



Standard Specifications

E25/27 Controller

E35/37 Controller

E45/47 Controller

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Kawasaki Heavy Industries, Ltd.
Robot Business Division

Specification number : 90152-0085DEB

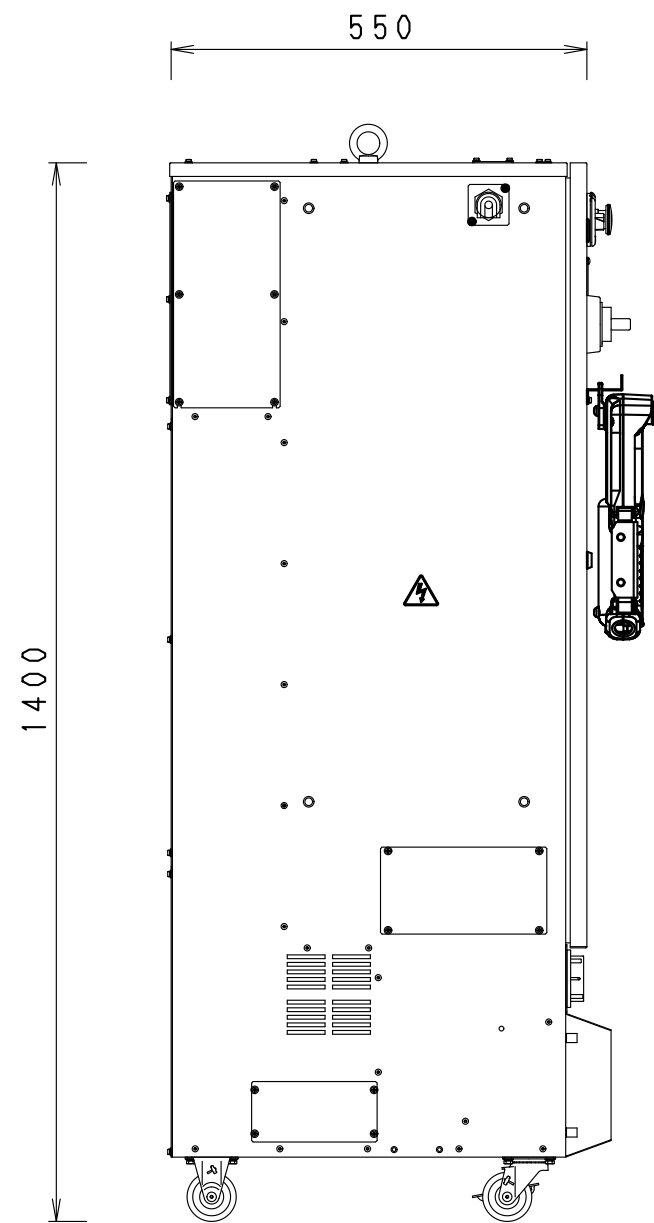
Materials and specifications are subject to change without notice.

