy-load downward. In addition, the device can return | Desti | |
| | | clean electric energy to achieve green energy-saving benefits. | | |
| | Automatic Bypass Operation (Fully-Loaded Car) | When the elevator car is fully loaded, it will change to an auto-bypass state, executing the car calls only but ignoring the hall calls to improve efficiency. | | FT3X |

Preventive Maintenance

| | Optional | |
|--|---------------------------|--|
| or by pressing the same floor button twice within 3 seconds. | Internet of Things | IoT collects, analyzes, a |
| out multiple floor buttons on the operation panel are still the microcomputer system will automatically detect this cel the registered to save energy. | (IoT) | preventive maintenanc |
| ges direction, the system will cancel the previously regis- roid invalid stops and save electricity. | Artificial Intellige | nce |
| high efficiency, energy saving, environmental protection, ety, and durability are applied to replace traditional lighting tion. | Optional | |
| ghtness will decrease to one-third of the regular level to tion when the elevator has been idle for a while. | Face Recognition | After confirming the pa right to register the floo destination floor. The sy |
| s will stop running to save energy when the car is vacant rt running if there is any calling from other floors. | Tace Recognition | to guide the identified the face recognition ma cation interface) |
| | Voice Car-Calling | Passengers can registe ditional touch button, i |
| floor before boarding the elevator, and distribute the tor through AI computing distribution, reduce the number ve operation efficiency, and shorten the waiting time of on can also link with the access control system) | People Flow Control | The system can autom intelligent group cont service elevators, whic |
| ked for the group control operation. | | waiting and boarding t |
| nall, according to the relative position of each elevator and g signal, calculate the optimal dispatching arrangement, | Smartphone Car-Calling | It uses the APP and Blu floor and quickly comp |
| age waiting time and the probability of passengers waiting | | Log in to the destinatio |
| generated by the Energy Feedback Device can feed back to o supply electricity for the building when the elevator runs neavy-load downward. In addition, the device can return | Destination Dispatch | elevator stops, improv sengers. (This function |
| achieve green energy-saving benefits. | FT3X Group Control | In each car call from the the registered car-calli |
| oring the hall calls to improve efficiency. | r isk droup control | reducing the overall ave for a long time. |

d utilizes elevator data through the network to optimize the n and achieve the elevator functions of intelligent monitoring, , and instant rescue.

senger's identity through the facial recognition system, the r is granted, or the system can directly register to the preset stem can also combine with the Destination Dispatch system passenger to the designated elevator. (The owner provides chine, and Hitachi Yungtay Elevator provides the communi-

the destination floor in the car by voice, replacing the traeducing the risk of germ transmission.

tically detect the number of people waiting in the hall. The ol dispatching system can flexibly increase the number of can instantly evacuate the crowd and shorten passengers' ne.

Tooth from a smartphone or tablet to accurately locate the ete the elevator call and the destination floor registration.

floor before boarding the elevator, and distribute the pasr through AI computing distribution, reduce the number of operation efficiency, and shorten the waiting time of pasan also link with the access control system)

hall, according to the relative position of each elevator and ng signal, calculate the optimal dispatching arrangement, rage waiting time and the probability of passengers waiting

