



"Made in Fujitec"

Fujitec is Creating and Leading the New Global Standard for Elevators.



By manufacturing safe and reliable elevators in-house, we are building trust with people around the world.

Fujitec's "Global Common Components" are used in the ZEXIA-Hbrand. The quality of components, such as traction machines, elevator controllers, and operating fixtures, is controlled through Fujitec's integrated system of global quality management. Elevators with the same high quality will be provided by Fujitec's global supply chain under the concept of "Made in Fujitec."







Excellent Performance

The permanent magnetic synchronous gearless motors, which have been designed and developed by Fujitec, provide the utmost reliability and excellent driving performance. These motors reflect 73 years of accumulated know-how through our technological achievements in elevator manufacturing, which spans from product designing to fabrication.

Reliable Operation

Since all control-related components, ranging from control circuits to inverters, were independently developed by Fujitec, highly reliable elevator operation is established. In the event of an elevator malfunction, the elevator control system assembled with our components immediately detects the malfunction and maintains efficient and stable operation.

Universal Design

Under our universal designs, aesthetically refined buttons, displays, etc. on elevator operating fixtures are highly visible. Passengers will have a superb and comfortable riding experience.

Styles

Various decoration styles for the elevator interior and landing floors are offered by Fujitec. Customers can select the most suitable decorative materials for car panels, car ceilings, car floorings, car operating boards, and landing fixtures.





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Excellent Performance

Reliable Operation

Gearless Traction Machine with Permanent Magnetic Synchronous Motor

The gearless traction machines with a permanent magnet synchronous motor assure high riding comfort quality and low power consumption. This newly adopted technology reduces the weight and size of a traction machine, because gears are no longer required for elevator speed control.

A Small Machine Results in Space Saving

The machine room space required by our ZEXIA-H elevators is 60 % smaller than that of conventional elevators. This remarkable feature results in a reduction of building construction costs and increases usable space in the building.

Ultra-Slim Door Operator with Permanent Magnetic Synchronous Motor

Fujitec's new door operators have adopted a permanent magnetic synchronous motor which doesn't have any gears for door speed control. The use of this motor reduces the size of a door operator and achieves smooth and precise door operation.

These new door operators consume approximately 35 % less power than conventional ones.

Distributed Control System



A 32-bit data bus provides high-speed and highprecision data transmission of input-output command signals between each microprocessor located in control panels, hall-call / car-call buttons hall indicators and hall lanterns.

High-speed data transfer with multiple protocols enables large-scale data processing at ten times the normal speed. This also improves the ability to monitor elevator running speed, landing precision and operating reliability as well as input-output command signals of car operating fixtures and operation indicators.

The bus system is employed for data transmission between microcomputers located in every hall-call fixture, car operating board, and control panel. This bus system has strong protection against signal interference and has system-extending capability.

An elevator operation system with multiple microcomputers makes maximum use of a "Distributed Control System." Hall indicators, car operating boards, and control panels incorporate high-performance microcomputers. These independent microcomputers analyze elevator operating conditions utilizing self-diagnostic functions and implement immediate control of elevator operations. Also, data transmission buses between microcomputers increase data processing capability.





Car Door Anti Stripping Device

It can prevent passengers from falling into the shaft when the door is opened in the non unlocking area, and further ensure the safety of elevator passengers.



Impact Resistant Door System

The impact resistance of the landing door system is further strengthened, and the risk of falling into the shaft caused by the impact of the landing door system is effectively prevented, further ensuring the safety of elevator related personnel.

FLEX-NX series -Elevator Group Supervisory Control System-

Fujitec has adopted the "Virtual Passenger Optimization Method" as a new elevator group control system. This system controls elevator group operation by virtually calculating passenger waiting time in advance based on past accumulated data, such as passenger travel patterns and passenger volume at each floor. Also, this method comprehensively calculates passenger waiting time based on extrapolated data of probable future passengers, how many passengers will come to a certain floor when a hall call is registered and/or how many passengers will come to a certain floor when no hall call is registered. This comprehensive analysis reflects whole building traffic conditions for efficient elevator operation control as well as reducing daily passenger waiting time by up to 10 %.



