

EAECL Home Lift

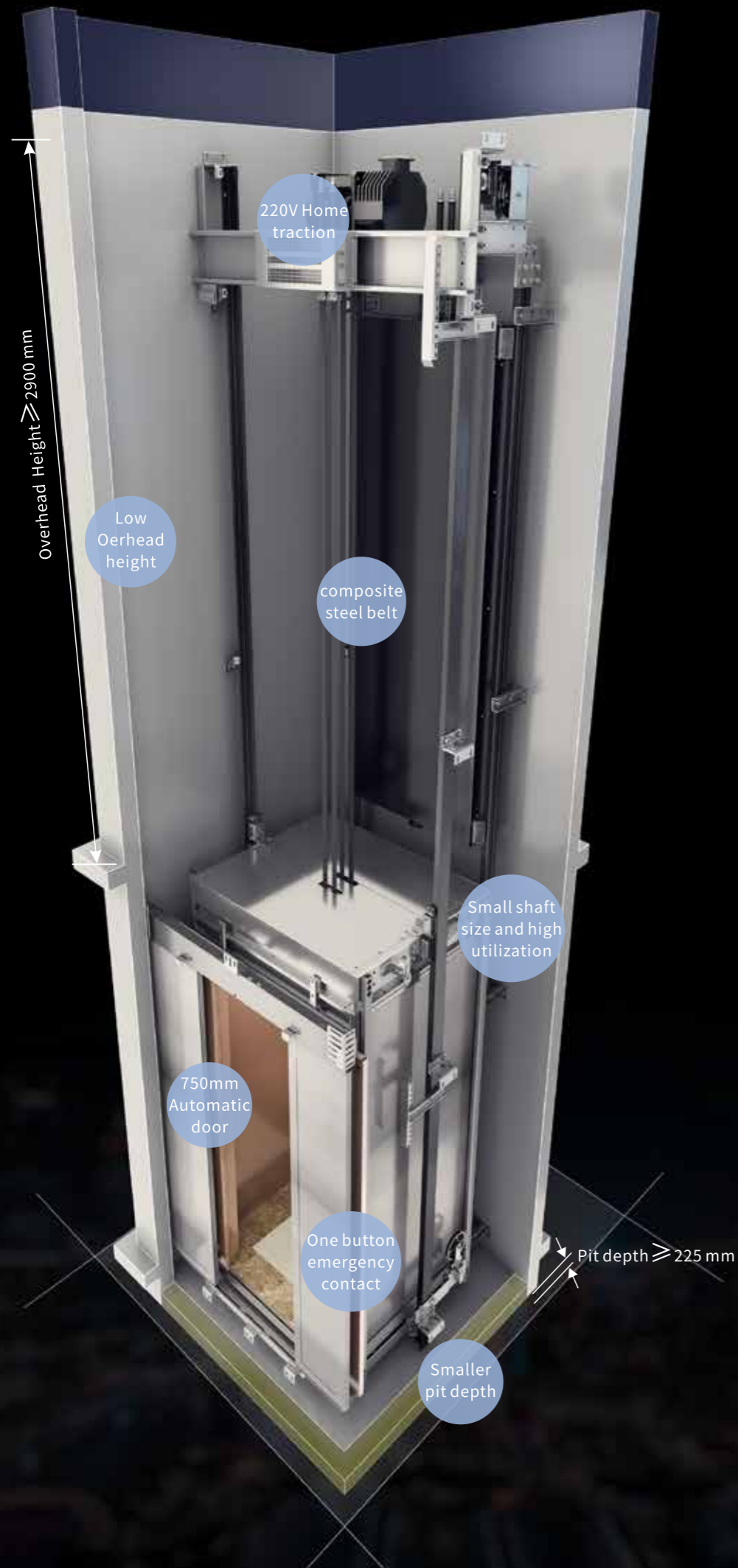
EAST AFRICAN ELEVATOR CO LIMITED

🏠 22 Factory Street, Industrial Area.
P.O Box 20014 - 00200 Nairobi, Kenya

☎ +254 738 86 50 72

🌐 info.ke@eaecl.net





Advantages of EAECL Home Lift

Space Saving, Flexible Layout

Smaller shaft size, Flexible layout

Shaft utilization is higher. Rear counterweight or side counterweight can be arranged to meet the needs of wide shaft and deep shaft, and the occupied space is smaller, indoor and outdoor layout are flexible.