Safety

Standard

| | | | Overload Return | If an external force inter |
|-------|---|---|--|---|
| | | Safety technology invention patent. The braking force detection of the elevator motor is automatically performed daily on a preset schedule. When the braking | Safety Device (ORS) | the specified threshold, safety. |
| | Braking Force Detection System | force becomes weakened, a warning code will be issued to notify the maintenance personnel to take preventive measures. Furthermore, suppose the braking force is insufficient, the elevator will stop service and generate a fault code for the main- tenance personnel to troubleshoot to ensure the brakes' reliability and effectiveness. | Next Floor Landing Function | When the car arrives on as object blocking, the ca Also, when the car canno the door will automatica |
| | Unintended Car Movement Protection (UCMP) | When the elevator door is opened for passengers to enter and exit, the brakes are immediately activated to stop the elevator service once the elevator moves un-expectedly. The elevator will resume regular operation only after maintenance and inspection by professionals. | Low-Speed Safe Landing while Malfunction | If the car has stopped b automatically move to the the elevator will stop ser |
| | Ascending Car | When the elevator goes up, suppose the speed limiter detects that the up speed | Emergency Lighting | In the event of power fa automatically ignite. |
| | Overspeed Protection (ACOP) | exceeds the limit value, it will start the brake to stop the elevator to ensure that it runs safely at the rated speed. | Automatic Return to the Lowest Floor when | For a running elevator, it correct floor, it will be con |
| | Self-rescue System | Safety technology invention patent. The system monitors the car's status when the elevator is in the door-opening zone. If the car is slipping, the computer host automatically outputs the holding torque to keep the car in the door-opening zone, | Abnormal Position | move to the lowest floor resets to the correct floo |
| while | while Car Slipping | immediately opening the door and reminding passengers to leave the elevator. When the car is vacant, the elevator closes the door and runs to the top floor (the | Optional | |
| | | safest position), generating a fault code and stopping service. | Anti-pry Car Doors | Additional automatic do passengers from openin |
| | Infrared Light Curtain | curtain and reopen the door during the closing process, improving passengers' safety. | Automatic Landing Device | In the event of a power f the elevator will automa the car safely, thereby a |
| | Overload Protection | The load inspection apparatus installed on the bottom of the elevator car will send | for Power Faiture (ALP) | elevator during a power |
| | Alarm Function in | Suppose the elevator halts in the non-door-open area due to power failure or malfunction. In that case, the buzzer will alarm to show that the elevator door cannot open because the elevator is not landing in the floor area. Therefore, the | Absolute Positioning System (APS) | The sensor above the el contact way to detect th errors caused by rope slip conditions (such as the p results. In addition, it can protection and check en |
| | Non-door-open Area | area to rescue the trapped personnel. The buzzer will stop alarming when the elevator reaches the door-open area. | Mechanical Safety Shoe | During the door-closing with a person or item, th |
| | Intercom | In the event of an emergency, press the emergency button to communicate with the administrator. | Mechanical Safety Shoe + Ultra-thin Light Curtain | During the door-closing p by the light curtain or col elevator immediately sto of passengers. |

If an external force interferes during the door closing/opening, and this force exceeds the specified threshold, the elevator door will move in the reverse direction to ensure

n the floor but cannot fully open the door for any reason, such car will travel to the next floor and automatically open the door. not successfully close the door due to the object stuck in the sill, cally open repeatedly until the object is removed.

between floors due to equipment malfunction, the car will the nearest floor at low speed and open the door. Meanwhile, ervice when the car is vacant.

ailure, the emergency lighting installed on the car ceiling will

if the floor position judged by the system does not match the onsidered abnormal. At this time, the elevator will automatically r (or the highest floor) at a slow speed and stop. After the system oor number, it can resume normal operation to ensure safety.

poor locking function further protects safety by preventing in-car ng the door and falling into the hoistway.

failure, the device will replace the regular power supply, and natically move to the nearest floor to allow passengers to exit avoiding the situation where passengers are locked in the er failure.

elevator car reads the tape installed in the hoistway in a nonthe current absolute position of the car. Avoid measurement ippage or dynamic rope effects; even unfavorable environmental presence of thick black smoke) do not affect the measurement n increase the functions of upstream and downstream overspeed end-stage deceleration, greatly improving safety.

g process of the elevator, when the door safety shoe collides the elevator will stop closing and reopen the door immediately.

process, if the person or object blocks the infrared rays emitted ollides with the safety shoes at the end of the elevator door, the cops and reopens the closing the door, which doubles the safety