*1: The number of days in a single month is assumed as 30 days

*2: Electrical usage might vary depending on site conditions

In addition, ZEXIA-H is small machines require less motor capacity and

1) The maximum number of elevator operations per day: 600 times

→ 19% Energy saving

power consumption compared to conventional elevators

2) The travel distance in a single operation: 30 meters

The differences are shown below

Given elevator operating conditions:

4) The rated load: 1050 kgs.

Required Motor Capacity

Electrical Usage per Month*

496kW/ month^{*2}

610kW/ month

13.6kW

15.0kW

ZEXIA-H Elevator (PMGL) Conventional Elevator (ACGD)

3) The rated speed: 2.0 meter per second

Unintended Car Moveme

Unintended Car Movement Protection(UCMP)

A safety- purpose control circuit independent of the elevator operating system detects unintended movement of a car and prevents the car from moving from the floor with its doors open. This fumction increases passenger safety.





Fujitec's new global-standard operating fixtures reflect the latest in Human Engineering technology. Fixture buttons with clearly visible lettering function as the man-machine interface. Passengers can register their destination in a visually intuitive manner.



Night-Time Self-Checking Operation

- A safety enhancement for increased reliability -

Mechanical brake conditions are automatically checked by moving the elevator during the night time while not receiving any car and hall calls. This night-time self-checking operation increases passenger safety and contributes to a high after-sales product quality.

IONFUL

- Plasmacluster[™]* Ion Generating Device-

(Optional Specification)

Fujitec is the leading elevator company to have installed a Plasmacluster lon generating device in an elevator. This device built in a car's ventilation unit disinfects airborne mold, bacteria, viruses, allergens, and odor molecules as well as creating clean air in the elevator which enhances passenger comfort.

Multi-Beam Sensor

Multi-beam Sensor emits multiple infrared beams, creating an invisible curtain covering the doorway. If any of the beams is interrupted, the closing doors will stop and reopen. This function results in a significantly higher detection rate of a passenger and/or an object in the doorway.

LED Down lights on Car Ceiling

For car ceiling lighting, Fujitec adopts LED downlights, which are long-lasting and energy-efficient. This adoption contributes to the protection of the environment.

	Filament Light Bulb	LED Light Bulb	Improvement Results
Lifetime	approx. 1,500 hours	approx. 20,000 hours	approx. 13 times
Wattage	90 W	9W	1/10 (one-tenth)

VONIC (Automatic Voice Announcement System)

(Optional Specification)

A computerized voice system (English) provides passengers with timely information about car directions, car arrivals, door opening and closing, and emergencies, etc.

[At the customer's request, announcements in other languages can be added.]













STYLES

Standard Car Design





Ceiling: CE-g1 Paint Finished Steel Sheet

Walls, Transom & Door: Paint Finished Steel Sheet

Cross-Flow Fan

Car Operating Board: (FX-h1) Stainless Steel with Hairline

Floor: BD-b2

Sill: Stainless Steel



BD-b1





BD-b4













Ceiling: (CE-e4)	Stainless Steel with Hairline Finish (Frame) Stainless Steel with Mirror Finish (Central)
Walls, Transom & Door:	Stainless Steel with Hairline Finish
Fan:	Cross-Flow Fan
COB:	FX-k11
Floor:	Designed PVC (BD-C1)

Designed PVC (BD-0 Stainless Steel Sill:

Optional Car Design



Ceiling:	Paint Finished Steel Sheet (TE-f1)
(CE-e2)	
Walls, Transom & Door:	Stainless Steel with Hairline Finish
Mirror:	Stainless Steel with Mirror Finish
Fan:	Cross-Flow Fan
Handrail:	HR-a1
WCOB:	FX-g32
Floor:	Designed PVC (BD-C1)
Sill:	Stainless Steel



Optional Car Design



Ceiling:	Stainless Steel with Hairline Finish (Frame)
(CE-e4)	Stainless Steel with Mirror Finish (Central)
Walls: (CR-f2)	
Side Panel:	Steel Panel with Wooden Decorative Plate(Sides) Stainless Steel with Mirror Finish(Centre)
Rear Panel:	Steel Panel with Wooden Decorative Plate(Sides) Patterned Glass + Light Strip (Centre)
Front Panel, Transom :	Stainless Steel with Hairline Finish
Fan:	Cross-Flow Fan
Floor:	Designed PVC (BD-C2)
Sill:	Stainless Steel
Kick Plate:	Stainless Steel with Sandblast Finish
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Optional Car Design



