



-70 to +100°C(+180°C) / 20 to 98%RH

NAME	Silvery Emperor series				
MODEL	SE(SSE)-73KT	SE(SSE)-74KT	SE(SSE)-75KT	SE(SSE)-77KT	SE(SSE)-78KT
POWER SUPPLY	AC 200V ±10% 3φ 50 / 60Hz				
ELB	40A	40A	50A	60A	75A
CONTROL SYSTEM	Balanced Temperature and Humidity Control system (BTHC system)				
OPERATING CONDITIONS	Ambient: +10 to +30° C, 20 to 80%RH				
PERFORMANCE					
Temp. / Humid. range	-70 to +100° C(+180° C) / 20 to 98%RH				
Fluctuation	±0.3° C(-70 to +100° C), ±1.0° C(+100 to +180° C) / ±2.5 %RH				
Variation in space	2.0° C(-70 to +100° C), 4.0° C(+100 to +180° C) / 5.0 %RH				
Temperature rise time	-70 to +100° C within 60 min. (-70 to +180° C within 90 min.) at refrigerator OFF				
Temperature fall time	+20 to -70° C within 90 min.				
Lowest temperature	-70° C				
CONFIGURATION					
Controller	KATO KT instrumentation				
Internal material	18Cr-8Ni stainless steel plate, grinding finished				
External material	18Cr stainless steel plate, line finished				
Insulating material	Glass wool / Silicone packing				
REFRIGERATING SYSTEM	Dual condensing refrigerating system : Air cooling or Water cooling				
Refrigerator	Complete closed type compressor				
Out put	1.5 / 1.5 kW	2.2 / 2.2 kW	2.2 / 2.2 kW	2.2 / 2.2 kW	3.0 / 3.0 kW
Power ability changing	Multi step automatic switching system by micro computer control				
Cooling coil	Plate fin cooler : Corrosion prevention coating finishes				
DRY HEATER	stainless steel sheath heater				
WET HEATER	stainless steel plug heater				
BLOWER FAN	Sirocco fan				
ACCESSORIES	Observation window : W250×H350mm with Heating wire, Cable hole 30φ×1pc, Adjustable shelf ×2 sets, Halogen room lamp, Caster, Adjuster				
SAFETY UNITS	Earth leakage circuit breaker, Boiling without water prevention unit, Mixing motor overload relay, Overload and short circuit protector for SSR, Overload and short circuit protecting fuse for operating circuit, Phase reverse relay, Water pressure switch for water cooling type, Refrigerator overload relay, Alarm of temperature limit error, Overheat prevention unit, Refrigerator pressure switch				
WATER SUPPLYING SYSTEM	Water pump-up with natural gravitation method or Supply from waterworks				
Water tank	fixed tank on the chamber 1 set				
OPTIONS	Recorder, Cable hole 30, 50, 100φ, Shelf, Operation holes, Interface RS-232C, Excessive cooling preventive unit, Deionizer for humidifying water, Gauze wick, Tank with automatic pump-up function, See-through door, Time signal unit, Defroster				
INTERNAL CAPACITY (L)	175	288	441	800	1000
INTERNAL DIMENSIONS : W.H.D.mm	500×700×500	600×800×600	700×900×700	1000×1000×800	1000×1000×1000
EXTERNAL DIMENSIONS : W.H.D.mm	1110×1600×975	1260×1760×1075	1330×1860×1175	1730×2075×1275	1730×2075×1475
WEIGHT (kg)	400	450	530	700	760

*The performance values are based on JTM K-09, IEC60068-3-6:2001, and no specimen inside the test area.

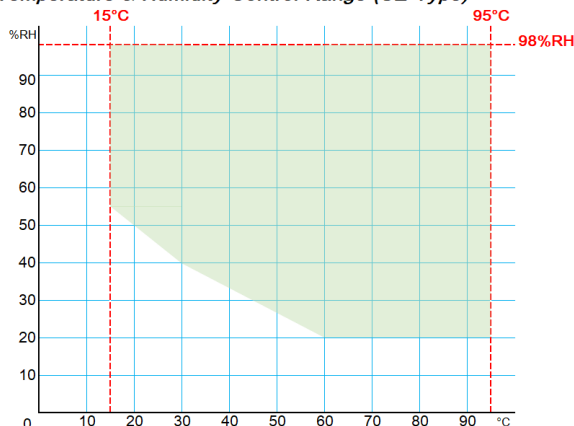
*The rising and falling performances are given at an ambient temperature of +20° C, or with a cooling water temperature of +25° C.

*Humidifying water quality should be PH 6.0 to 7.2, electrical conducting rate is less than 0.02mS/cm.

*The descriptions, inside the () in the table, are for the +180° C specification SSE model.

*The above specifications may be changed for any improvement of product without giving any preliminary notification.

