

## AC Servo Sales and Service

### FR-XC Series Multifunction Regenerative Converters Newly Supported as Successor Models of FR-CV Series Power Regeneration Common Converters and FR-RC Series Power Regeneration Converters

Thank you for your continued patronage of the Mitsubishi Electric general-purpose AC servo. The FR-XC series multifunction regenerative converters will be newly supported as successor models along with discontinuation of the FR-CV series power regeneration common converters and the FR-RC series power regeneration converters.

#### 1. Replaceable Converters Combined with Servo Amplifiers

The following show the combinations of the servo amplifiers and the converters where you can replace the FR-CV or the FR-RC with the FR-XC.

	Servo amplifier		Regeneration converter	
		Power supply voltage	FR-CV	FR-RC
MR-J4 series		200 V	Replaceable	Replaceable
		400 V	Replaceable	Replaceable
MR-J3 series		200 V	Replaceable	Replaceable
		400 V	Replaceable	Replaceable
MR-J2S series		200 V	Replaceable	Replaceable
		400 V	Not replaceable	Replaceable
MR-H series		200 V	Not replaceable	Replaceable

Note 1. The servo amplifiers (converter separation type) do not support regeneration converters.

#### 2. Successor Models of Converters

The following list the models of the FR-XC series corresponding to the models of the FR-CV and the FR-RC.

Power supply voltage	FR-XC		FR-CV		FR-RC	
	Model	Dedicated stand-alone reactor	Model	Dedicated stand-alone reactor	Model	Dedicated stand-alone reactor
3-phase 200 V AC	FR-XC-7.5K	FR-XCL-7.5K	FR-CV-7.5K(-AT)	FR-CVL-7.5K	-	-
	FR-XC-11K	FR-XCL-11K	FR-CV-11K(-AT)	FR-CVL-11K	-	-
	FR-XC-15K	FR-XCL-15K	FR-CV-15K(-AT)	FR-CVL-15K	FR-RC-15K	FR-BAL-15K or 22K
	FR-XC-22K	FR-XCL-22K	FR-CV-22K(-AT)	FR-CVL-22K	-	-
	FR-XC-30K	FR-XCL-30K	FR-CV-30K(-AT)	FR-CVL-30K	FR-RC-30K	FR-BAL-30K or 37K
	FR-XC-37K	FR-XCL-37K	FR-CV-37K	FR-CVL-37K	-	-
	FR-XC-55K	FR-XCL-55K	FR-CV-55K	FR-CVL-55K	FR-RC-55K	FR-BAL-55K
3-phase 400V AC	FR-XC-H7.5K	FR-XCL-H7.5K	FR-CV-H7.5K(-AT)	FR-CVL-H7.5K	-	-
	FR-XC-H11K	FR-XCL-H11K	FR-CV-H11K(-AT)	FR-CVL-H11K	-	-
	FR-XC-H15K	FR-XCL-H15K	FR-CV-H15K(-AT)	FR-CVL-H15K	FR-RC-H15K	FR-BAL-H15K or H22K
	FR-XC-H22K	FR-XCL-H22K	FR-CV-H22K(-AT)	FR-CVL-H22K	-	-
	FR-XC-H30K	FR-XCL-H30K	FR-CV-H30K(-AT)	FR-CVL-H30K	FR-RC-H30K	FR-BAL-H37K
	FR-XC-H37K	FR-XCL-H37K	FR-CV-H37K	FR-CVL-H37K	-	-
	FR-XC-H55K	FR-XCL-H55K	FR-CV-H55K	FR-CVL-H55K	FR-RC-H55K	FR-BAL-H55K

Note 1. Use the FR-XC in the common bus regeneration mode.

2. Use FR-XCCP01, P02, or P03 of the converter installation attachments (options) when replacing the FR-CV-(H)\_-AT with the FR-XC.

#### 3. Servo Amplifiers Supporting FR-XC

The target servo amplifiers support the FR-XC regardless of their manufacturing dates.

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