2900 mm
The Minimum Overhead Height

225 mm
The Smallest pit depth

Lower overhead

The elevator overhead can be as low as 2900mm, which can meet the general construction requirement of home lift and not compete the height with

Smaller pit depth

The pit depth only needs 225mm, does not affect the foundation of house and requires no additional construction cost.

Human Design, Details Care

Composite steel belt

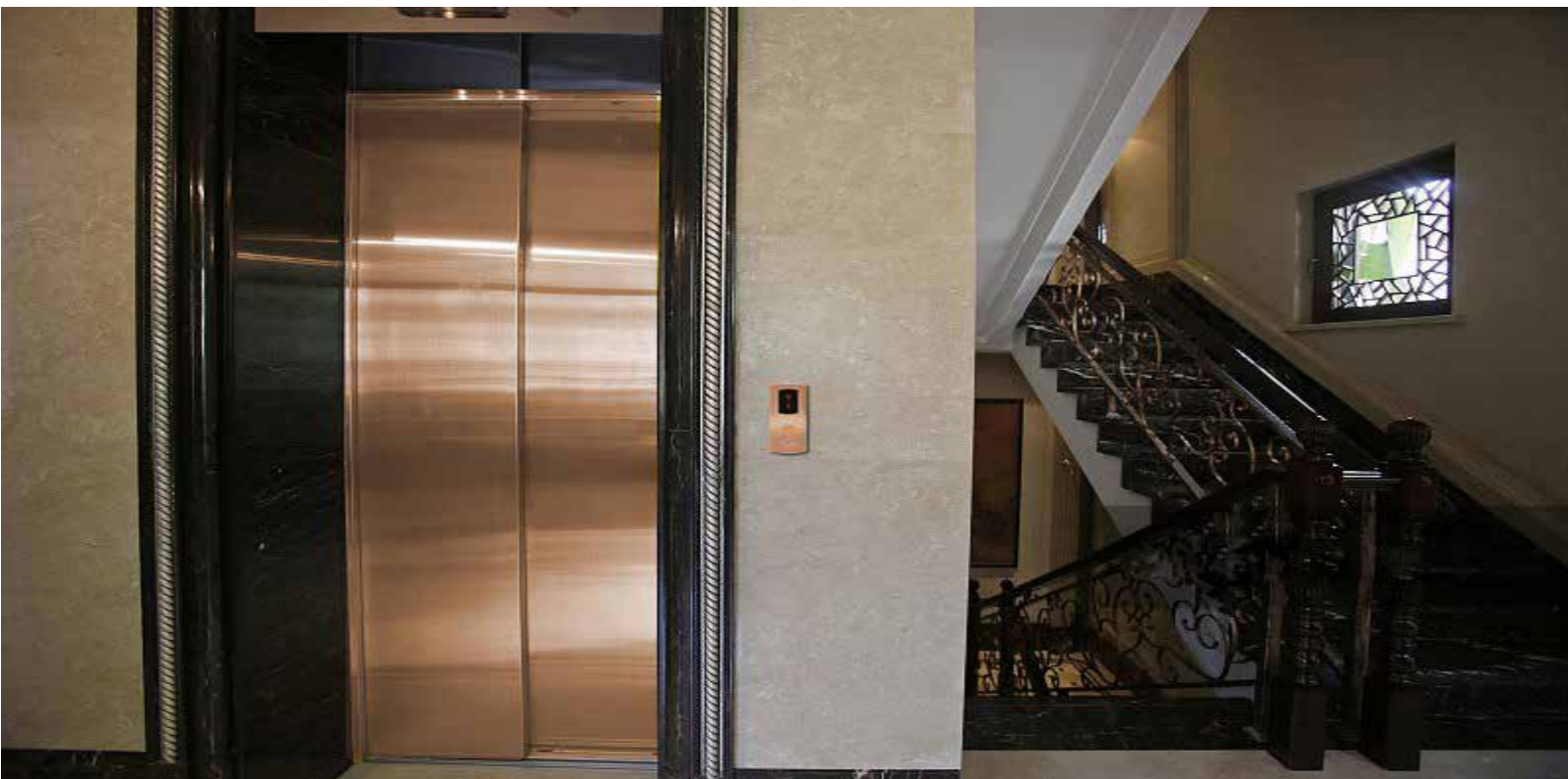
The composite steel belt has a service life of 2-3 times more than traditional wire rope. Polyurethane material covers the outer layer, with low running noise, no lubrication and more environmental friendly.

