





# Freight Elevator Series GFM-T

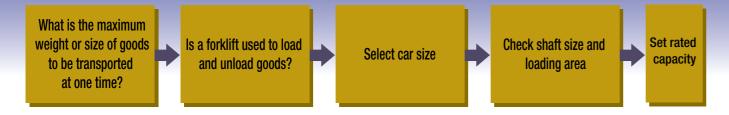


# Mitsubishi Freight Elevators Can Improve Your Goods-Handling Ability



# **Elevator Selection**

# 1. Rated capacity and car size



Driving system	Traction type
Machine room location	Directly over the hoistway
Rated capacity *1	750kg~6000kg
Rated speed *1	30m/min. ∼60m/min.
Maximum travel	30m
Overhead, Pit depth	Poter to pages 7 to 10
Motor capacity	Refer to pages 7 to 10

<sup>\*1:</sup> Combinations between capacity and speed are shown in the table on the next page.

## 2. Operation system

Operation system	Outline	Remarks	
Cingle automatic for freight 1DE	Responds to individual calls. It cannot	General operation system for typical	
Single automatic for freight 1BF	register new calls during operation.	freight uses.	
	Responds in sequence to calls in the		
Selective collective 2BC	same direction. It allows both	Applicable for handling small goods.	
	directions per call.		

## 3. Door system

		Door type	Remarks			
Ī	Horizontal	2S: 2-panel side opening				
	sliding doors	3S: 3-panel side opening	These door types have comparatively fast operation.			
		2CO: 4-panel center opening				
Ī	Vertical	2U: 2-panel upward opening	These door types make it easy to align same-size entrance width and car width.			
	sliding doors	3U: 3-panel upward opening	Note: Not applicable with 2BC operation.			

# **Basic Specifications**

# GFM-T GFM-T GFM-T GFM-T GFM-T GFM-T GFM-T

#### The following dimension is shown in Japan code.

			Capacity	Car interior (mm)			Entrance (mm)		Cnood	
Loading equ	ipment and scope o	f application	Туре	•	Width	Depth	Door type	Width	Height	Speed (m/min)
				(kg)	(AA)	(BB)		(JJ)	(HH)	(m/min.)
			F-750-2S	750	1300	2300	2S	1100	2100	45/60
			F-1000-2S	1000	1700	2300	28	1400	2100	45/60
			F-1500-2S	1500	2200	2400	2S	1700	2100	45/60
			F-2000-2S	2000	2200	2800	2S	1700	2100	45/60
			F-2500-3S				3S	2300		
			F-2500-2U	2500	2500	3000	2U	2500	2500	45/60
$\wedge$			F-2500-3U				3U	2500		
			F-3000-3S				3S	2300		
			F-3000-2U	3000	2500	3400	2U	2500	2500	45/60
₩ W			F-3000-3U				3U	2500		
	<b>I</b>		F-3500-3S	3500	2800	3800	3S	2400	2500	45/60 30/45
			F-3500-2U				2U	2800		
			F-3500-3U				3U	2800		
			F-4000-2CO		3000	4500	2CO	2400	2500	
			F-4000-2U	4000			2U	3000		
			F-4000-3U				3U	3000		
			F-4500-2CO				2CO	2500	2500	
			F-4500-2U	4500	3200	4500	2U	3200	3000	30/45
₩			F-4500-3U				3U	3200		
			F-5000-2CO				2CO	2500	2800	
			F-5000-2U	5000	3200	5000	2U	3200	3000	30/45
			F-5000-3U				3U	3200	0000	
			F-6000-2CO				2CO	2700	2800	
			F-6000-2U	6000	3500	5800	2U	3500	3000	30
			F-6000-3U				3U	3500	0000	

Note: 1. Freight elevators of less than 2500kg capacity can only be loaded by handtrucks with casters. Goods cannot be loaded by forklift.

Please consult our sales agency if you plan to use a forklift to load and unload goods with our traction-type freight elevators of 2500kg capacity or more.

<sup>2.</sup> In cases where capacity exceeds 3000kg, please consult our sales agency for details.