Ceiling:		
(CE-e2)	Stainless Steel with Mirror Finish	
Walls(CR-f1):		
Side & Rear Panels:	Steel Plate with Laminated Sheet(TE-g2)	
Wall's Center Panels:	Stainless Steel with Mirror Finish	
Front Panel, Transom:	Stainless Steel with Sandblast Finish	
Door:	Stainless Steel with Sandblast Finish	
Fan:	Cross-Flow Fan	
Floor:	Designed PVC (BD-b6)	
Sill:	Stainless Steel	
Kick Plate:	Stainless Steel with Sandblast Finish	

Ceiling Design



Color Samples

TE-a7	Ceilings, Car Panels, Car Doors, Landing Doors, and Jambs: Paint
TE-b1	Note: The colors of TE-f1 and TE-f2 are optional. *Actual colors may differ from the images.
TE-b2	
TE-g4 TE-g5	Car Side & Rear Panels: Steel Plate with Laminated Sheet
007 YS-008	Car Panels, Car Doors, and Landing Doors: Stainless Steel with Etching *The dimensions of an actual pattern differ from the images.
026 YS-059	
b3 BD-b4 b7 BD-b8	Car Floor (Vinyl Tile) [•] The scale and color of an actual design differs from the images.

Car Operating Boards







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Faceplate: Stainless Steel with Hairline Finish Indicator: Orange Dot-Matrix LED Buttons: Push buttons

Faceplate: Stainless Steel with Hairline Finish
Indicator: Monochrome LCD Screen (7 inch)
Buttons: Push buttons





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Optional Background



Faceplate: Stainless Steel with Hairline Finish Indicator: Multicolor LCD Screen (7 inch) Buttons: Push buttons

Wall- mounted Type





FX-h41

PURTY

FX-h71



FX-h51



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Standard























Faceplate: Stainless Steel with Hairline Finish/ Aacrylic Resin Indicator: Orange Dot-Matrix LED Multicolor LCD Screen (4.2 inch) Monochrome LCD (4.1 inch) Buttons: Push buttons

Car Operating Boards



Indicator: Orange Dot-Matrix LED Buttons: Push buttons	Faceplate: (S Stainless Stee	Swing Type) el with Hairline Finish
Battonioi	maioatom	Aatrix LED
	Dattonioi	



X -k12

Faceplate: (Swing Type) Stainless Steel with Hairline Finish Indicator: Multicolor LCD Screen (10.4 inch) Buttons: Push buttons

Faceplate: (Swing Type) Stainless Steel with Hairline Finish Indicator: Monochrome LCD Screen (7 inch) Buttons: Push buttons

FX-k13

FUITE

В

10 P(R). 800 kg

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Standard

Optional

Note: FX-k1, FX-k11, FX-k12, FX-k13 might be not available depend on the car size.

Hall Fixtures





Stainless Steel with Hairline Finish
Indicator: Orange Dot-Matrix LED
Multicolor LCD Screen (4.2 inch) Monochrome LCD (4.1 inch)
Buttons:

Push buttons

Faceplate:

FX-g32





Button



 CP-C1

 Type:
 Resin Button(White)

 When Pressed:
 Light Emitting Parts: Ring

 Lighting Color:
 Orange



Type: Stainless Steel Button with Braille Dots When Pressed: Light Emitting Parts: Ring Lighting Color: Orange



CP-C3 Type: Resin Button(White) Braille Dots When Pressed: Light Emitting Parts: Ring Lighting Color: Orange

 Type:
 Stainless Steel Button

 When Pressed:
 Light Emitting Parts: Ring

 Lighting Color:
 Orange

Handrail



HR-a1 Stainless Steel Hairline Plate



HR-b1 & b2 Stainless Steel Hairline Tube/ Stainless Steel Mirror Tube







Landing Design



Group Supervisory Control

Hall Fixtures





Size (mm) L440x W90 x H8 Indicator LED Lighting Color White





FX-k75

Size (mm) L440 x W100 x H14.5

Indicator LCD (4.3 inch) Lighting Color Yellow

FX-k8

Size (mm) L60 x W200 x H46 Lighting Color Yellow



Size (mm) L55x W422 x H46.5 Lighting Color Yellow



Size (mm) L55 x W422 x H26

Lighting Color Yellow

Note: Hall Button + Hall-Lantern combination without the Hall (Digital/ LCD) Indicator is recommended when 4GSO-8GSO* is operated by the <Immediate Announcement System of a serving Car> function is applied by FLEX-NX (200 & 300).