750mm Automatic door

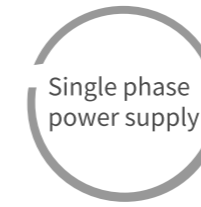
To meet requirements of wheelchair, easy to enter and exit.

Independent shaft structure(Optional)

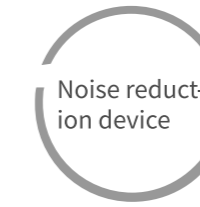
The independent shaft structure can be delivered together with the elevator according to actual shaft condition. Users do not need to choose other shafts by themselves, which can reduce the installation cost and shorten the installation time.



Efficient Energy Saving, Environmental-friendly



Single phase power supply



Noise reduction device

Intelligent control system, more energy saving

IFE responds to the needs of environmental protection. When the elevator is not being used, the intelligent control system will switch the lighting and ventilation to the standby mode automatically.

Environment friendly drive system, power consumption reduction up to 45%

Creatively selecting permanent magnet synchronous tractor as driver to improve the operation efficiency, low starting current, small size, low noise. Compared with traditional hydraulic driven elevator and forced driven elevator, it saves energy 40 ~ 45%, reduces noise 5 ~ 10dB(A).

TüV certified control system without contactor makes the operating noise less than 45dB, allowing you to enjoy a quiet life at home.

Safe Escort Human Experience

Intelligent maintenance, safety inspection

Full detecting and implementing protection during elevator operation, intelligent safety system records failures accurately and informs the fault code to improve the efficiency of maintenance and facilitate maintenance personnel.

One-button Emergency Solution

When pressing the car emergency button, the system will call the designated mobile phone of maintenance, family and friends. The security is completely assured.

Intelligent light curtain protects each of your family member

Adhering to the "safety-oriented" design concept, a dense infrared cross-light curtain is formed at the entrance of elevator to protect the safety of passengers. It is especially suitable for children and the elderly.

No trap on power failure, smooth elevator ride

After power blackout, the Automatic Rescue Device will start automatically to deliver passengers to the nearest floor, eliminating passengers' fear and discomfort.

Automatic Intelligent Rescue

When the power supply is normal, if the elevator breaks down, the system will automatically analyze and skip the failure (except for safety circuit, door lock circuit failure), and give priority to evacuate people when they reach the nearest floor at low speed.

Ultrathin Control Panel



Compact control panel



Mini S

Product Features

- Ultrathin design, integrated and dual-purpose (Split & Integrated). It can be installed hidden, allowing you to have a more exquisite and beautiful elevator
- TÜV certified contactless control system makes the operating noise less than 45dB, allowing you to enjoy a quiet home life
- Excellent home lift driving technology completely solves the problem of comfort and creates the most comfortable and pleasant riding experience when taking elevator
- It has SIL3 level safety certification, Integrating multiple schemes to prevent trapping passengers, so that you can rest assured inside and outside.

Decoration Configuration

Car Standard Configuration



CAR90-02

Ceiling C62-05(Rose Gold Mirror Stainless Steel + Ultrathin Ceiling lamp)
 COP COP43-04(Rose Gold Hairline Stainless Steel)
 Car Wall CW03-05(Front Wall & Rear Wall: Rose Gold Mirror Stainless Steel / Side Wall: Rose Gold Hairline Stainless Steel)

Car Door L01-08(Rose Gold Mirror Stainless Steel)
 Floor F02-06(Marble)

Note: If there is a slight difference between the physical objects and the effects. The final interpretation right belongs to IFE.