<sup>3. 2</sup>U, 3U door type can not be applied for EN-81-1 or GB code.

# **Car and Entrance Designs**

# GFM-T GFM-T GFM-GFM-T GFM-T GFM-T GFM-GFM-T GFM-T GFM-T

Signal fixtures such as Car operating panel and Hall position indicator, etc., are shown according to operation system. The applications vary based on the model, so please confirm when ordering.

# E-102.....FC-101-25.....Finishes and Designs 2-panel side opening





Door frame	Narrow Jamb with Painted steel sheet	
Entrance Doors	Painted steel sheet	
	Extruded hard aluminum (Capacity of	
E . 0:11	2000kg or less)	
Entrance Sill	Steel plate with black paint (Over	
	2000kg capacity)	
Hall buttons	Indicator is incorporated in Hall button	
naii bullons	unit.	
Car Ceiling	Painted steel sheet	
Car Walls	Painted steel sheet	
Car Doors	Painted steel sheet	
Flooring	Checkered steel plate with black paint	
Car Sill	Same as Entrance Sill	
Lighting	Fluorescent light fixtures	
Car wall protectors	Stainless steel hairline (Optional)	

<sup>\*</sup>Signal fixtures shown above are for Single automatic operation for freight (1BF). (Standard)

# E-202.....FC-101-35.....Finishes and Designs 3-panel side opening





Door frame	Square Jamb with Painted steel sheet	
	(Optional)	
Entrance Doors	Painted steel sheet	
	Extruded hard aluminum (Capacity of	
Entrance Sill	2000kg or less)	
Entrance Sill	Steel plate with black paint (Over	
	2000kg capacity)	
Hall buttons	Indicator is incorporated in Hall button	
naii buttoris	unit.	
Car Ceiling	Painted steel sheet	
Car Walls	Painted steel sheet	
Car Doors	Painted steel sheet	
Flooring	Checkered steel plate with black paint	
Car Sill	Same as Entrance Sill	
Lighting	Fluorescent light fixtures	

operation (2BC). (Optional)

Note: Car operating panel is installed in Front return panel.

# E-102.....FC-101-2U.....Finishes and Designs 2-panel upward opening





Narrow Jamb with Painted steel sheet
Painted steel sheet
Checkered steel plate with black paint
Indicator is incorporated in Hall button
unit.
Painted steel sheet
Painted steel sheet
Expanded metal with painted finish
Checkered steel plate with black paint
Fluorescent light fixtures

<sup>\*</sup>Signal fixtures shown above are for Single automatic operation for freight (1BF). (Standard)

# **Operation System**

# GFM-T GFM-T GFM-T GFM-T GFM-T GFM-T GFM-T

Single automatic for freight (1BF): Standard Selective collective (2BC): Optional

	Signal fixtures	Functions	Remarks
	Direction arrow	Shows direction during operation.	
	Position indicator	Shows position of elevator.	
	IN-USE indicator	Shows elevator is in use.	Only 1BF
Hall manition indicator	Call button	Push to register call. Invalid while IN-USE	Only 1RE
Hall position indicator	Call button	indicator is illuminated.	Only 1BF
	Up call button	Push to go up.	Only 2BC
	Down call button	Push to go down.	Only 2BC
	Door close button	Close doors promptly for next user.	Only 1BF
	Direction arrow	Shows direction during operation.	
	Position indicator	Shows position of elevator.	
	Intercom	Enables contact with building superintendents.	
	Alarm button	Keep pushing in times of emergency to enable	
	Alaini bullon	the elevator operator contact with outside.	
	Emergency eten ewitch	When pressed during an emergency, the	
	Emergency stop switch	elevator immediately stops.	
Car operating panel	Car button	Press for the destination floor.	
	Door open button	Press to re-open the doors when doors are closing.	
	Door close button	Keep pressing until the car starts with doors closed.	Only 2BC
	Swing door	There are switches inside for maintenance and	
	Swing door	administrative purposes.	
	Key hole	Turn the key to the left to open swing door.	



