

Model	SU-221	SU-241	SU-261	SU-641	SU-661	
Power supply	100V AC 1φ 50/60Hz, 115V AC 1φ 60Hz 220V AC 1φ 50/60Hz, 230V AC 1φ 50Hz 230V AC 1φ 50Hz (Compliance with CE Marking)			100V AC 1φ 50/60Hz, 200V AC 1φ 50/60Hz 220V AC 1φ 50/60Hz, 230V AC 1φ 50Hz 230V AC 1φ 50Hz (Compliance with CE Marking)		
Maximum current *1	100V	10.0A		13.5A	18.0A	
	115V	9.5A		13.0A	—	
	200V		—		10.0A	
	220V	6.0A		7.5A	9.0A	
	230V	5.5A		7.0A	8.5A	
Temperature control system	Balanced Temperature control system (BTC system)					
Operation temperature	+5 to +35°C (+41 to +95°F)					
Noise	At 1m from front of chamber, 1.2m from floor (depending on environment)					
	55dB		59dB		61dB	
Heat exhaust	3500kJ/h		4000kJ/h	5040kJ/h		
Performance *2	Temperature range *3	−20 to +150°C (−4 to +302°F)	−40 to +150°C (−40 to +302°F)	−60 to +150°C (−76 to +302°F)	−40 to +150°C (−40 to +302°F)	−60 to +150°C (−76 to +302°F)
	Temperature fluctuation *3	±0.3°C (−20 to +100°C) [±0.54°F (−4 to +212°F)] ±0.5°C (+100.1 to +150°C) [±0.9°F (+212.1 to +302°F)]	±0.3°C (−40 to +100°C) [±0.54°F (−40 to +212°F)] ±0.5°C (+100.1 to +150°C) [±0.9°F (+212.1 to +302°F)]	±0.3°C (−60 to +100°C) [±0.54°F (−76 to +212°F)] ±0.5°C (+100.1 to +150°C) [±0.9°F (+212.1 to +302°F)]	±0.3°C (−40 to +100°C) [±0.54°F (−40 to +212°F)] ±0.5°C (+100.1 to +150°C) [±0.9°F (+212.1 to +302°F)]	±0.3°C (−60 to +100°C) [±0.54°F (−76 to +212°F)] ±0.5°C (+100.1 to +150°C) [±0.9°F (+212.1 to +302°F)]
	Temperature uniformity *3	±0.5°C (−20 to +100°C) [±0.9°F (−4 to +212°F)] ±0.8°C (+100.1 to +150°C) [±1.44°F (+212.1 to +302°F)]	±0.5°C (−40 to +100°C) [±0.9°F (−40 to +212°F)] ±0.8°C (+100.1 to +150°C) [±1.44°F (+212.1 to +302°F)]	±0.5°C (−60 to +100°C) [±0.9°F (−76 to +212°F)] ±0.8°C (+100.1 to +150°C) [±1.44°F (+212.1 to +302°F)]	±0.5°C (−40 to +100°C) [±0.9°F (−40 to +212°F)] ±0.8°C (+100.1 to +150°C) [±1.44°F (+212.1 to +302°F)]	±0.5°C (−60 to +100°C) [±0.9°F (−76 to +212°F)] ±0.8°C (+100.1 to +150°C) [±1.44°F (+212.1 to +302°F)]
	Temperature heat-up rate	−20 to +150°C within 55 min	−40 to +150°C within 60 min	−60 to +150°C within 70 min	−40 to +150°C within 70 min	−60 to +150°C within 80 min
	Temperature pull-down rate	+20 to −20°C within 20 min	+20 to −40°C within 50 min	+20 to −60°C within 70 min	+20 to −40°C within 60 min	+20 to −60°C within 90 min
	Lowest attainable temperature	−20°C (−4°F)	−40°C (−40°F)	−60°C (−76°F)	−40°C (−40°F)	−60°C (−76°F)
	Exterior material	Painted steel				
Interior material	18-8 Cr-Ni stainless steel plate (SUS 304)					
Insulation	Rigid polyurethane foam, Glass wool					
Door	one-panel door (right handle, left hinge)					
Instrumentation panel	Temperature indicator controller, Overheat protector, Overcool protector					
Heater	400W		600W			
Refrigeration system	Mechanical single-stage refrigerator system		Mechanical cascade condenser refrigeration system			
Cooler	Plate fin cooler					
Refrigerator	Compressor: Air-cooled hermetically sealed compressor, Condenser: Air-cooled condenser, Expansion mechanism: Capillary tube					
Refrigerator capacity	400W		400W+400W			
Refrigerant	R404A		R404A, R23			
Fittings	Connecting terminal for temp recorder terminal, Specimen power supply control terminal External alarm terminal, External output terminal, Cable ports, Power cord/ plug, Drain pipe					
Dimensions	Inside dimensions (W×H×D mm/ in)	300×300×250/ 11.8×11.8×9.8 (excluding protrusions)		400×400×400/ 15.7×15.7×15.7 (excluding protrusions)		
	Outside dimensions (W×H×D mm/ in)	440×560×695/ 17.3×22.0×27.4 (730/ 28.7D when including protrusions)	440×560×785/ 17.3×22.0×30.9 (825/ 32.5 when including protrusions)	540×660×890/ 21.3×26.0×35.0 (930/ 36.6D when including protrusions)		
Capacity (L)	22.5			64		
Weight (kg)	66 (71 for 115, 220, 230V)		95	115		

\*1 At +23°C ambient temperature, value at stable voltage application. For SU-641/ 661, make sure to check the capability of your power equipment in advance.

\*2 At +23°C ambient temperature, value at stable voltage application with no specimen. Lowest attainable temperature value at ambient of up to +30°C.

\*3 In accordance with Standard for Performance of Humidity Chamber (JTM-K01-1998) of standard of Japan Testing Machinery Association.