(* GSO = Group Supervisory Operation)

Systems & Functions



1. Elevator Operation Control System

Control Systems	
For One Elevator: 1-Car Selective Collective Operation (Simplex)	Landing calls i landing calls a incoming calls
For Two Elevators in a Bank: 2-Car Selective Collective Operation (Duplex)	Two selective- by either eleva main floor; the
For Three to Eight Elevators in a Bank (Group Control Operation)	The operation which calculat as passenger

2. Functions and Specific-Purpose Operations, etc.

	Functions and urpose Operations, etc.	Details	●: Standard / ■: Optional		
	Alarm Buzzer	When the emergency button is pressed, the car-top-mounted buzzer will sound an alarm.	•		
	Rescue Operation to Nearest Floor	In the event that an elevator stops between floors, a safety circuit will automatically analyze the situation and slowly move the elevator to the nearest available floor.	•		
	Automatic Releveling	In the event that an elevator floor isn't leveled with the landing floor, the Automatic Releveling function will initiate and make the elevator floor flush with the landing floor.	•		
	Emergency Car Lighting	In the event of a power failure, a self-charging-battery-equipped emergency lighting system will light up the elevator for passenger safety and relief.	•		
	Five-Way Intercom	An intercom for 5-way communication is installed in the elevator. It allows 4 remote telephones to communicate with the elevator; one on the car top, one in the pit, one in the machine room and one in the building-system control room.	•		
Passenger-Safety Functions	Multi-Beam Sensor	A multi-beam sensor emits multiple infrared beams, which will scan at the high speed in the elevator door, forming an infrared beam barrier. If a single beam is interrupted, the sensor will stop the closing doors and reopen them.	•		
	Multi-Beam Sensor with Mechanical Safety Edge	A multiple-beam sensor can be incorporated in mechanical safety edges of elevator doors.	•		
	Night-Time Self-Checking Operation	During the night time when the elevator doesn't receive any car and hall calls, the system will move the elevator and check the mechanical brake conditions automatically.	•		
	Open Door Warning	If a passenger tries to forcibly open the doors while the elevator is in operation, the warning device will sound an alarm.	•		
	Unintended Car Movement Protection (UCMP)	The Unintended Car Movement Protection system prevents elevator movement from the landing floor, while passengers are entering and getting off the elevator.	•		
	Car Door Anti Stripping Device	It can prevent passengers from falling into the shaft when the door is opened in the non unlocking area, and further ensure the safety of elevator passengers.	•		
	Impact Resistant Door System	The impact resistance of the landing door system is further strengthened, and the risk of falling into the shaft caused by the impact of the landing door system is effectively prevented, further ensuring the safety of elevator related personnel.	•		

25.

The above functions may change without prior notice.

Details of the Systems

s in the direction in which the elevator is traveling are served sequentially. After all the are served, landing calls in the opposite direction will be served. When there are no Ils, the elevator stops and stays at the last served floor.

e-collective-operation elevators work together in one group. Landing calls are served vator that can respond first. When there are no calls, one will be on standby at the ne other will stay at the last served floor.

n of more than two elevators in a bank is controlled by a group supervisory system ates passenger waiting time in advance based on the accumulated traffic data, such er travel patterns and passenger volume at each floor, etc.