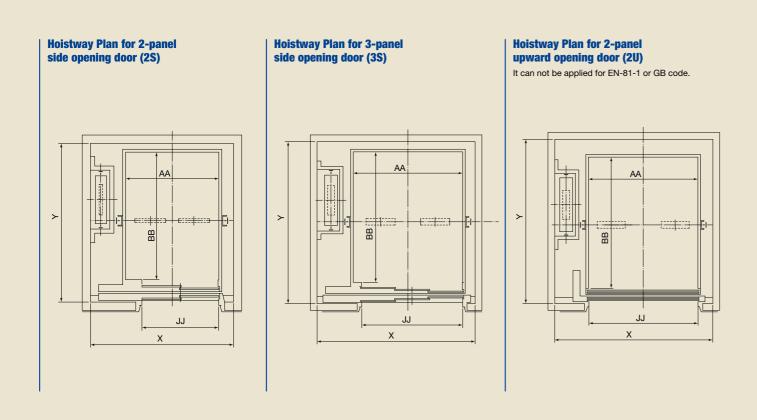


# ●: Standard O: Optional

					• I Standard	O. Optional
			Item		Descriptions	Application
		Malla and Tr	anaam Danal		Painted steel sheet	•
	Walls and Transom Panel			Stainless steel hairline	0	
			D (11it  0)	:-!: D\	Painted steel sheet	•
		Doors	Panel Doors (Horizontal S	iding Doors)	Stainless steel hairline	0
			Steel Mesh Doors (Vertica	Sliding Doors)	Expanded metal with painted finish	•
		Ceiling	ı		Painted steel sheet	•
	<b>≒</b>	Lighting			Fluorescent light fixtures	•
	Car	Ventilation			Diffuser fan	0
		Entrance Co	lumns (Only Horizontal S	Sliding Doors)	Stainless steel hairline	•
		Car Wall Pro	tectors		Stainless steel hairline	0
Appearance		Flooring			Checkered steel plate with black paint	•
ara			Capacity of 2000kg o	r less	Extruded hard aluminum	•
bbe		Sill	Over 2000kg Capacity	/	Steel plate with black paint	•
₹			Vertical Sliding Doors		Same unit as car flooring	•
					Painted steel sheet	•
			Narrow Jamb		Stainless steel hairline	0
		Door Frame	Door Frame Splayed Jamb / Square		Painted steel sheet	0
	ø				Stainless steel hairline	0
	anc	anc			Painted steel sheet	•
	Entrance	Doors	Capacity of 2000kg or less Over 2000kg Capacity		Stainless steel hairline	0
					Extruded hard aluminum	•
		Sill			Steel plate with black paint	•
			Vertical Sliding Doors	<u> </u>	Checkered steel plate with black paint	•
als	Car	r Operating nel	Faceplate		Stainless steel hairline	•
Signals		Il Position licator	Faceplate		Stainless steel hairline	•
	0-4	foty Door Cala	o (CDE)		The sensitive mechanical door edge detects the operator or	
	Sai	fety Door Edg	e (SDE)		goods upon contact during door closing.	_
			Horizontal Sliding Doors	Car side	The infrared-light beam (one or two) covers the full width of	
tures		(-t. D- (OD)		Car side	the door as it opens or closes to detect the operator or goods.	0
atn	Sat	fety Ray (SR)	Vertical Sliding Doors	F	The infrared-light beam is installed in the door frame.	
F		Entrance side		Entrance side	The feature is the same as car side.	0
Operational Fea	Ove	erload Holdin	g Stops (OLH)		The elevator buzzer rings to indicate the car is overloaded.	•
rati					The doors are automatically closed after a predetermined time	
Ope	Aut	tomatic Door	Closing (ADC) (Only 1E	BF)	(std. 1 min.) from full opening. The buzzer will continue to ring	0
J					from 8 sec. before closure until the doors are fully closed.	
	_		D (D.)(0 ===)	(0.1.670)	This feature keeps the doors open for a predetermined period	
	Ext	tended Door-(	Open Button (DKO-TB)	(Only 2BC)	to facilitate loading and unloading of goods.	0

