

CONDENSER FAN SPEED CONTROLLERS

Type **RGE/XGE**



SAGInoMIYA

CONDENSER FAN SPEED CONTROLLERS

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GENERAL DESCRIPTION

- Suitable for controlling the condenser fan speed of condensing unit, packaged air conditioner, and other units which are operated throughout a year.
- Keep condensing pressure constant in winter and intermediate seasons for stable operation.
- One of the following operation models is selectable when low speed.

Minimum Speed Operation

Cut Off Operation

- Excellent electric noise-resisting design.
- Applicable to the external forced operation switch(RGE).
- UL Recognized
- CE mark applicable.

SPECIFICATIONS

Max. working pressure : 681 psi [4.7MPa]
 Fluid teperature : -4 to 248°F [-20 to 120°C] (RGE) / -4 to 158°F [-20 to 70°C] (XGE)
 Control method : Phase Control
 Enclosure : IP54 (RGE) / IP65 (XGE)

TYPE NUMBER SELECTION

Catalog No.	*1 F.V.S. Setting Adjusting Range (psi[MPa])	*2 E.P.B. (psi[MPa]) Fixed	Electrical Ratnig		Function	Ambient Temp. (°F [°C])	Refrigerants	Factory Set (psi[MPa])	Wt. (lb[kg])
				Ampere					
RGE-Z1L4-7US	116 to 406 [0.8 to 2.8]	87[0.6]	Single phase 200 to 240 V.AC 50/60Hz	0.2 to 3A	At approx. 45% (50Hz), at approx. 35% (60Hz), Cut Off or Minimum Speed function is selectable with changeover switch. Default setting: Cut Off	-4 to 131 [-20 to 55]	R22,R404A,R407C (R134a)	*4 276 [1.9]	0.79[0.36]
RGE-Z1N4-7US		58[0.4]		0.2 to 4A					1.10[0.50]
RGE-Z1P4-7US				0.2 to 6A					1.19[0.54]
RGE-Z1Q4-7US				0.2 to 8A					1.28[0.58]
RGE-Z1L6-7US	232 to 566 [1.6 to 3.9]	131[0.9]		0.2 to 3A			R410A	464 [3.2]	0.79[0.36]
RGE-Z1N6-7US		116[0.8]		0.2 to 4A					1.10[0.50]
RGE-Z1P6-7US				0.2 to 6A					1.19[0.54]
RGE-Z1Q6-7US				0.2 to 8A					1.28[0.58]
RGE-Z3R4-7	116 to 406 [0.8 to 2.8]	58[0.4]	Three phase 200 to 240 V.AC 50/60Hz	0.2 to 5A	At approximately 35%, Cut Off or Minimum Speed function is selectable with changeover switch.	-4 to 122 [-20 to 50]	R22,R404A,R407C (R134a)	*4 232 [1.6]	3.09[1.40]
RGE-Z3T4-7		87[0.6]		0.2 to 7A					3.37[1.53]
RGE-Z3R6-7	232 to 566 [1.6 to 3.9]	116[0.8]		0.2 to 5A			R410A	464 [3.2]	3.09[1.40]
RGE-Z3T6-7				0.2 to 7A					3.37[1.53]
RGE-X3R4-7	116 to 406 [0.8 to 2.8]	58[0.4]	Three phase 380 to 415 V.AC 50/60Hz	0.2 to 5A		5 to 122 [-15 to 50]	R22,R404A,R407C (R134a)	*4 232 [1.6]	3.09[1.40]
RGE-X3R6-7	232 to 566 [1.6 to 3.9]	116[0.8]					R410A	464 [3.2]	
XGE-4CC-7US	145 to 363 [1.0 to 2.5]	87[0.6]	Singlephase 200 to 240 V.AC 50/60Hz	*3 0.2 to 4A (0.2 to 3A)	Cut Off	-4 to 131 [-20 to 55]	R22,R404A,R407C (R134a)	*4 276 [1.9]	0.42 [0.19]
XGE-4MC-7US					Minimum Speed				
XGE-6CC-7US	319 to 566 [2.2 to 3.9]	102[0.7]		Cut Off	R410A		406 [2.8]		
XGE-6MC-7US				Minimum Speed					

*1: The pressure at which the control delivers 95% output effective voltage (VRMS).