Systems & Functions

F	Functions and					Functions and			
Specific-P	urpose Operations, etc.	Details	Standard	l / : Optional	Specific-	Details	Standard	I / ∎: Optional	
	Anti Nuicence Function	 For elevators with three or more landings, when three or more car calls are registered at the same time, or when four or more car calls are registered in an extremely short period of time, the system will automatically cancel the activated car calls. 	•			Automatic Fan and Light Control	If an elevator receives no car- and hall- calls within a certain period of time, its ventilation fan and lights will turn off automatically.	•	
	Anti-Nuisance Function	2) For elevators with five or more landings, when an elevator loaded with 100 kg or less receives four or more car call registrations, the system will cancel all the activated registrations.	•		Energy- Saving Functions	Elevator Operation Period Control	The elevator operation period in a day is automatically controlled by a timer mounted on the control panel's computer board in the machine room.		•
	Auto Adjustment of Door Open Time	This function automatically adjusts the door-hold open time (dwell time) at each floor depending on passengers' hall- and car- call registration situations.	•			Parking Operation	When an elevator is shifted to Parking Operation mode, the elevator will move to the pre-assigned floor and park with its doors closed, and car lights and fan turned off.		•
	Automatic Return to Main Floor (for 1-Car & 2-Car & Group Control Operation)	When an elevator does not receive any car- or hall- calls for a certain period of time, the Automatic Return to Main Floor function makes the elevator go to the lobby or a predetermined floor and waits in standby for passengers to board.	•			Battery-Powered Automatic Landing Operation (LANDIC)	In the event of a power failure, a compact battery power source will move the car to the nearest available floor.		•
	Door Nudging	If the car doors are held open over a given period of time, the Door Nudging function will close them slowly with an audible alarm.	•			Door Opening Failure Rescue Operation	When an elevator fails to open the doors at a landing floor, it will move to the next available floor and open them.	•	
Efficient-Operation Functions	Auto-Separation after Elevator Failure (for Group Control Operation)	When an elevator under group control operation fails to operate normally, it will be separated from the elevator group so as not to affect the overall group elevator performance.	•			Earthquake Rescue Operation (WAVIC)	When a seismic sensor has detected a seismic wave (the secondary seismic wave), the elevator(s) will be shifted to rescue operation mode and automatically move to the nearest		•
	Load Bypass	When a traveling car is fully loaded, it will bypass floors where hall calls are registered. Those hall calls will be assigned to another available elevator.		•	Specific-Purpose		available floor for passenger evacuation.		
	Overload Warning	When a car becomes overloaded, the warning alarm will sound. The elevator doors will not close until the overloaded state is resolved.	•		Operations	Fire Operation	take an elevator directly to an evacuation floor and immobilize it there. (One refuge floor at the terminal floor)	•	
	Reverse-Direction Car-Call Cancellation	In the event that a passenger tries to register a car call that is behind the car's current travelling direction, the elevator system will regard it as a nuisance call and ignore it in order to maintain the elevator service efficiency.	•			Fireman Operation	Under automatic operation, when the Fireman's switch is on, the car will immediately cancel all the calls and run to the refuge floor. The elevator responds to the call in the car only, which is used for special fire fighting operation.		•
	Wrong Car-Call Register Cancellation	In case a passenger presses the wrong car call button, this mistake can be cancelled by pushing the same button twice.	•			Independent Operation	When Independent Operation is turned on, a designated elevator can operate independently for exclusive use.	•	
	Door Open Holding Button (COB)	In order to meet the demand of loading and unloading goods, a door opening extension button is installed on the operation panel in the car. Pressing this button can keep the door opening time for 3 minutes.		•		Standby Power Operation	In the event of a power failure, the elevator(s) will return to an evacuation floor using standby power and will be held there on standby. * Standby power system shall be provided and installed		
	Arrival Chime (In Car)	When a car arrives at a destination floor, an arrival chime will sound softly.		-			by third parties.		
	Attendant Operation	By using attendant-operation buttons inside a car operating board's cabinet, authorized personnel can register car calls for in-car passengers. In addition to monitoring incoming hall calls,	•			Elevator Visual Monitoring System (ELVIC)	By monitoring the current statuses of running elevators and giving necessary commands to elevators through desk-top PCs in a specific remote location, ELVIC manages and controls elevator operation. (Desk-top PCs shall be provided by the customer.)		•
		the attendant decides the car travel direction and operates the car doors with priority service for in-car passengers.				CCTV-Camera Cables (Coaxial type, Network cable	For a CCTV camera, video-signal cables suitable for the hoistway		_
Passenger-	Automatic Voice Announcement System (VONIC)	A computerized voice system provides passengers with timely information about car directions, car arrivals, door opening and closing, and emergencies, etc. At the customer's request, announcements in other languages can be added.		· •	Equipment (for Building Security, etc.		and / or machine room are available. Through an elevator operation supervisory panel, the statuses of		
Comfort Functions	Plasmacluster™ lon Generating Device (IONFUL)	Plasmacluster Ion Generating Device to be built into a car's ventilation unit creates clean air for passenger comfort by disinfecting germs, odor molecules, bacteria, viruses, and allergens in the elevator.		•		Panel (such as watching board, console panel, etc.) Building-Management-System	elevator operation can be monitored and the elevator operation controlled. Through a purpose-built interface, a building management		•
	Visual Display on Car Operating Board	Informing on an elevator's current condition, a visual display on the car operating board will provide passengers with timely text messages such as "OVERLOADED", "EMER. OPERATION", "PLEASE EXIT THE ELEVATOR." etc,	•		The above functions may	(BMS) Interface	system can receive up-to-date elevator operation data.		
	Visual Display on Landing Fixture	Informing on an elevator's current condition, a visual display on the landing fixture will provide waiting passengers with timely text messages such as "OVERLOADED", "EMER. OPERATION", etc.	•						