Optional

| Earthquake Emergency Operation | When the earthquake sensor is activated, the running elevator will automatically run to the nearest step and stop service. Simultaneously, "Earthquake Control" will be displayed in the operation panel. | Security Mode | floor button on the ca floor and stand by, a system will automation the elevator a safe ref |
|--|--|---|--|
| Fire Alarm Operation | When a fire occurs, the elevator will automatically run to the refuge floor after receiving the fire alarm signal from the building equipment, allowing passengers to leave the car. | Car Monitoring | The car monitoring de ple, suppose the pass |
| Fire Emergency Operation | When a fire occurs, the elevator will automatically run to the preset fire escape floor through the fire switch and then stop. | | run to the lobby floor through the IoT functi |
| Firefighters' Emergency Operation | When a fire occurs, the elevator will automatically run to the preset floor of the fire escape through the fire switch. After the door opens, the fire-fighters will operate the elevator with a unique key. | Car Disinfection | "Positive and Negative Lamp" provide clean of passengers. |
| Operating by Building Emergency Power | Suppose the building itself has power generation equipment, but only some elevators are allowed to be used. In that case, the elevators can be safely run to the refuge floor (lobby floor) according to the preset sequence, allowing passengers to leave. Finally, one or several elevators are reserved for transportation during a | Non-Contact Button | When moving the fing button signal to call a buttons directly, redu |
| Security | power outage. The elevator will automatically resume operation when the power supply returns to normal. | Emergency Visible System | When an emergency intercom button on th outside the car can al system to ensure the s |
| Optional | After confirming the passenger's identity through the facial recognition system, | Elevator Multimedia Cam System (OPYM4) | It can display the dyn weather conditions o provides passengers w such as audio and vid |
| Face Recognition | the right to register the floor is granted, or the system can directly register to the preset destination floor. The system can also combine with the Destination Dispatch system to guide the identified passenger to the designated elevator. (The owner provides the face recognition machine, and Hitachi Yungtay Elevator provides the communication interface) | Card Reader Interface | Provide contact points in the inner wall panel so cardholders can us |
| Internet of Things (IoT) | IoT collects, analyzes, and utilizes elevator data through the network to optimize the intelligent elevator system and achieve the elevator functions of intelligent monitoring, preventive maintenance, and instant rescue. | Password Call for Specific Floor | For specific floors, su password operation of the elevator after operand then enter the the songers reach the dos |
| Central Control and Monitoring System (YECM) | The YECM system transmits the elevator operation signal in the operation panel to the monitoring computer through digital communication. The administrator can monitor the running status of the elevator, set the running mode, issue control commands, perform statistical analysis of the elevator operation, make reser- | Monitoring and Control System (CCTV) | Through this device, t the elevator car to pre |
| (120%) | vations, and record the faults of the elevator. | Supervisory Panel | The device consists of operation part for elev |
| Smartphone Car-Calling | It uses the APP and BlueTooth from a smartphone or tablet to accurately locate the floor and quickly complete the elevator call and the destination floor regis- tration. | Interphone System | When an emergency of 3 seconds, and the system of phone numbers care |

When there is an intruder in the home, the user can enter the password through the floor button on the car control panel so that the elevator will move to the non-leveling floor and stand by, and the lighting and fans will continue to run. At this time, the system will automatically notify the service center through the IoT function, making the elevator a safe refuge.

evice can automatically detect the situation in the car. For examsenger falls over or cannot move; the elevator will automatically to open the door, sound an alarm, and notify the service center cion to minimize the damage of an accident.

re Ions Air Purifier," "Antibacterial Handrail," and "UV Germicidal space for the elevator and additional protection for the health

ger toward the button within 1 cm, passengers can trigger the a car by induction. As a result, passengers do not need to press ucing the risk of germ infection.

occurs in the car, passengers can press the emergency video he car's control panel to communicate with the outside. People lso know the situation in the car in real-time through the visual safety of passengers.

namic position of the elevator and import information such as or financial stock markets through the Internet. In addition, it with real-time and valuable information and can provide functions deo advertisements and electronic announcements.

is for card reader machines in elevator halls or cars, reserve holes ils of the car, and assist in the installation of card reader machines se the elevator.

ich as private residences and storage rooms, the owner can set control after following specific steps and require personnel to call erating the password. First, press the button of a specific floor, aree-digit password. Only when the password is correct can passignated floor.

the superintendent of the building can observe the situation in event the occurrence of crimes.

a display part for monitoring the running status of the elevator, an vator operations, and an intercom for communication with the car.

occurs in the car, press the emergency call button for more than stem will dial the preset outside line to ask for help. (six groups in be preset)

Operating Functions

Standard

| Sonic Car Button | When the passenger presses the hall control panel button, the button lights up with a response sound of "beep." The door will reopen if the button is pressed again during the door-closing process. |
|--------------------------------------|--|
| Inspection Operation | Start this function during elevator maintenance, and the elevator will run at a low speed. |
| Adjustable Door Opening Time | Depending on the number of people using the elevator on each floor, the owner can adjust the duration of the door opening freely. |
| Extended Door Opening Time Button | Pressing the door opening button can extend the elevator door opening hold time. |

Optional

| Out-of-Service Operation | For building management needs such as nights and holidays, the elevator needs to be parked; or when the elevator demand is low, the elevator is called back to the parked floor and stopped to save energy. |
|---|---|
| Attendant Operation (ATT) | Department stores and other crowded places can provide passengers service through elevator attendants. |
| VIP Operation | This operation provides a way to service the VIPs. Under this operation, the elevator will only respond to car calls but ignore hall calls. |
| Scheduled automatic stop/start management | Through the time setting of the timer, the elevator can automatically stop and start running within the preset time. |
| Signal Registration through Switch Key | On a specific floor, the switch key is used to replace the hall operation button to register the car call signal. |
| Non-Service for Specific Floor | Through the non-stop switch, the elevator can directly terminate the service of a specific floor. |
| Auxiliary Car Operating Panel | In addition to the primary car operating panel, install another operating panel to assist the floor register. |
| Extended Door Opening Time Through Accessible Operating Panel Calling | The door opening time of the elevator can be extended when passengers register the car call signal from the accessible operation panel (including the car panel and the hall panel). |
| Independent operation (For group management) | A designated elevator can be temporarily separated from the group control system and used as an independent operating elevator. |