*2: Pressure width where effective voltage corresponds to the minimum speed or causes cut off operation

*3: Maximum ambient temperature is 104°F [40°C] in case the rated current is 4A.

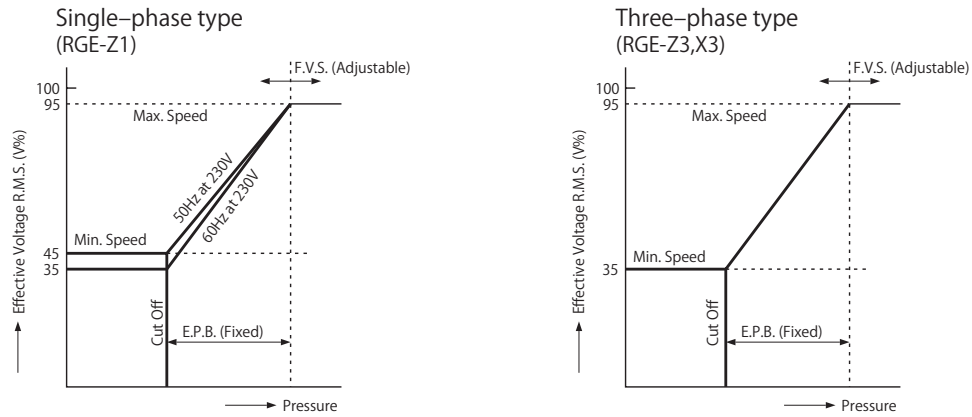
*4: When the refrigerant is R134a, please change the pressure setting.

• Min. speed: Fan motor will be kept running at the specific value (V%) when pressure band decreases less than E.P.B.

• Cut off: Fan motor will be stopped at the specific value (V%) when pressure band decreases less than E.P.B.

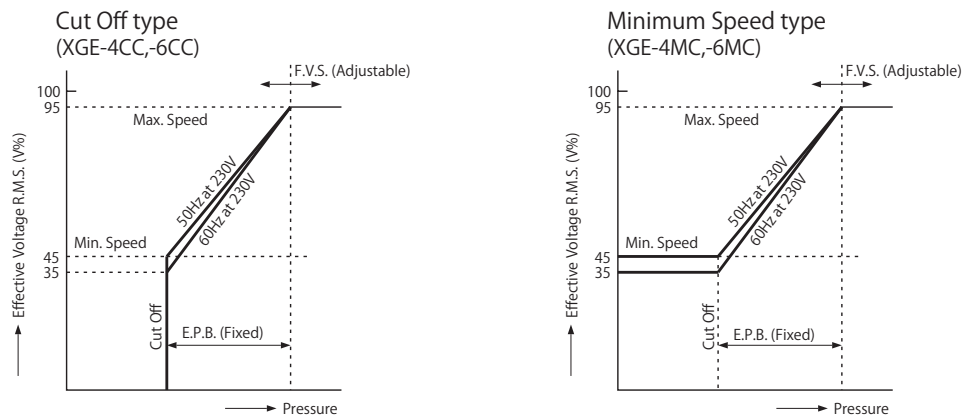
OPERATION

Type RGE



The operating characteristic may vary according to the voltage, frequency, and fan motor characteristics.

Type XGE

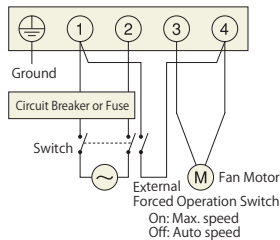


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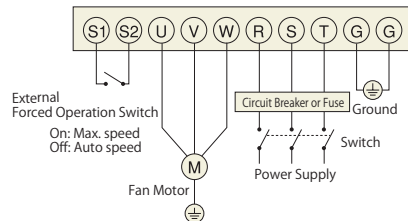
WIRING

Type RGE

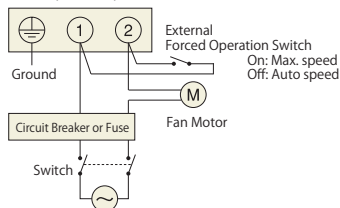
Single-phase type
for 4A,6A,8A(RGE-Z1)



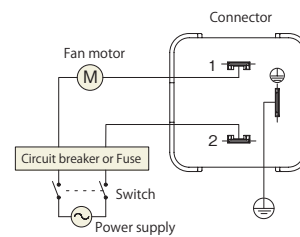
Three-phase type



for 3A(RGE-Z1)