Controller specifications

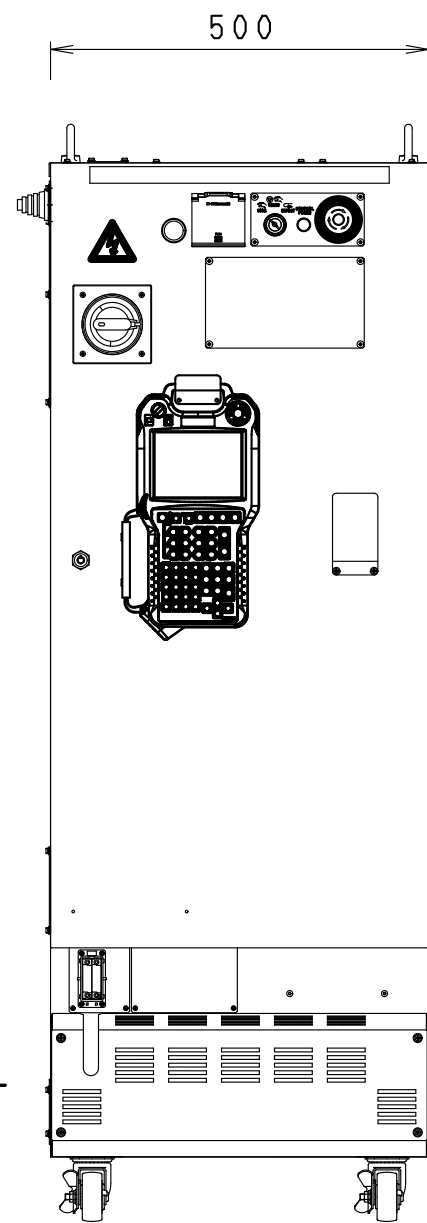
1. Model		E25	E27	(for Japan / Asia)
		E35	E37	(for North America)
		E45	E47	(for Europe)
(Robot type)		KF/KJ	KD010/KF121	
2. Dimensions		W500(650/659)×D550×H1,400mm (Refer to the outline drawing for details.)		
3. Structure		Enclosed structure: Indirect cooling system IP53 equivalent (E2x), IP54 equivalent (E3x / E4x)		
4. Controlled axes		Std. 6 axes (Option: Built-in up to 9 axes)		
5. Memory capacity		8MB		
6. I/O signals		External operation sig.: Ext. Emergency Stop, Ext. HOLD signal etc.		
		General-purpose I/O sig.: GPIO board (Input 32/Output 32) NPN(Sink) type or PNP(Source) type		
7. Cable length * Total length: Max. 40m ** Total length: Max. 30m		Robot-controller (non hazardous): 3m (Opt.5/7/10/15/20/25/30m)*		
		Robot-controller (hazardous): 3m (Opt.1/5/7/10/15m)*		
		Teach pendant: 10m (Opt.3/5/15/20/25/30m)**		
8. Mass		120kg (E2x), 170kg (E3x / E4x)		
9. Power requirement	E25 / E27	AC200-AC220V±10%, 50/60Hz, 3 phases Max. 10kVA (E25) / 5.6kVA (E27)		
	E35 / E37	AC440-AC480V±10%, 60Hz, 3 phases Max. 7.3kVA (E35) / 5.1kVA (E37)		
	E45 / E47	AC380-AC415V±10%, 50/60Hz, 3 phases Max. 7.3kVA (E45) / 5.1kVA (E47)		
10. Ground	E25 / E27	Less than 100Ω (Dedicated for robots), Leakage current: max. 100mA Less than 10Ω (Dedicated for barrier)		
	E35 / E37	PE (Dedicated for robots), Leakage current: max. 10mA		
	E45 / E47	PE (Dedicated for robots), Leakage current: max. 10mA		
11. Installation environment		Ambient temperature: 0 - 45°C		
		Relative humidity: 35 - 85% (non-condensation)		
12. Teach Pendant		Intrinsically safe construction, Color LCD with touch panel Emergency Stop SW, Teach Lock SW and Enable SW		
13. Operation panel		Emergency Stop SW, Teach/Repeat SW		
14. External interface		Ethernet (100BASE-TX/10BASE-T): 2port inside controller USB, RS-232C: each 2port (1port on panel, 1port inside controller)		
15. Type of control		Teach mode: Joint, Base, Tool, Fixed Tool operation mode		
		Repeat mode: Joint, Linear, Circular interpolation mode		
16. Teaching method		Easy operation teaching or AS language programming		
17. Color		Munsell: 10GY9/1 equivalent		
18. Options				
	Additional GPIO	GPIO board (Input 32/Output 32) Max. 128		
	I/O signal connector	D-SUB 37 pin (male, female) with cover		
	Teach pendant option	Cable hook, connector for TP less		
	Teach pendant	non hazardous area: 1/3/5/7/10/15m		
	Connector Box	hazardous area: 1/3/5/7/10/15m		
	Operation panel option	Motor Power ON, Cycle start, RUN/HOLD, Error reset, Error lamp Remote/Local SW		
	External storage	USB memory		
	AC Outlet	AC100V (E2x / E4x), AC115V (E3x)		
	PC cable (RS-232C)	1.5m, 3m		
	Motor brake release	Manual brake release switch		
	Others	Cabinet light, GP Field BUS, Software PLC, Analog input/output, Conveyor Synchronization, Controller cooling unit, Paint Equipment Control and so on		

Consult Kawasaki about maintenance parts and spare parts.