Signal and Display

Standard

| Arrival Lighting in Hall (floor indicator blinking) | As the elevator travels, t flashes, the elevator is a During running: the run direction Before arrival: the butto |
|---|---|
| Arrival Lighting in Car (landing floor button blinks) | The floor button in the c is about to arrive. During running: the runn direction Before Arrival: The butto |

Optional

| Arrival Chime (Electronic) | Electronic bells notify p |
|--|---|
| Arrival Lighting (hall lantern blinks) | The hall lantern flashes |
| Speech Synthesis (floor landing notice) | The female-friendly void voice synthesizer. |
| BGM Broadcast | The broadcast device of broadcast in the car. |

Other Functions

Standard

| Hall Indicator Inspection | The boarding indicators indicators through the o |
|------------------------------|--|
| Elevator Door Stop Switch | The elevator door stop sw Maintenance personnel c |
| Running Time Display | Through the maintenance |

- the directional arrows begin to flow. When the building name about to arrive.
- ning direction arrow moves with the running
- on of the elevator.
- on and the floor number flash.

car will flash to notify passengers in the car that the elevator

- ining direction arrow moves with the running n of the elevator.
- on and the name of the building flash.

assengers that the elevator is about to arrive.

to notify passengers that the elevator is about to arrive.

ce is used to broadcast station announcements through the

f the building can be directly connected to the car and

on each elevator floor can quickly screen out damaged peration and inspection of maintenance personnel.

witch is installed in the operation box of the car operation panel. an carry out daily maintenance work by using this switch.

ce mobile phone to check the running time of the elevator.

Purchase Information and Excluded constructions

Our Company will charge the design, manufacture, and installation of the elevator. However, any items listed as follows do not include in the elevator quotation. As a result, please entrust other contractors about construction or electricity engineering to handle these parts.

Purchase Information >

Please provide the information as follows when purchasing the elevator or inquiring about the related specification

- 01. Construction Name
- 02. Construction Site Location or Address
- 03. Elevator Dimensions (passenger or weight load, rated speed, door opening measure, and control measure)
- 04. Number of Elevator Installations
- 05. Number of Landing Floors and Height of Each Floor
- 06. Power Supply Voltage and Frequency.
- 07. Car, Hall Fixtures, and Design.
- 08. Architectural Drawing for Elevator Installation Desired (steel structure of the whole building is necessary)
- Due Date in Expectation (should there be any other questions, please contact us, we will answer and explain to you as soon as possible.) 09.

Excluded Constructions

I. Hoistway

- 01. The construction of the hoistway is based on the drawings provided by Party B. It includes the entrances and exits of each floor, the preserve holes for buttons and indicators, and the caulking of the door frame after installation.
- 02. If the hoistway is of steel structure or light partition wall, support beams and columns for fixing guide rails, door frames, buttons, indicators, and other equipment; and primary iron parts for intermediate beams and reinforcing beams.
- 03. Piping and wiring work for emergency telephones or other equipment (such as monitors, remote monitoring systems, monitoring panels, multimedia, card reader machines and fire alarm switchboards) from the hoistway to the guard room (or administrator room, monitoring room)
- 04. Suppose the elevator entrance and exit doors have fire prevention functions. In that case, the piping and wiring work from the fire alarm reception switchboard to the elevator recall button to the evacuation level, and reserve a no-voltage A contact on the fire alarm reception switchboard.
- 05. Waterproof and drainage work for pits and concrete foundation works for buffers.
- 06. Primary side power supply equipment (including power supply, car lighting power supply, independent grounding system, switch, and the power receiving panel) and the piping and wiring project of leading the power supply to the hoistway.