Car Optional Configuration



CAR90-03

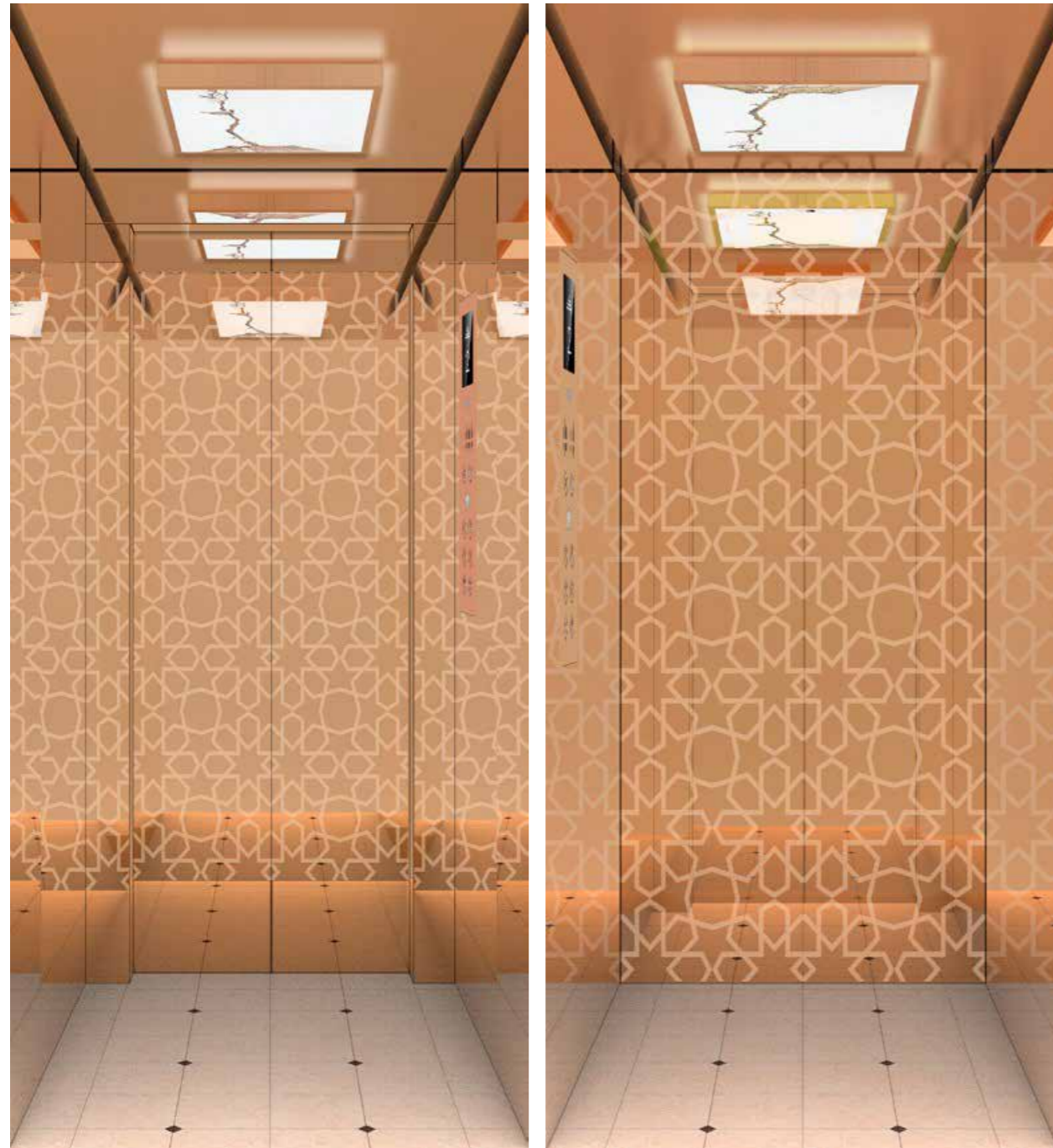
Ceiling C65-05(Rose Gold Mirror Stainless Steel Etching+ LED Ceiling light)
 COP COP38-06(10.4 inch touch screen/Rose Gold Mirror Stainless Steel)
 Car Wall CW04-10(Middle: Rose Gold Mirror Stainless Steel Etching/ Two Sides: Rose Gold Hairline Stainless Steel)

Car Door L01-08(Rose Gold Mirror Stainless Steel)
 Floor F02-11(Marble)

Note: If there is a slight difference between the physical objects and the effects. The final interpretation right belongs to IFE.

Decoration Configuration

Car Optional Configuration



CAR90-04

Ceiling	C61-05(Rose Gold Hairline Stainless Steel + Antique Ceiling Lamp)	Car Door	L03-15(Rose Gold Mirror Stainless Steel)
COP	COP43-05(10.4 Inch Touch Screen/Rose Gold Mirror Stainless Steel)	Floor	F02-07(Marble)
Car Wall	CW04-09(Front Wall & Side Wall: Rose Gold Mirror Stainless Steel Rear Wall : Rose Gold Mirror Stainless Steel Etching)		

Note: If there is a slight difference between the physical objects and the effects. The final interpretation right belongs to IFE.