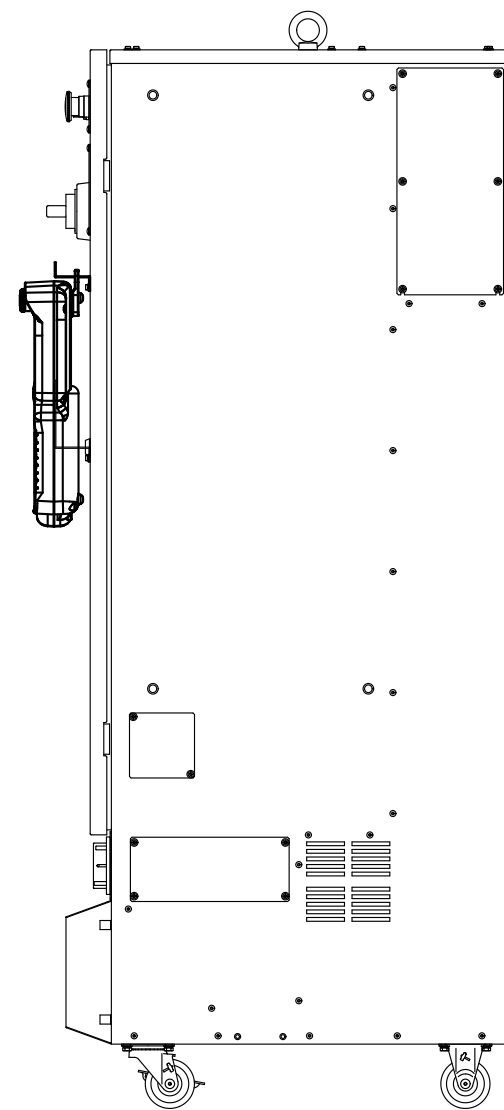
E25/E35/E45/E27/E37/E47 CONTROLLER



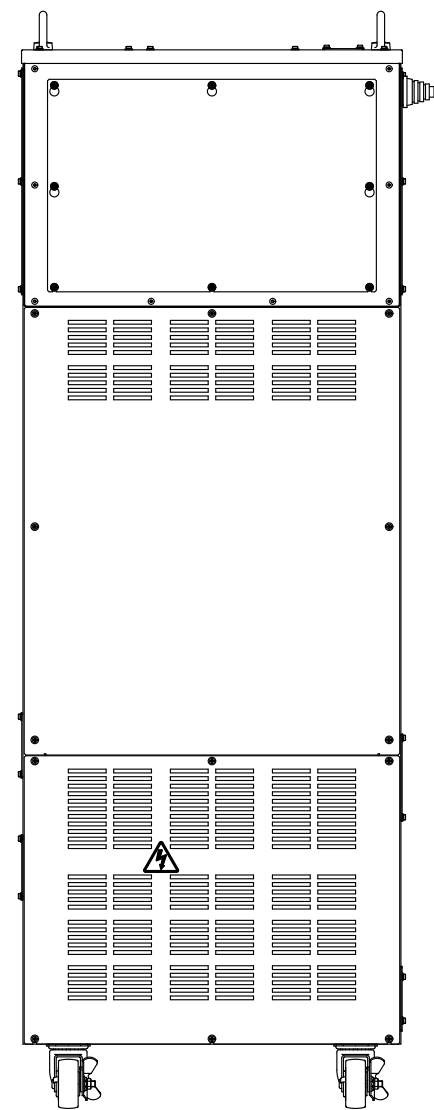
SIDE VIEW



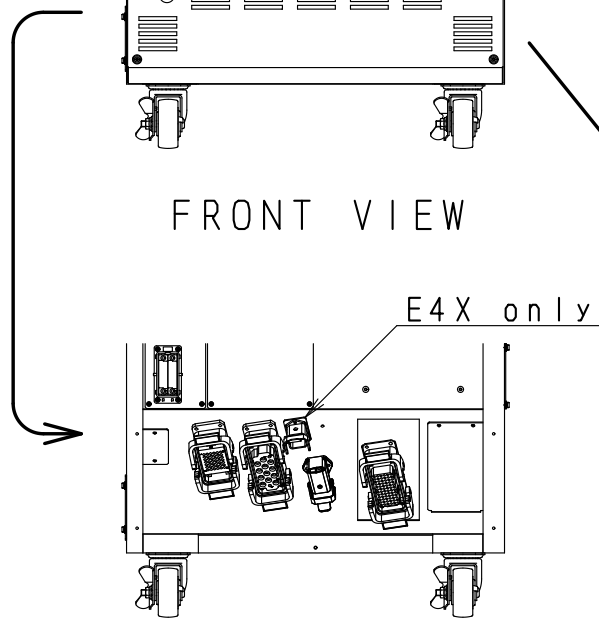