II. Others

- 01. Before the elevator enters the site for construction, the surrounding of the hoistway should be truly closed, and party B should install related guardrail protection equipment at the entrances and exits of each floor. If the hoistway is a glass curtain or cannot be reliably closed due to other factors, party B should provide other anti-fall measures (such as guardrails, safety nets, and other anti-fall measures). Party B must clear sundries such as formwork, wooden strips, safety nets, and steel bars in the machine room and the hoistway (if this item is not completed, due to the safety of the operation, personnel will not be dispatched to the site for construction).
- 02. After the machine parts are delivered to the construction site, party B should provide a storage place for the goods and tools. However, if the installation cannot be performed due to the reasons of Party A, the responsibility for keeping the machine parts shall be responsible to Party A.
- 03. After unpacking and installing the goods, Party B shall dispose of them at the designated place. Party A shall be responsible for clearing and transporting them to the construction site.
- 04. Party B shall provide the cement, sand and gravel, water, and electricity required in the construction and the power supply for installation and operation consistent with the official electricity consumption.
- Party B shall provide the height reference line of the elevator entrance and exit and the complete reference line of the elevator wall as the 05. basis for the elevator installation.

Related Regulations

National Standards of the Republic of China

- 01. Elevators for personal residences are suitable for the construction and inspecti in personal residences in low-rise buildings below five floors. They are not su
- 02. For machine-roomless elevators, the main switch of the power receiving panel the controller, which must be easy to operate and safe.
- 03. When using emergency elevators, backup power should provide. Furthermo the lift for emergency use shall comply with the provisions of the building's relevant regulations. Besides, it should respect the indication of letter No. 8 Agency, Ministry of the Interior. It stipulates that "emergency elevators should machine for riding."
- 04. Piping and wiring unrelated to the elevator shall not install in the hoistway.
- 05. There should be no water leakage in the elevator pit, and it needs to clean.
- 06. The bottom plate of the elevator pit should be able to withstand the fully-loa
- 07. The hoistway and the inner wall of the elevator pit should be flat and smoo
- 08. Each hoistway must be completely closed except for the openings of entrance equipment.
- 09. When any part of the lower part of any hoistway is used for human use or sim devices must also be installed on the counterweight side compared to the ca
- 10. Except for the car and its attached equipment, no objects shall install or set u appropriate space shall be set aside to keep the car safe.
- 11. Except for the entrance door and ventilation holes, the hoistway should be encl structure and have sufficient strength to support the guide rails of the car and
- 12. The pit below the ground should be of waterproof structure, and appropriate maintain safe operation. Since there may be other users on the ground direct of the pit should have sufficient safety strength to resist any impact from the
- 13. The beam or floor supporting the elevator should be able to bear the total w
- 14. The elevator shall be equipped with a device to land on the nearest floor w

Excluded Constructions

According to the following laws and regulations, elevator equipment must obtain a use permit before it can use. Furthermore, in line with the rules of the competent authority, Party A needs to submit a copy of the construction license and other relevant documents, while Party B can submit an application for completion inspection to the professional inspection unit on behalf of Party A :

- 01. After the installation of the elevator equipment is completed, it is not allowed to use it unless it has passed the completion inspection and obtained the use license.
- 02. The administrator shall entrust a professional manufacturer to be responsible for the maintenance of the elevator equipment. Technicians shall implement it monthly according to the general maintenance procedures.
- 03. Unless the owners have obtained a use permit after completing the inspection, the building elevator and mechanical parking equipment shall not be used.

| a (CNS) and relate | d regulations |
|---|---|
| ion of vertical lifts used | [CNS14328.1] |
| Ishould be located near | [CNS2866 4.4.2. (1)] |
| re, the building structure of technological rules and 904590 of the National Fire d not equip with car readers | [CNS2866 4.1.2. (4)] |
| | [CNS2866 4.1.9. (11)] |
| | [CNS2866 4.1.10. (1)] |
| aded car or counterweight. | [CNS2866 4.1.10. (11)] |
| th without any protrusions. | 【CNS2866 4.1.10. (12)】 |
| es and exits and ventilation | [CNS2866 4.1.10. (14)] |
| nilar use, emergency safety r. | [CNS2866 4.1.10. (21)] |
| ip in the hoistway. Also, | [Article 110-1 of the Architectural Equipment of Building Technical Regulations] |
| losed walls with a fire-proof | [Article 110-3 of the Architectural Equipment |
| d counterweight. | of Building Technical Regulations】 |
| space should be reserved to | [Article 112-1 of the Architectural Equipment |
| y below the pit, the bottom car. | of Building Technical Regulations】 |
| eight of the elevator. | [Article 118 of the Architectural Equipment of Building Technical Regulations] |
| hen a power failure occurs. | [Article 110-6 of the Architectural Equipment of Building Technical Regulations] |
| | |
| | |

[Article 3 of the Certificate of Administrative Regulations on Installment and Inspection of Elevator in Building [Article 4 of the Certificate of Administrative Regulations on Installment and Inspection of Elevator in Building [Article 77-4 of Building Act]

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