# ●: Standard ○: Optional

	Item	Descriptions	Application			
	Inter Communication System (ITP)	A system which allows communication between passengers	0			
	, , ,	inside a car and the building personnel.				
	Emergency Car Lighting (ECL-C)	Car lighting which turns on immediately when power fails to	0			
	(Rechargeable Battery Type)	provide a minimum level of lighting within the car.				
	Car Fan Shut Off – Automatic (CFO-A)	If there are no calls for a specified period, the car ventilation	0			
	Carrain Char Char Charles Mano (Cr. C. r.y	fan will automatically be turned off to conserve energy.				
	Car Light Shut Off – Automatic (CLO-A)	If there are no calls for a specified period, the car lighting will	will			
		automatically shut off to conserve energy.				
	Hall Out of Service Switch (HOS)	For maintenance or energy-saving measures, a car can be taken out	0			
		of service temporarily with a key switch mounted in a specified hall.				
	Wiring for BGM Speaker	Necessary wires are provided in the traveling cable.	0			
		(Speaker: by owner)				
w	Mitsubishi Emergency Landing Device (MELD)	Upon power failure, a car equipped with this function				
i i		automatically moves and stops at the nearest floor using a	0			
eat		rechargeable battery, and the doors open to ensure passenger				
Operational Features		safety. (Max. allowable floor-to-floor distance is 10 meters.)				
ţi	Earthquake Emergency Return (EER-P / EER-S)	Upon activation of primary and/or secondary wave seismic				
era		sensors, all cars stop at the nearest floor, and park there with	0			
o		the doors open to facilitate safe evacuation of passengers.				
	Fire Emergency Return (FER)	Upon activation of a key switch or a building's fire sensors, all				
		calls are canceled, all cars immediately return to a specified	0			
		evacuation floor and the doors open to ensure safe passenger				
	0 " 1 5 0	evacuation.				
	Operation by Emergency Power Source –	Upon power failure, the car uses the building's emergency				
	Auto/Manual (OEPS)	power supply to move to a specified floor, where the doors				
		then open to facilitate the safe evacuation of passengers.	0			
		After the car has arrived at the floor, normal operation will				
	Companies on Companies (AMD)	be available.				
	Supervisory Panel (WP)	A panel installed in a building's supervisory room, etc., which				
		monitors and controls each elevator's status and operations	0			
		by remote, using indicators and switches which are provided				
		on request.				



# Machine Room Plan Ventilating fan (by owner) Ventilating fan (by owner) Ventilating fan (by owner) R Cinder concrete finish (by owner) R Access door W1200/H2000 Ventilation nole (by owner) X AM AM AM AM Postway Section Cinder concrete finish (by owner) Ventilating fan (by owner) Access door W1200/H2000 Access door Access door W1200/H2000 Access door W1200/H2000 Access door W1200/H2000 Access door W1200/H2000 Access door Access door W1200/H2000 Access door Access door W1200/H2000 Access door W1200/H2000 Access door W1200/H2000 Access door W1200/H2000 Access door Access do