FRONT VIEW



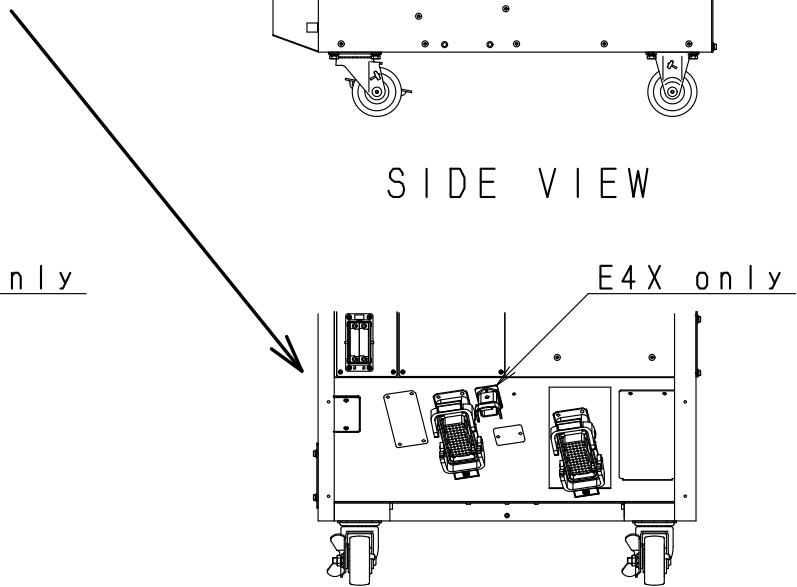
SIDE VIEW



REAR VIEW

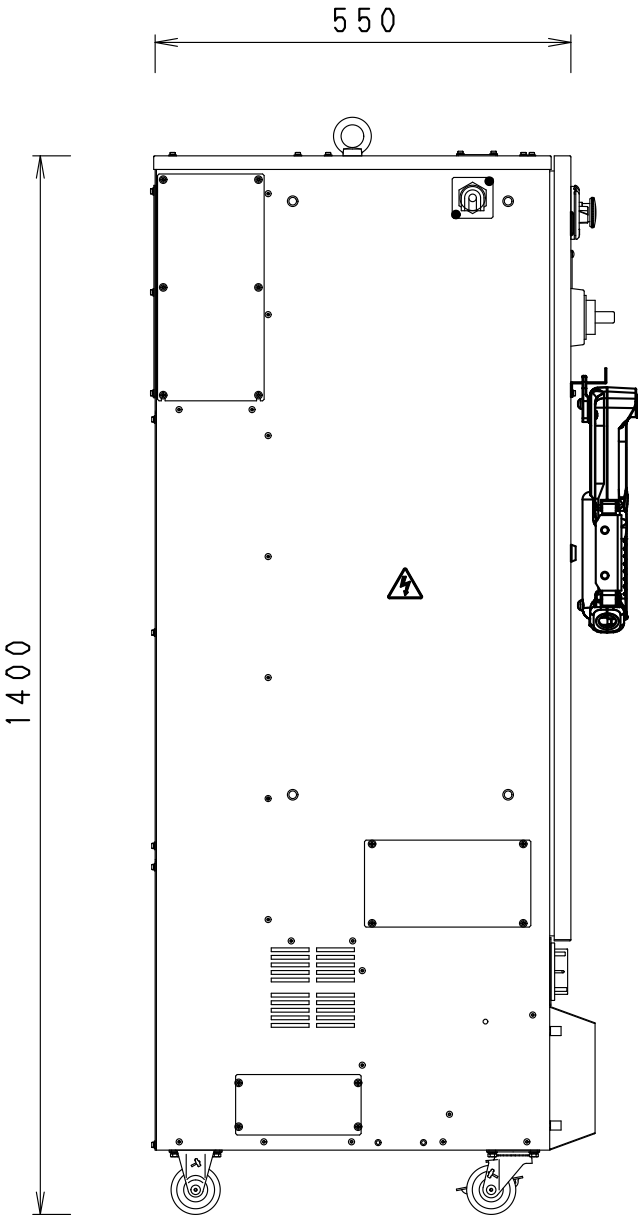


WITHOUT CONNECTOR COVER (Ex5)