Relevant Dimensions

Power Supply Data

Counterweight at the rear

Capacity	Speed	Opening	Car Inside A x B	Opening W x H	Hoistway	Machine Room Size Pit MX x MY x MH				Overhead OH	Machin reactio		Pit rea	
(kg)	(m/s) Type AxB WxH XxY MXxMYxMH (mm) (mm) (mm)			(mm)	(mm)	R1	R2	R3	R4					
	1.0						1300	CPH+1650						
630	1.5	200	1400X1100	800x2100	1850X1650	1850X1650x2200	1400	CPH+1800	69	47	84	105		
030	1.75	200	1400/1100	000X2100	100071000	1630×1030×2200	1450	CPH+1850	09	47	04	105		
	2.0						1500	CPH+1950]					
	1.0						1300	CPH+1650		49	89			
000	1.5	2CO 1400x1350	800x2100	1850×1900	1850x1900x2200	1400	CPH+1800	72	110					
800	1.75	2CO 1400x1350				1450	CPH+1850		110					
	2.0						1500	CPH+1950						
	1.0							1300	CPH+1650					
1000	1.5			000.0100	20002000	00 2000×2000×2200	1400	CPH+1800	- 74	50	91	112		
1000	1.75	2CO 1600x1400	900x2100	2000×2000	1450		CPH+1850							
	2.0						1500	CPH+1950						
	1.0						1300	CPH+1650						
1050	1.5		1600x1500			2000x2050x2200	1400	CPH+1800	75	51	93			
1050	1.75	2CO	900x2100		2000x2150	2000x2150x2200	1450	CPH+1850				114		
	2.0						1500	CPH+1950						

Capacity	Speed										Heat Generation Rate in Machine	Air Ventilation Rate in Machine							
(kg)	(m/s)	(kW)	(A)	(A)	(A)	(KVA)	(A)	25mm²	35mm²	50mm ²	70mm ²	95mm²	120mm ²	150mm²	185mm²	240mm²	300mm ²	Room(Kjh)	Room(m ³ /h)
	1.0	4.5	17	30	5	6	20	380	518	679	920	1189	1668	2002	2348	2853	3004	4000	470
630	1.5	6.8	23	41	7	9	25	287	392	513	695	898	1261	1513	1774	2156	2269	5950	700
	1.75	7.9	26	49	8	10	32	253	345	452	612	791	1110	1332	1563	1899	1999	6950	820
	2.0	9.0	27	52	9	11	32	237	324	424	575	743	1043	1251	1468	1783	1877	7950	940
	1.0	6.0	20	33	5	8	20	324	442	578	784	1013	1421	1706	2001	2431	2559	5050	600
800	1.5	8.7	29	50	8	11	32	224	305	400	542	701	983	1180	1384	1682	1771	7550	890
	1.75	9.6	33	60	10	12	40	194	265	347	470	607	852	1023	1199	1457	1534	8800	1040
	2.0	11.0	35	61	11	13	40	183	249	327	443	572	803	964	1131	1374	1446	10050	1190
	1.0	7.0	23	34	9	10	25	278	379	496	673	869	1220	1464	1717	2086	2196	6300	740
1000	1.5	10.9	33	50	11	13	40	196	267	350	475	613	861	1033	1212	1473	1550	9450	1110
1000	1.75	12.0	35	56	11	16	40	180	246	323	437	565	793	952	1117	1357	1428	11000	1300
	2.0	14.0	40	64	11	18	40	160	218	286	388	501	703	844	990	1203	1266	12600	1480
	1.0	7.0	26	40	9	10	32	247	337	441	598	773	1085	1302	1527	1856	1953	6600	780
1050	1.5	10.9	35	57	11	14	40	181	247	323	438	566	795	954	1119	1360	1432	9900	1170
1000	1.75	12.0	40	62	11	16	40	160	219	287	388	502	705	846	992	1205	1269	11550	1360
	2.0	14.0	43	71	12	18	50	147	201	263	357	461	648	777	912	1108	1166	13200	1560