#### The following dimension is shown in Japan code.

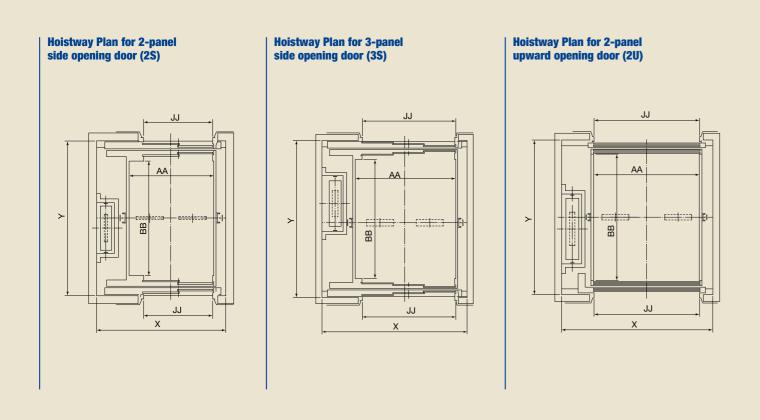
	The following differences in Japan code.														
	Capacity	Speed	Motor	Machine room	Pit depth		Hoistway (mm)	Min. floor	Overhead	Reaction loads (kN)*2					
Туре	(kg)	(m/min.)	(kW)*1	(mm)		Door type	moistway (mm)	height	OH	Machir	ne room	P	it		
	(9)	(,	()	AM×BM	(mm)		X×Y	(mm)	(mm)	R1	R2	R3	R4		
F-750-2S	750	45	7.5	2600 × 3950	1250	2S	2200 × 2900	2800	4450	44.6	36.7	70.6	55.4		
1-730-23	750	60	9.5	2000 🗡 3930	1550	20	2200 × 2900	2000	4650	44.0	30.7	71.6	55.4		
F-1000-2S	1000	45	7.5	3150 × 3950	1250	- 2S	2600 × 2900	2800	4450	74.6	43.1	80.4	66.2		
F=1000-23	1000	60	9.5	3130 × 3930	1550	23	2000 × 2900	2000	4650	74.0	43.1	84.8	73.1		
F-1500-2S	1500	45	9.5	3600 × 4050	1250	- 2S	3150 × 3000	2800	4450	101	53.9	119.6	82.4		
F-1000-25	1500	60	13	3600 🔨 4030	1550	23	3150 × 3000	2000	4650	101	55.9	129.4	88.3		
F-2000-2S	0000	2000	2000	45	13	3600 × 4250	1250	2S	3150 × 3400	2800	4450	121.6	63.7	139.2	103
F-2000-25	2000	60	18.5	3000 × 4230	1550	23	3130 × 3400	2000	4650	121.0	03.7	150	109.8		
F-2500-3S		45	18.5	4000 × 4400	1250	38	3600 × 3700	3300	4850	148.1	81.4	192.2	144.2		
F-2000-35		60	22		1550	38	3000 X 3700	3300	5050	146.1		206	154		
E 0500 011*4	0500	45	18.5	4000 × 4400	1250	2U	2000 > 2700	4500	4850	155.0	80.4	192.2	144.2		
F-2500-2U*4	2500	60	22		1550	20	3600 × 3700   4500	4500	5050	155.9		206	154		
E 0500 011+4			45 18.5		1250	011		2050	4850	455.0		192.2	144.2		
F-2500-3U*4		60	22	4000 × 4400	1550	3U	3600 × 3700	3950	5050	155.9	80.4	206	154		
F 0000 00		45	18.5	4400 > 4000	1250	00	0750 \ / 4400	2000	4850	1007	00.0	208	154		
F-3000-3S		60	26	4100 × 4800	1800	3S	3750 × 4100	3300	5050	166.7	92.2	223	165		
E 0000 011+4	0000	45	18.5	4400 > 4000	1250	011	0750 \ / /400	4500	4850	4745	00.0	208	154		
F-3000-2U*4	3000	60	26	4100 × 4800	1800	2U	3750 × 4100	4500	5050	174.5	92.2	223	165		
F 0000 01:::1		45	18.5	4400 > 4000	1250	011	0750 \/ 4422	2055	4850	4745		208	154		
F-3000-3U*4		60	26	4100 × 4800	1800	3U	3750 X 4100	3950	5050	174.5	92.2	223	165		

<sup>\*1:</sup> Since required motor power varies according to the specifications, such as elevator cage weight, etc., please consult our sales agency for details.

<sup>\*2:</sup> Since reaction load varies according to the specifications, please consult our sales agency for details.

<sup>\*3:</sup> In cases where capacity exceeds 3000kg, please consult our sales agency for details.

<sup>\*4: 2</sup>U, 3U door type can not be applied for EN-81-1 or GB code.