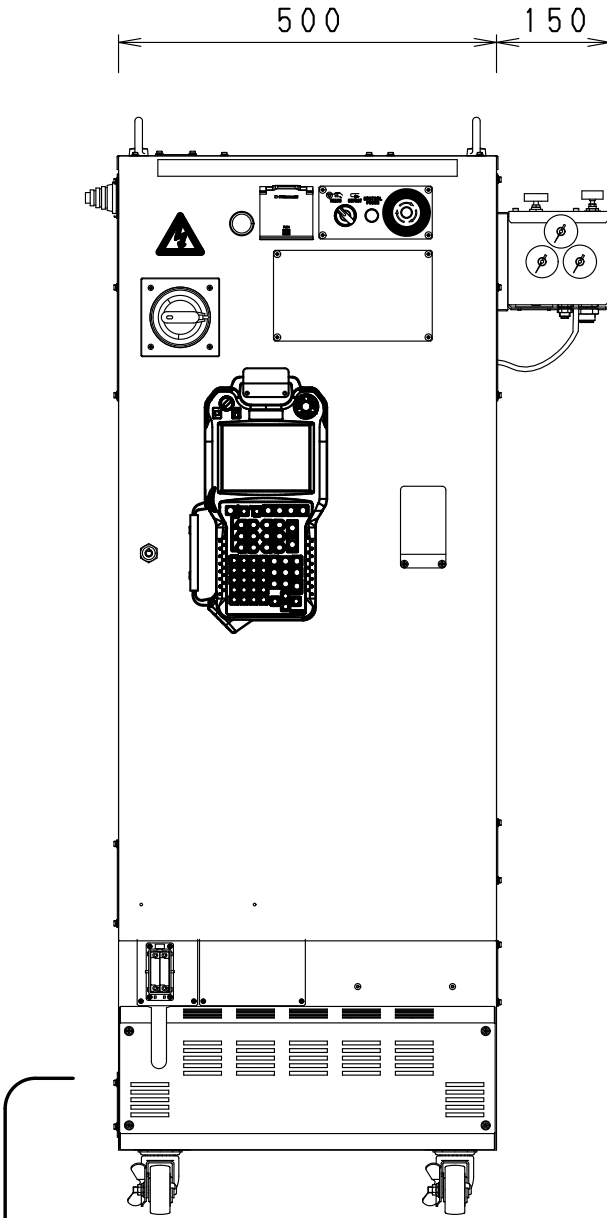


WITHOUT CONNECTOR COVER (Ex7)

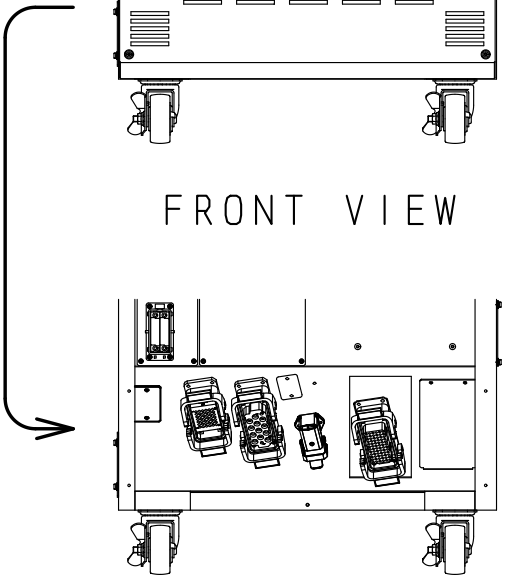
E25/E35 CONTROLLER (KJ12x/15x)