Notes: 1. The data shown above may vary based on elevator specification arrangement. 2. Earthling wires shall be arranged and installed based on local elevator code requirement.

Notes: 1. The data shown above may vary based on elevator specification arrangement.
 2. Refer to the Work Done by Others for the Acceptable Inclination of Hoistway's Vertical Centerline.
 3. Car Panel Height(CPH)=Clear Ceiling Height+ Suspended Ceiling Height(SCH)
 (For CE-g1, CE-g5, CE-e2 SCH= 0mm, For CE-c1, CE-c7 SCH= 150mm, For CE-e4 SCH= 100mm.)

Planning

2-Panel Center Opening(2CO)-Standard

Machine Room Arrangement Of The Hoistway (Wide Car)





*1. The above dimensions are for reference only. The actual engineering design data shall be used.

*2. The above dimensions are based on RC-structure hoistway.

*3. The location of the machine-room door in the above drawing is for reference only.

*4. The location of the machine-room control panel in the above drawing is for reference only.

*5. The above hoistway's internal dimensions are based on the hoistway with waterproof finish.

*6. If hoistway's internal dimensions are too large, intermediate beams shall be provided and installed by others based on Fujitec-submitted drawings.

*7. The required thickness of the hoistway's structural walls is 150mm or more (not including the thickness of wall finish).

The above dimensions are for reference only. The actual engineering design data shall be used.





Work Done by Others

1. Elevator Machine-Room and Hoistway Environment

Temperature of Machine Room and Hoistway	Temperature of machine room and hoistway shall be kept from 5 °C (41 °F) to 40 °C (104 °F).
	1. When a temperature reaches at 40 °C (104 °F), the relative humidity does not go beyond 50%.
Relative Humidity	2. In the year's most humid month(s), relative humidity shall be kept lower than 90 % and the temperature lower than 25°C (77 °F).
	 Dew condensation prevention measures shall be taken, if there are the possibilities that condensation form inside and on electrical equipment.

2. Electric Power Source

Type of Power Supply	 Three-Phase Power Supply for Elevator Driving Machine Single-Phase Power Supply for Lighting Equipment
Allowable Error of Voltage Value	The allowable error of voltage value is 7 % above and below the rated voltage.

3. Acceptable Inclination of Hoistway's Vertical Centerline

Hoistway's Vertical Length	Centerline's Tilt away from the Plumb Line (unit: mm)
30 meter or less	0 to 25 mm or less
More than 30 meters to 60 meters or less	0 to 35 mm or less
more than 60 m	0 to 50 mm or less

4. Work done by Others

The following items are in the scope of other contractors' work, not covering all items done by them.

For Hoistway

1.	Construct solid-state, fire-proof elevator hoistway.
2.	Cut out landing walls for Fujitec's installation of elevator operating fixtures and elevator equipment.
3.	Do wall finishing work by filling cement between jambs and landing walls.
4.	Do wall finishing work by filling cement between landing fixtures and landing walls.
5.	Give water-proofing and drainage treatment in elevator pit including the installation of pumping equipment.
6.	Install space divider screens between respective elevators in a hoistway pit.
7.	Install steel separator beams at regular vertical intervals in a hoistway.
8.	When hoistway is constructed with bricks, put steel lintels in their walls for Fujitec's installation of rail brackets. The steel lintels must be completely fixed inside the walls. The vertical height of the lintel is required to be 300 mm or more. For details, see the relevant drawings.
9.	When an elevator traveling distance from a floor to the next is more than 11 m, make an opening on the hoistway wall between the floors and install emergency exit doors in the opening for passenger evacuation.
10.	It is advised that there is no human access to the space below the hoistway pit.
11.	When the bottom of a hoistway pit is deeper than the required level, add backfill concrete up to the required level.
12.	Provide and install a pit ladder based on the layout drawings.
13.	Provide and install all of electricity supply apparatuses (inclusive of pipes, leads, wires, etc.) from the building's electricity supply system to the hoistway, landing floors and Fujitec-designated locations.
14.	Provide and install electrical outlets in the hoistway.
45	Install lighting equipment of 30 watt or more at 7-meter intervals inside the hoistway with 0.5-meter clearance at the top and bottom of the hoistway.