Machine Room Plan	Hoistway Section
Ventilating fan (by owner)  R1  Control Panel Access door W1200×H2000  Ventilation hole (by owner)  X  AM	Cinder concrete finish (by owner)  Page 1

#### The following dimension is shown in Japan code.

The following dimension is snown in Japan code.													
Туре	Capacity (kg)	Speed (m/min.)	Motor (kW)*1	Machine room	Pit depth PD	Door type	Hoistway (mm)	height	Overhead OH				
				(mm)						Machine room		Pit	
	( 3/	,	,	AM×BM	(mm)		X×Y	(mm)	(mm)	R1	R2	R3	R4
F-750-2S	750	45	7.5	2600 × 3950	1250	2S	2200 × 3110	2800	4450	50.5	41.5	77.4	64.7
1-730-23	750	60	9.5	2000 X 0000	1550	20	2200 / 3110	2000	4650	30.5	41.5	78.5	69.6
F-1000-2S	1000	45	7.5	3150 × 3950	1250	- 2S	2600 × 3110	2800	4450	83.4	48	96.1	75.5
		60	9.5		1550				4650			104	80.4
F-1500-2S	1500	45	9.5	3600 × 4050	1250	- 2S	3150 × 3210	2800	4450	112.8	59.8	127.4	98
		60	13		1550				4650			137.2	106.8
F-2000-2S	2000	45	13	3600 × 4250	1250	- 2S	3150 × 3610	2800	4450	135.3	69.6	151	116.7
		60	18.5		1550				4650			162.8	125.5
F-2500-3S		45	18.5	4000 × 4400	1250	- 3S	3600 × 3970	3300	4850	163.8	84.3	205	157
		60	22		1550				5050			219	168
F-2500-2U*4	2500	45	18.5	4000 × 4400	1250	- 2U	3600 × 3680	4500	4850	166.7	89.3	205	157
		60	22	4000 🔨 4400	1550				5050			219	168
F-2500-3U*4		45	18.5	4000 × 4400	1250	- 3U	3600 × 4000	3950	4850	166.7	89.3	205	157
		60	22	4000 🔨 4400	1550				5050			219	168
F-3000-3S		45	18.5	4100 × 4800	1250	- 3S	3750 × 4370	3300	4850	- 201	106.9	217.8	182.4
		60	26	4100 ^ 4000	1800				5050			233	195
F-3000-2U*4	3000	45	18.5	4100 × 4800	1250	- 2U	3750 × 4080	4500	4850	206.9	110.8	217.8	162.8
		60	26	4100 ^ 4000	1800				5050			233	174
E 2000 201+4		45	18.5	4100 × 4800	1250	- 3U	3750 X 4400	3950	4850	206.9	110.8	217.8	162.8
F-3000-3U*4		60	26	4100 ^ 4000	1800	30	3/30 ∧ 4400	3930	5050	200.9	110.6	233	174

<sup>\*1:</sup> Since required motor power varies according to the specifications, such as elevator cage weight, etc., please consult our sales agency for details.

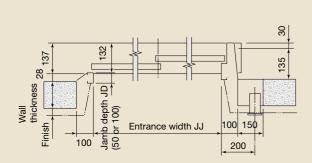
<sup>\*2:</sup> Since reaction load varies according to the specifications, please consult our sales agency for details.

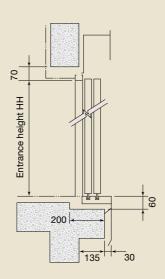
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<sup>\*4: 2</sup>U, 3U door type can not be applied for EN-81-1 or GB code.