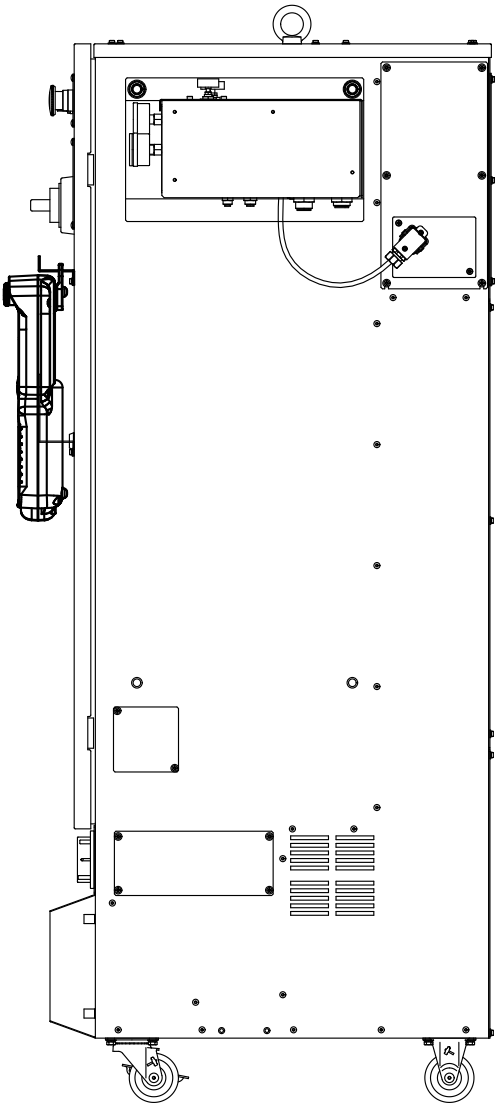
SIDE VIEW



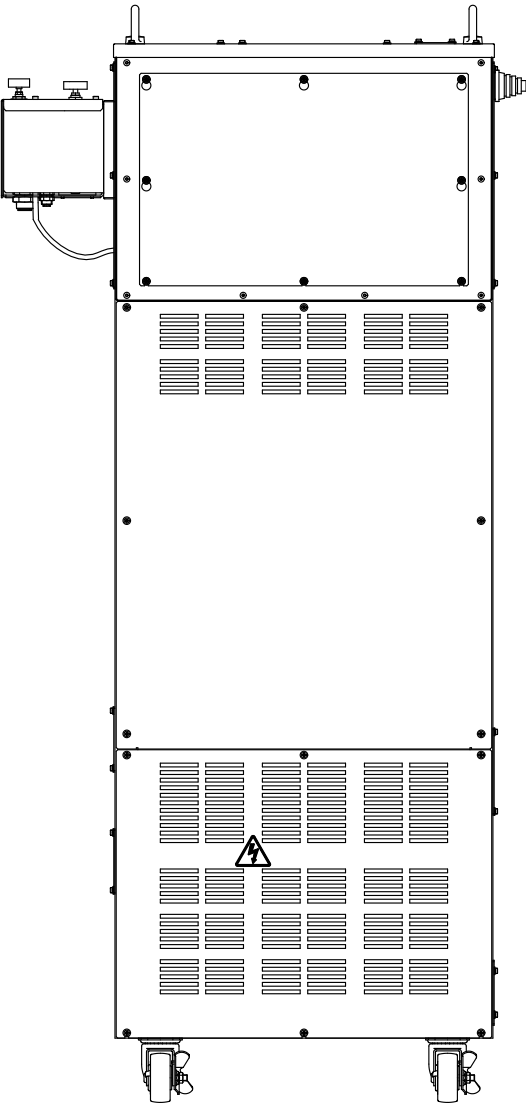
FRONT VIEW



WITHOUT CONNECTOR COVER

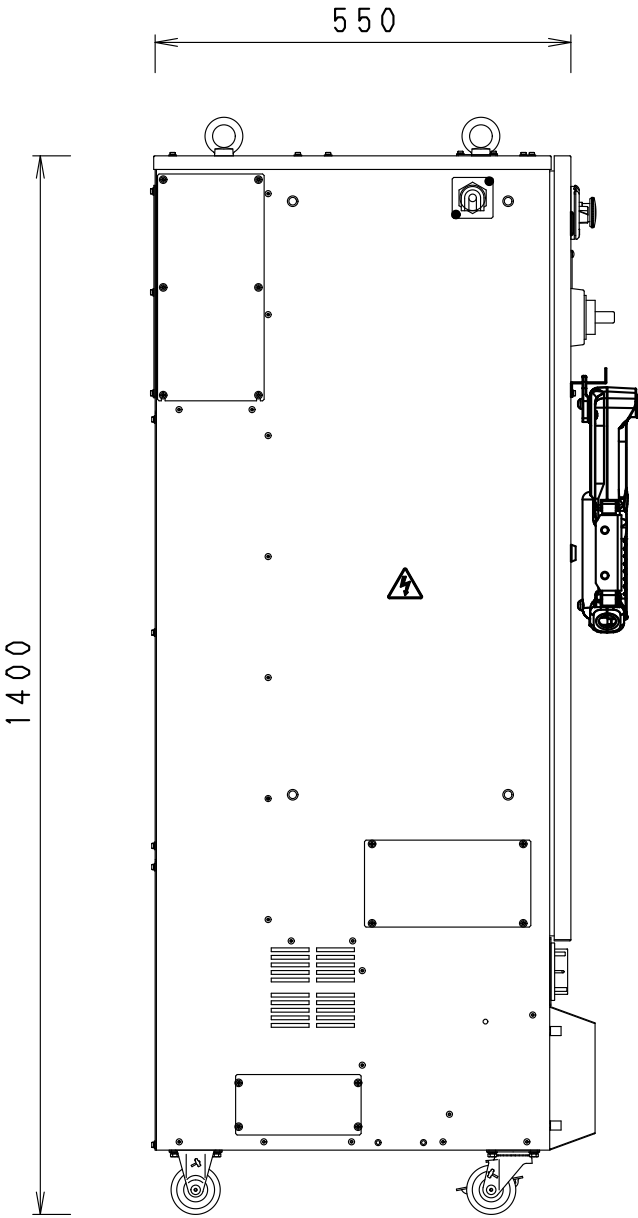