15. Install lighting equipment of 30 watt or more at 7-meter intervals inside the hoistway with 0.5-meter clearance at the top and bottom of the hoistway. The lighting intensity is required to be 50 lux or more at the car-top working platform and at the 1-meter high position above the pit bottom.

For Machine Room

FOI WIAC	
1.	Construct solid-state, fire-proof machine room.
2.	Provide and install a power switching / distributing board in the
3.	Install and lay electrical pipes, wires, and leads in the machine controller, machine, and other electrical equipment.
4.	Provide and install all of electricity supply apparatuses (inclusi system to the machine room and Fujitec-designated locations
5.	Install lighting equipment in the machine room. The lighting int
6.	Install air ventilator(s) and/or air conditioner(s) in order to keep
7.	Provide and install electrical outlets in the machine room.
8.	Install fire-proof entrance doors in the machine room.
9.	Take a noise reduction measure, if it is required.
10.	Install smoke detector, if it is required.
11.	Make cutouts and holes in the machine room.
12.	Construct machine room floor of which 1-square-meter area c
13.	Make holes in the walls of a machine room for Fujitec's installa fixed beams.
14.	After the installation of electrical pipes, wires, and leads, etc. o dust-resistant material.
15.	Make an appropriate size of opening on the roof or the sidewa equipment.
16.	Install machine lifting hooks and / or steel beams on the ceiling installation drawings.
17.	Install windows and louvers in order to let in daylight into the r
18.	If a person's entry into the machine room needs a ladder or sta
19.	In case the machine room has two or more floors and a distan Guardrails shall be provided and installed on the upper floor(s)

Others

1.	Ground-fault interrupter and current leakage alarm are required
2.	Lay building's telecommunication lines 500 mm away from the
3.	Remove corroded metal materials from the machine room and
4.	Protect the machine room and the hoistway against hazardous
5.	Prevent dust from accumulating in the hoistway and the maching
6.	Provide a storage room in order to stock elevator parts and ins
7.	Do not place any tools and materials not related to elevators ir

he machine room.

ne room. They shall be extended from the power switching / distributing board to the

sive of pipes, leads, wires, etc.) on various routes from the building's electricity supply is.

ntensity on the machine room's floor is 200 lux or more.

p the temperature of the machine room between 5 °C (41 °F) and 40 °C (104 °F).

can bear the load of 700 kgs.

lation of machine support beams and fill concrete into the gap between the walls and the

on the machine room floor, lay lightweight concrete and finish the floor surface with

vall of a machine room in order for Fujitec to carry in elevator machine and other

ng slabs of a machine room. The required lifting load capability is stated on the relevant

machine room.

tairs, the installation and fixation of it or them is required.

ance between each floor is more than 500 mm, install a ladder or stairs between the floors. (s) for the prevention of a person's fall.

red to be protected against current-harmonic distortion.

e electric feeder lines for elevator system.

d the hoistway.

is gas.

hine room.

stallation materials.

in the hoistway and the machine room.

FUJITEC

35.

Shuttle Elevators Reaching Impossible Travelling Distance

SNOWLAND **SNOWLAND** Travel Distance





Fujitec Global Operations



Ohaio Plant(U.S.A)



Langfang Plant(China)



Korea Plant

MAIN GATE



Taiwan Plant



FUJITEC URUGUAY **FUJITEC ARGENTINA S. A.**

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Europe & Middle East

FUJITEC UK LTD. FUJITEC SAUDI ARABIA CO., LTD. FUJITEC EGYPT CO., LTD.

Big Wing (Group Headquarters in Japan, Elevator Plant) India Plant



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