Car Optional Configuration



CAR99-21

Ceiling	C63-03(Mirror Stainless Steel+Ultrathin Ceiling Lamp)	Car Door	L04-04(Rose Gold Mirror Stainless Steel +Safety laminated glass)
COP	COP43-05(Rose Gold Mirror Stainless Steel)	Floor	F02-09(Marble)
Car Wall	CW06-01(Front Wall & Side Wall: Rose Gold Mirror Stainless Steel Rear Wall : Craft glass)		

Note: If there is a slight difference between the physical objects and the effects. The final interpretation right belongs to IFE.

Decoration Configuration

Car Optional Configuration



CAR207

Ceiling C57-01(Mirror Stainless Steel+LED Ceiling light)
 COP COP43-00(Hairline Stainless Steel)
 Car Wall CAR207(Front Wall/Two Sides:Hairline Stainless Steel
 Rear Wall: Mirror Stainless Steel)

Car Door L01-00(Hairline Stainless Steel)
 Floor F02-06(Marble)

Note: If there is a slight difference between the physical objects and the effects. The final interpretation right belongs to IFE.

Decoration Configuration

Car Optional Configuration(panaramic)



CAR90-20

Ceiling	C57-01 Mirror Stainless Steel+LED Ceiling Light
COP	COP500-01 13 inch touch screen/white faceplate
Car Wall	CAR90-20 Front wall: Mirror Stainless Steel Side/Rear Wall: Champagne gold aluminum alloy frame+ Safety laminated glass
Car Door	L06-00 Champagne gold aluminum alloy frame+ Safety laminated glass
Floor	F02-00 Marble
Hop	HOP506 Acrylic faceplate+ Zinc Alloy frame
Landing Door	L06-00 Champagne gold aluminum alloy frame+ Safety laminated glass
Opening	Central Opening

Shaft Structure

Glass Optional Color:



Aluminum alloy optional color:



Black aluminum alloy shaft
+Transparent glass



Champagne gold aluminum alloy shaft
+Brown glass



Silver aluminum alloy shaft
+Ford blue glass



White aluminum alloy shaft
+Jewelry blue glass

Decoration Configuration

Landing Door Decoration Standard Configuration+ Optional Configuration



Standard Configuration

L01-08

Door Panel: Rose Gold Mirror Stainless Steel
Door Jamb: Rose Gold Mirror Stainless Steel



Optional Configuration

L04-05

Door Panel: Rose Gold Mirror Stainless Steel
+Safety laminated glass
Door Jamb: Rose Gold Mirror Stainless Steel



Optional Configuration

L03-15

Door Panel: Rose Gold Mirror Stainless Steel
Etching
Door Jamb: Rose Gold Mirror Stainless Steel



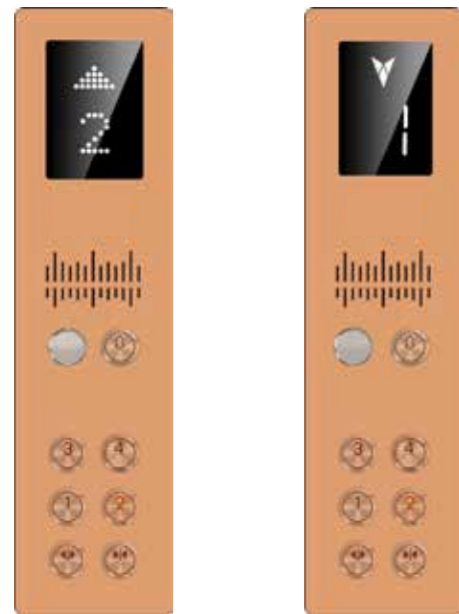
Optional Configuration

L06-00

Door Panel: Champagne gold aluminum steel frame
+Safety laminated glass

Decoration Configuration

COP



COP43(Standard)

COP42(Optional)

COP43/ COP42
· Size: 170*690*55 (W*H*D)
· Flush mounted, Push button
· Dot-matrix or segment display
· Emergency button
· Stainless steel faceplate



COP38-06(Optional)

COP38-06
· Size: 245*600*55 (W*H*D)
· Flush mounted, 10.4 inch touch screen
· Voice announcement, multi-media display
· Emergency button
· Stainless steel faceplate



COP500-01(Optional)



COP500-02(Optional)

COP500-01 (White) / COP500-02 (Black)
· Size: 200*350*13 (W*H*D)
· Surface-mounted, 13 inch touch screen
· Voice announcement, multi-media display
· Emergency button
· Black and white faceplate for choosing