SIDE VIEW

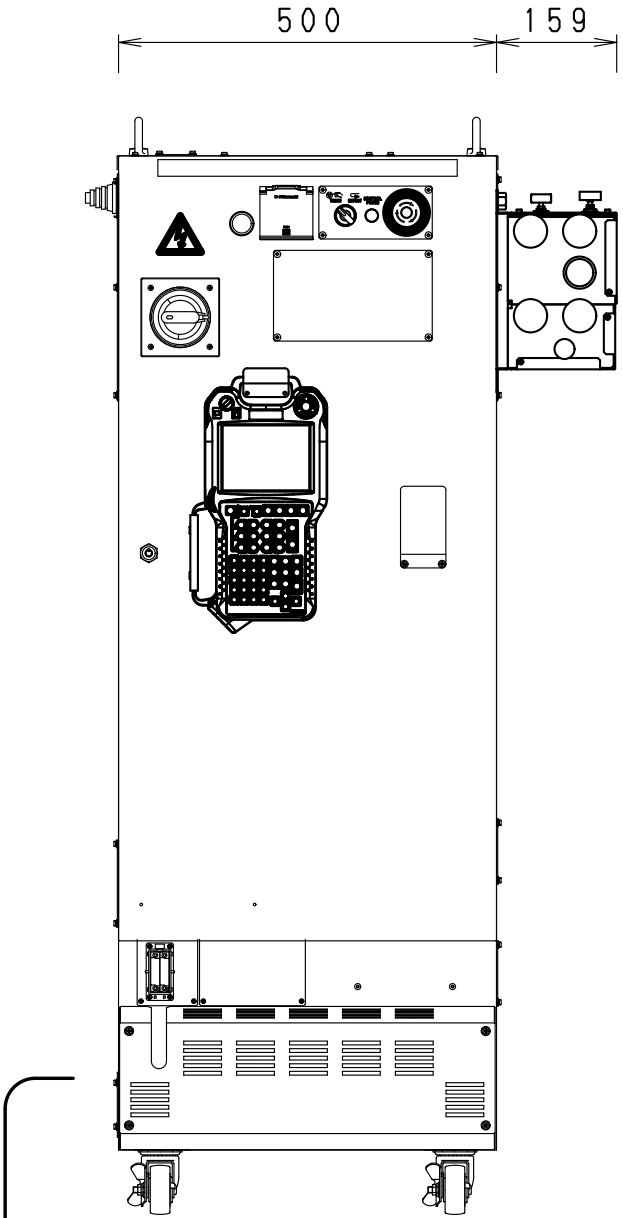


REAR VIEW

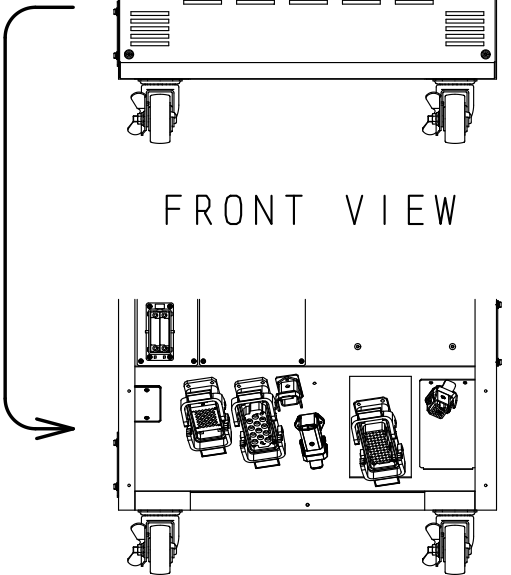
E45 CONTROLLER (KJ KHI PCU SPEC.)