Type XGE



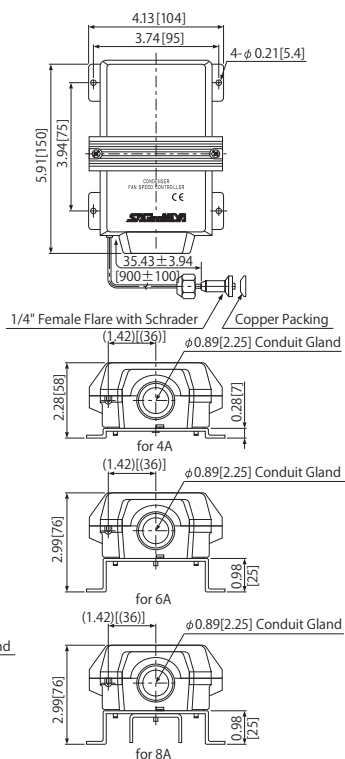
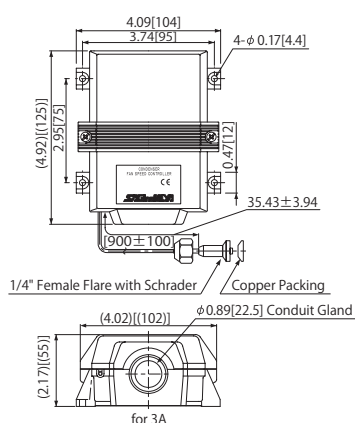
Supplied with a 4-direction convertible connector and gasket.

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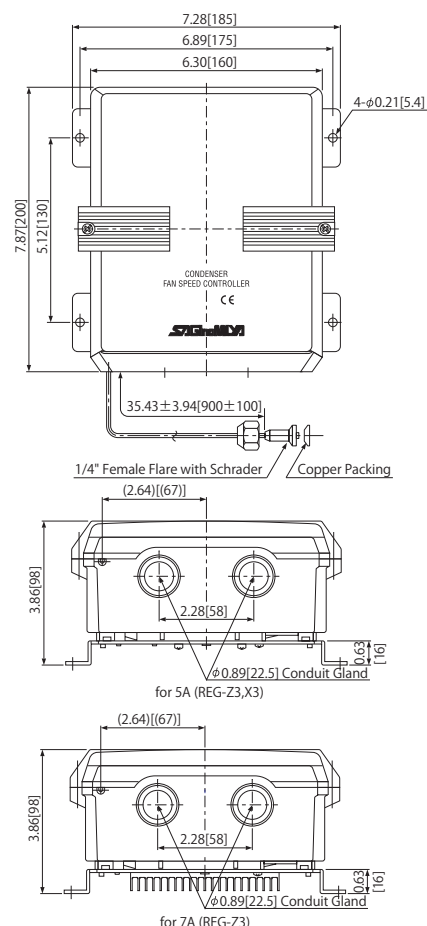
Type **RGE/XGE**

DIMENSIONS

RGE-Z1

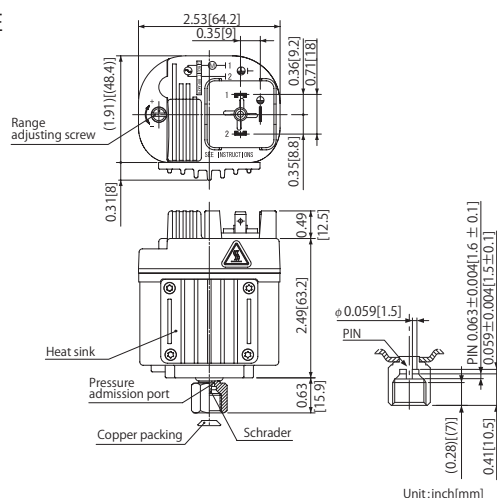


RGE-Z3,X3



DIMENSIONS

XGE



ACCESSORIES (XGE-1 Plug parts set)

Plug
Gasket
Plug fixing screw
Plastic bag

NOTES FOR SAFETY

Failure to read and follow all instruction carefully before installing or operating the product could cause personal injury and/or property damage.

Specifications are subject to change without notice.

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