Decoration Configuration

HOP

Standard:

Optional:



HOP506

HOP506
· Size: 55*120*15
· Surface-mounted
· Acrylic faceplate+Zinc alloy frame
· Dot-matrix display, touch button



HOP11

HOP11
· Size: 110*320*22
· Surface-mounted
· Stainless steel faceplate
· Dot-matrix display, push button



HOP36

HOP36
· Size: 90*325*17.5
· Surface-mounted
· Glass Faceplate
· Dot-matrix display, push button



HOP37



HOP38

HOP37/ HOP38
· Size: 100*360*20
· Surface-mounted
· Stainless steel +Acrylic faceplate
· Dot-matrix/segment display, push button

Optional:



HOP504-F HOP504-C

HOP504-F/HOP504-C
· Size: 91*230*13.2(W*H*D)
· Surface-mounted, 3.5 inch true color display
· Touch button



HOP503

HOP503
· Size: 80*152*11(W*H*D)
· Surface-mounted, 4.2 inch TFT display
· Touch button
· White on blue, white on black for choosing (Dial setting)



HOP211-01 HOP211-02

HOP211-01/HOP211-02
· Size: φ75*18(Diameter*Thickness)
· Surface-mounted
· Circle color (Blue/Yellow)
· Dual color status indicator, elevator abnormal display red
· High resolution OLED display of floor and direction

EAECL Home Lift Function Table

Basic Function		
Operation Function		
01	Full selective collection	Collect all the calling signals to answer selectively based on the signal control system
02	Car call cancellation	Double click the COP button to cancel the wrong command to achieve car call reset
03	Door open\Close button	Micro buttons on the COP to control the door open\close to that passengers could handle the open\close timing flexibly
04	Torque compensation in start	The system will calculate as per the load in cabin and optimize the torque compensation to give more comfort when the elevator just starts
05	Direct landing function	Micro-computer controller automatically calculate the optimize the speed profile according to the target floor
06	Resume operation in power supply	When the position signal is failed to retain or not sure about the elevator position after a power failure, the elevator would go to the end floor to reposition and be back to normal running
07	Automatic home landing	The elevator would be back to base floor to stand by under automatic condition if there is no calling command within the setting time
08	Door reopening by landing	Push the hop button same as the elevator going direction when the door is closing, then the door will reopen
09	Door open\Close button light	Door\close button light lights up to indicate the successful answer
Safety Functions		
10	Safety loop protection	When the elevator fails, elevator micro-computer control system will report the fault code based on the preset fault code to bring convenience to maintenance staff
11	Fault code storage	The computer would store fault records of elevator and report to manufacturer maintenance staff to take statistical analysis
12	Overload protection	When the car is overload, the overload buzzer will sound alert, at this moment, that door is not closing and the elevator is not working
13	Light curtain door protection	The system forms a dense infrared cross light curtain at the elevator door, which can make a keen response to people or objects entering its detection area, so as to protect passengers from entering and leaving the door safely
14	Door reverse	The door is subjected to a reverse resistance exceeding the preset torque value when it is closing the elevator will reopen
15	Door interlock protection	When the landing door and car door are both in normally closed state, the elevator will operate normally only when the control system judges the elevator is normal
16	Landing zone guard	For safety reason, the car door cannot open in the non-leveling zone
17	Downward over speed protection	Then the downward speed of elevator exceeds a specified speed, the govern will take action and the safety circuit will be cut off while safety gear brakes, then the car stops
18	Upward over speed protection	Then the upward speed of elevator exceeds a specified speed, the govern will take action and the safety circuit will be cut off while the traction machine brakes, then the car stops
19	Reversal movement guard	When the system detects the actual running direction is inconsistent with the specified direction, the car stops immediately and alarms
20	Brake guard	Brake relay signals are being monitored in the entire process. when the brake relay finds the actual state is inconsistent with the specified command, the system will stop the elevator operation
21	Safety torque off	STO safety control technology with international SIL3 certification is adopted to ensure the reliable operation of home lift
22	Speed limited switching at terminals	When the elevator is running to the terminal station and the operation speed is not reduced to a preset value the system will be forced to slow down to ensure the safe operation of elevator
23	Buffer safety protection	When the elevator passes over the terminal floor for any reason, car buffer and counterweight buffer will start the protection and the safety circuit will be cut off in the meantime
24	Micro-computer scanning protection	Before the elevator be back to power after power failure, it would scan input and output points of govern, when finds abnormal state after checking data, the elevator stops running
25	Anti-Locked-Rotor Feature of Motor	If the traction machine does not run due to mechanical jamming when the elevator is starting operating and it exceeds the preset timing, the system will stop the elevator operating
26	Electrical safety loop	The circuit formed by the connection of all electrical safety devices, and the action of any electrical safety device can stop the elevator

