

**RV-7F/7FL/7FLL**

Type		Unit	RV-7F(M)(C)	RV-7FL(M)(C)	RV-7FLL(M)(C)
Outside dimensions			<a href="#">RV-7F</a>	<a href="#">RV-7FL</a>	<a href="#">RV-7FLL</a>
Environmental specifications			IP40 (standard)/ IP67 (oil mist) *1/ ISOclass3(Clean) *2		
Installation			Floor type, ceiling type, (wall-mounted type *3)		
Maximum load capacity		kg	maximum 7 (Rated 7) *6		
Maximum reach radius		mm	713	908	1503
Operating range	J1	deg	480 (-240 to +240)		380 (-190 to +190)
	J2		240 (-115 to +125)	240 (-110 to +130)	240 (-90 to +150)
	J3		156 (-0 to +156)	162 (-0 to +162)	167.5 (-10 to +157.5)
	J4		400 (-200 to +200)		
	J5		240 (-120 to +120)		
	J6		720 (-360 to +360)		
Maximum speed	J1	deg/sec	360	288	234
	J2		401	321	164
	J3		450	360	219
	J4		337		375
	J5		450		
	J6		720		
Cycle time *3		sec	0.32	0.35	0.63
Position repeatability		mm	-0.02 to +0.02		-0.06 to +0.06
Tolerable moment	J4	Nm	16.2		
	J5		16.2		
	J6		6.86		
Tolerable amount of inertia	J4	kgm <sup>2</sup>	0.45		
	J5		0.45		
	J6		0.10		
Connected controller *5			CR750, CR751		
*1)	Please contact Mitsubishi Electric dealer since the environmental resistance may not be secured depending on the characteristics of oil you use. Air will need to be purged from the lines. For details, refer to the specifications sheet.				
*2)	Preservation of cleanliness levels depends on conditions of a downstream flow of 0.3 m/s in the clean room and internal robot suctioning. A fai8-mm coupler for suctioning is provided at the back of the base.				
*3)	The wall-mounted specification is a custom specification where the operating range of the J1-axis is limited.				

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*4)	The cycle time is based on back-and-forth movement over a vertical distance of 25 mm and horizontal distance of 300 mm when the load is 1 kg.
*5)	Select either controller according to your application. CR751-D: Standalone type, CR751-Q: iQ Platform compatible type.
*6)	The maximum load capacity indicates the maximum payload when the mechanical interface is facing downward.(-10 to +10deg to the perpendicular)