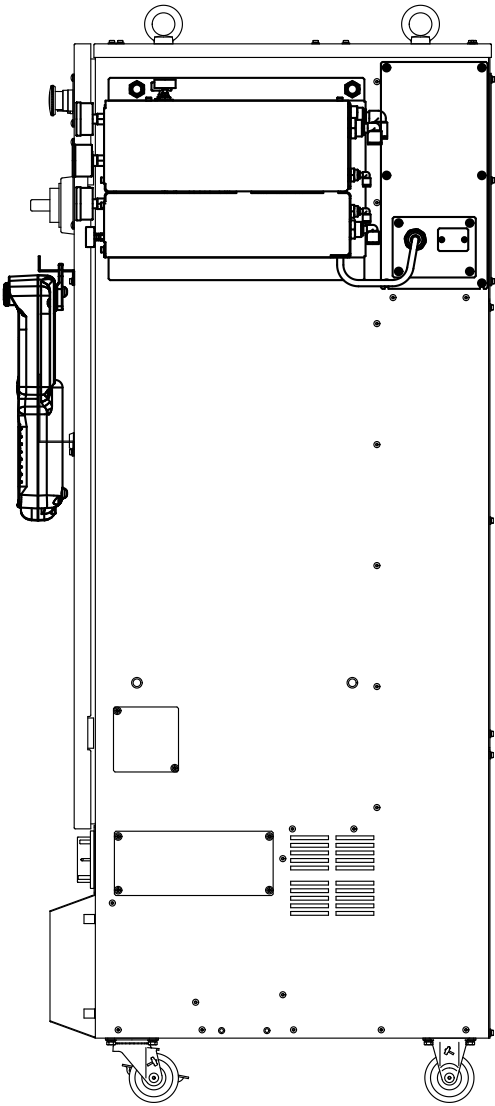
SIDE VIEW



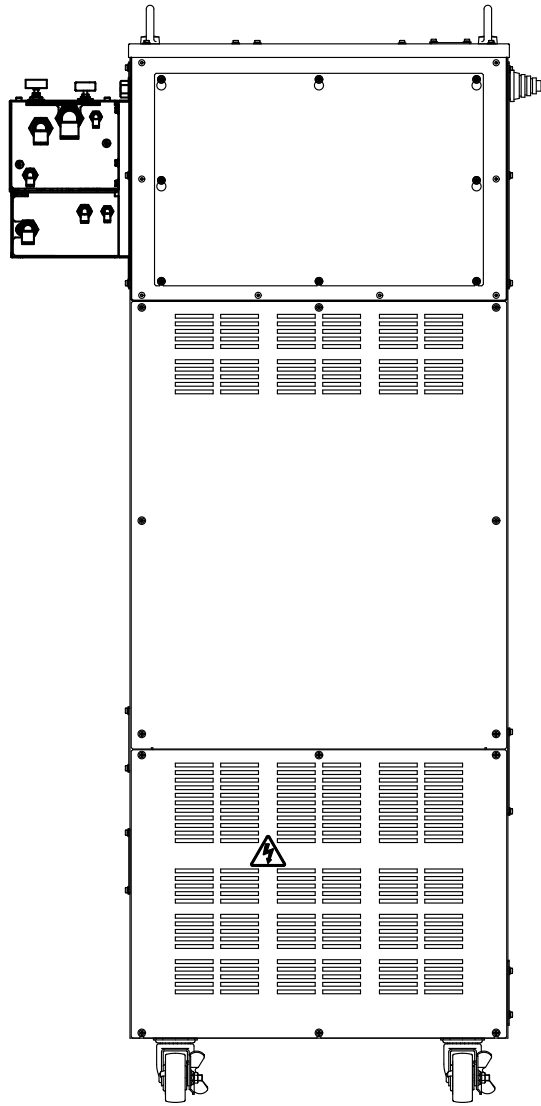
FRONT VIEW



WITHOUT CONNECTOR COVER



SIDE VIEW



REAR VIEW