Basic Function		
Special Operation		
27	Main floor setting	According to site requirement by setting the main station based on basic parameters, the elevator will return to the preset floor when it exceeds a specified timing without any operation
28	Fire Layer Setting	The fire floor can be set by the fire floor in the basic parameters according to the requirements of the site. When the fire signal is input, the elevator will be lowered to the floor
29	Overhaul and Manipulation of Car Roof	The elevator can be operated at a low speed in the selected direction by pressing the upper, lower and public buttons of the car roof overhaul box. The open and close buttons control the opening and closing of the elevator so as to make the overhaul and maintenance safer and faster
30	Specific Layer Service Functions	According to the customer's needs, whether the elevator stops on a certain floor or not can be set up
Interface		
31	Rolling Direction Display	The control panel in the car and the call box in the hall of each floor are used to display the direction of the elevator, so as to facilitate passengers to understand the current operation status of the elevator
32	Digital Floor Display	On the control panel in the car and the call box in the hall of each floor! Display the floor station of the elevator with dot-matrix LED lamp at any time, so as to facilitate passengers to know the current running position of the elevator
33	Customization of Floor Display	Special floor display fonts can be customized depending on the need
Emergency Function		
34	Emergency light in car	The emergency light device set in the car is enabled in case of power failure
35	Emergency Electricity	When safety forceps, upper limit, lower limit, upward overspeed, speed limiter switch action, emergency electric function can be operated in the control cabinet, so that the elevator slowly up or down, in order to facilitate rapid rescue
36	One-button Emergency Call	Press the emergency button in the car and dial the preset number repeatedly to ensure that the passengers can contact maintenance personnel, relatives and friends at any time (The stability of connection between phones depends on the local signal).
37	Automatic Rescue Operating Device	When the elevator is powered off suddenly in normal operation, the device will move quickly, driving the elevator to run at low speed to the nearest floor, opening the door to evacuate passengers
38	Electric brake release	When the elevator failure cannot be eliminated in a short time, the maintenance personnel can operate the device to make the elevator reach the nearest floor at low speed and evacuate passengers quickly.
Energy Saving Function		
39	Energy saving standby	In the absence of any operation instructions, the elevator will enter the energy-saving mode within the predetermined time after closing the door, closing the lighting and fans in the sedan car
40	Fan Control	Control the on/off of the fan of the car at any time through COP

EAECL Home Lift Technical Parameters

NO.	Spercification	400		
01	Rated capacity(kg)	400		
02	Speed(m/s)	0.4		
03	Control method	Full collective selective		
04	Drive method	VVVF		
05	Door control	VVVF Door controller		
06	Traction machine	Permanent Magnet Synchronous Gearless Motor		
07	Control System	CTRL80 Integrated Controller		
08	Communication method	Serial Communication		
09	Car size(mm) (width*depth*height)	1200*1100*2100 (Single door)	950*1100*2100 (Single door)	1250*850*2100 (Single door)
10	Door opening size(mm) (width*height)	Central Opening(narrow jamb)750*2000	Left Side Opening(narrow jamb)700*2000	Central Opening(narrow jamb)800*2000
11	Shaft size (width*Depth)mm	1600*1545	1350*1615	1800*1100
12	Counterweight arrangement	Rear counterweight		Side counterweight
13	Travel height(TR)	≤18		
14	Motor position	Above the shaft		
15	Overhead(OH) mm	≥2900	≥2950	
16	Pit depth(PD)(mm)	With marble: 225 With PVC: 200		
17	Motor rated capacity(kW)	1.2		
18	Rated current(A)	5		
19	Starting Current(A)	7.5		
20	Power capacity	3.5		
21	Brake voltage	DC110 V		
22	main power supply and minimum power distribution of elevator(per unit)	220V, 50Hz single-phase power supply, refers to the civil layout requirements 2* 2.5m ² copper core sheath cable + 2.5mm ² yellow-green cable		

Note: 1. Maximum area of car= (rated load/250)m²
2. Door height refers to the requirements of civil layout drawings