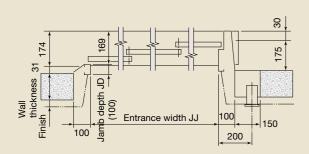
# 2-panel side opening door

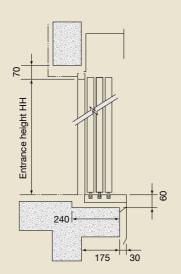
**(2S)** 

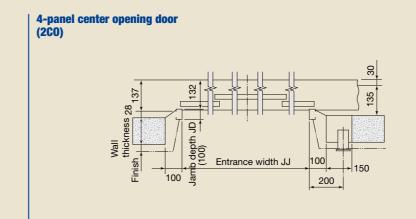


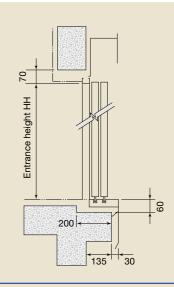


## 3-panel side opening door **(3S)**



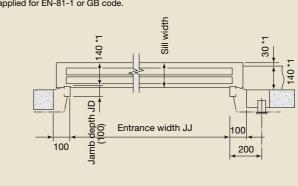


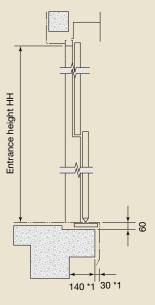




# 2-panel upward opening door (2U)

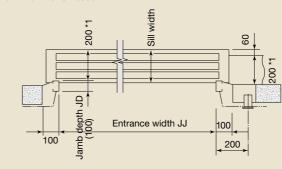
It can not be applied for EN-81-1 or GB code.



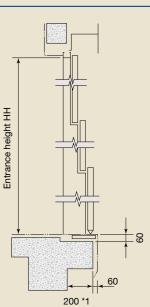


# 3-panel upward opening door (3U)

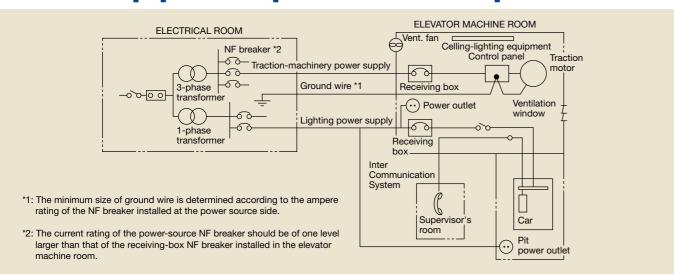
It can not be applied for EN-81-1 or GB code.



\*1: Since dimensions for vertical sliding doors vary according to the entrance width, entrance height and floor height, please consult our sales agency for details.



# **Electrical Equipment Required for Elevator Operation**



## **Traction-Machinery Power Supply**

It is necessary to install power-supply equipment of sufficient capacity to ensure the elevators accelerating smoothly and landing accurately. The power supply should be kept within a voltage-fluctuation range of +5 ~ -10%, and a voltage-imbalance factor of 5%. When selecting protective breakers on the power-supply side, be guided by voltage ratings of the no-fuse breakers supplied with the elevators.

### **Power Supply for Lighting**

Lighting for the elevator cars and indicators should, where possible, be supplied via a separate circuit that will not be affected by power failures elsewhere.

### **Ventilation Equipment**

A machine-room ventilating fan of a capacity to keep the room below 40°C is required. A ventilation window should also be installed opposite the ventilation fan.

## **Inter Communication System (where necessary)**

This is essential for establishing communication between elevator operator or passengers and outside in case of emergency. The master station transceiver is usually in a location readily accessible to the supervisor, in the central supervisor's room or elevator lobby. The wiring work between the master station and the elevator machine room is not included in the elevator contract. To facilitate piping and wiring, it is desirable to decide on the position of the master station at the earliest stage of building design.

## **Lighting Equipment**

The machine room should be fitted with good lighting for maintenance work. The light switch should be positioned close to the machine-room entrance.

## **Inspection Power Outlets**

These should be installed in the machine room and pit for use during inspections and maintenance.

# **Power Feeder Data**

Capacity (kg)	Speed (m/min.)	Motor (kW)	Power Feeder Data									
			Po	wer supply (20	0V)	Pow	er supply (400)	Power	Heat			
			Current		Receiving	Current		Receiving	supply	emission		
			FLU (A)	FLAcc (A)	box NF- breaker (A)	FLU (A)	FLAcc (A)	box NF- breaker (A)	capacity (kVA)	(W)		
750	45	7.5	30	69	50	15	35	30	7	1000		
	60	9.5	38	89	60	19	45	30	8	1350		
1000	45	7.5	32	64	50	16	32	30	7	1350		
1000	60	9.5	41	84	75	21	42	40	9	1750		
1500	45	9.5	45	87	75	23	44	40	10	2000		
1500	60	13	57	114	100	29	57	50	12	2650		
2000	45	13	57	110	100	29	55	50	12	2650		
	60	18.5	73	143	125	37	72	60	15	3500		
2500	45	18.5	73	147	125	37	74	60	15	3300		
	60	22	93	191	150	47	96	75	19	4400		
3000	45	18.5	77	157	125	39	79	60	17	3950		
	60	26	98	205	150	49	103	75	22	5250		

#### **Work Not Included in Elevator Contract**

The following items are excluded from Mitsubishi Electric's elevator installation work, and are therefore the responsibility of the building owner or general contractor:

- Construction of the elevator machine room with proper beams and slabs, equipped with a lock, complete with illumination, ventilation and waterproofing.
- Access to the elevator machine room sufficient to allow passage of the control panel and traction machine.
- Architectural finishing of the machine room floor, and the walls and floors in the vicinity of the entrance hall after installation has been completed.
- Construction of an illuminated, ventilated and waterproofed elevator hoistway.
- A ladder to the elevator pit.
- •The provision of cutting the necessary openings and joists.
- Separate beams, when the hoistway dimensions markedly exceed the specifications, and intermediate beams when two or more elevators are installed.
- •All other work related to building construction.
- •The machine room power-receiving panel and the electrical wiring for illumination, plus the electrical wiring from the electrical room to the power-receiving panel.
- The laying of conduits and wiring between the elevator pit and the terminating point for the devices installed outside the hoistway, such as the emergency bell, intercom, monitoring and security devices, etc.
- The power consumed in installation work and test operations.
- All the necessary building materials for grouting in of brackets, bolts, etc.
- •The test provision and subsequent alteration as required, and eventual removal of the scaffolding as required by the elevator contractor, and any other protection of the work as may be required during the process.
- The provision of a suitable, locked space for the storage of elevator equipment and tools during elevator installation.
- The security system, such as a card reader, connected to Mitsubishi Electric's elevator controller, when supplied by the building owner or general contractor.
- \* Work responsibilities in installation and construction shall be determined according to local laws. Please consult our local agents for details.

## **Elevator Site Requirements**

- The temperature of the machine room and elevator hoistway shall be below 40°C.
- The following conditions are required for maintaining elevator performance.
- a. The relative humidity shall be below 90% on a monthly average and below 95% on a daily average.
- b. The machine room and the elevator hoistway shall be finished with mortar or other materials so as to prevent concrete dust.
- Voltage fluctuation shall be within a range of +5% to −10%.

#### **Ordering Information**

Please include the following information when ordering or requesting estimates:

- The desired number of units, speed and loading capacity.
- The number of stops or number of floors to be served.
  The total elevator travel and each floor-to-floor height.
- Operation system.
- Selected design and size of car.
- Entrance design.
- •Signal equipment.
- A sketch of the part of the building where the elevators are to be installed.
- •The voltage, number of phases, and frequency of the power source for the motor and lighting.



# State-of-the-Art Factories... For the Environment. For Product Quality.

Mitsubishi Electric elevators and escalators are currently operating in approximately 90 countries around the globe. Built placing priority on safety, our elevators, escalators and building system products are renowned for their excellent efficiency, energy savings and comfort. The technologies and skills cultivated at the Inazawa Works in Japan and 12 global manufacturing factories are utilized in a worldwide network that provides sales, installation and maintenance in support of maintaining and improving product quality.

As a means of contributing to the realization of a sustainable society, we consciously consider the environment in business operations, proactively work to realize a low-carbon, recycling-based society, and promote the preservation of biodiversity.

#### ISO9001/14001 certification

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







Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

# MITSUBISHI ELECTRIC CORPORATION

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www.MitsubishiElectric.com/elevator

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