Temperature & Humidity Control Range (SE-Type)



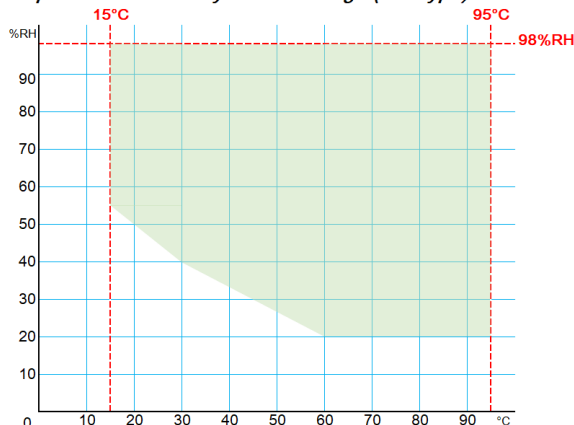


-40 to +100°C(+180°C) / 20 to 98%RH

NAME	Silvery Emperor series				
MODEL	SE(SSE)-43KT	SE(SSE)-44KT	SE(SSE)-45KT	SE(SSE)-47KT	SE(SSE)-48KT
POWER SUPPLY	AC 200V ±10% 3φ 50 / 60Hz				
ELB	30A	30A	30A	50A	50A
CONTROL SYSTEM	Balanced Temperature and Humidity Control system (BTHC system)				
OPERATING CONDITIONS	Ambient: +10 to +30° C, 20 to 80%RH				
PERFORMANCE					
Temp. / Humid. range	-40 to +100° C(+180° C) / 20 to 98%RH				
Fluctuation	±0.3° C(-40 to +100° C), ±1.0° C(+100 to +180° C) / ±2.5 %RH				
Variation in space	2.0° C(-40 to +100° C), 4.0° C(+100 to +180° C) / 5.0 %RH				
Temperature rise time	-40 to +100° C within 45 min. (-40 to +180° C within 80 min.) at refrigerator OFF				
Temperature fall time	+20 to -40° C within 60 min.				
Lowest temperature	-40° C				
CONFIGURATION					
Controller	KATO KT instrumentation				
Internal material	18Cr-8Ni stainless steel plate, grinding finished				
External material	18Cr stainless steel plate, ine finished				
Insulating material	Glass wool / Silicone packing				
REFRIGERATING SYSTEM	Single condensing refrigerating system : Air cooling or Water cooling				
Refrigerator	Complete closed type compressor				
Out put	1.5 kW	1.5 kW	1.5 kW	2.2 kW	2.2 kW
Power ability changing	Multi step automatic switching system by micro computer control				
Cooling coil	Plate fin cooler : Corrosion prevention coating finishes				
DRY HEATER	stainless steel sheath heater				
WET HEATER	stainless steel plug heater				
BLOWER FAN	Sirocco fan				
ACCESSORIES	Observation window : W250×H350mm with Heating wire, Cable hole 30φ×1pc, Adjustable shelf ×2 sets, Halogen room lamp, Caster, Adjuster				
SAFETY UNITS	Earth leakage circuit breaker, Boiling without water prevention unit, Mixing motor overload relay, Overload and short circuit protector for SSR, Overload and short circuit protecting fuse for operating circuit, Phase reverse relay, Water pressure switch for water cooling type, Refrigerator overload relay, Alarm of temperature limit error, Overheat prevention unit, Refrigerator pressure switch				
WATER SUPPLYING SYSTEM	Water pump-up with natural gravitation method or Supply from waterworks				
Water tank	fixed tank on the chamber 1 set				
OPTIONS	Recorder, Cable hole 30, 50, 100φ, Shelf, Operation holes, Interface RS-232C, Excessive cooling preventive unit, Deionizer for humidifying water, Gauze wick, Tank with automatic pump-up function, See-through door, Time signal unit, Defroster				
INTERNAL CAPACITY (L)	175	288	441	800	1000
INTERNAL DIMENSIONS : W.H.D.mm	500×700×500	600×800×600	700×900×700	1000×1000×800	1000×1000×1000
EXTERNAL DIMENSIONS : W.H.D.mm	1020×1650×950	1120×1650×1050	1220×1750×1150	1535×1910×1250	1535×1910×1450
WEIGHT (kg)	320	370	420	670	720

- *The performance values are based on JTM K-09, IEC60068-3-6:2001, and no specimen inside the test area.
- *The rising and falling performances are given at an ambient temperature of +20° C, or with a cooling water temperature of +25° C.
- *Humidifying water quality should be PH 6.0 to 7.2, electrical conducting rate is less than 0.02mS/cm.
- *The descriptions, inside the () in the table, are for the +180° C specification SSE model.
- *The above specifications may be changed for any improvement of product without giving any preliminary notification.

Temperature & Humidity Control Range (SE-Type)





-25 to +100°C(+180°C) / 20 to 98%RH

NAME	Silvery Emperor series				
MODEL	SE(SSE)-23KT	SE(SSE)-24KT	SE(SSE)-25KT	SE(SSE)-27KT	SE(SSE)-28KT
POWER SUPPLY	AC 200V ±10% 3φ 50 / 60Hz				
ELB	20A	30A	30A	40A	50A
CONTROL SYSTEM	Balanced Temperature and Humidity Control system (BTHC system)				
OPERATING CONDITIONS	Ambient: +10 to +30° C, 20 to 80%RH				
PERFORMANCE					
Temp. / Humid. range	-25 to +100° C(+180° C) / 20 to 98%RH				
Fluctuation	±0.3° C(-25 to +100° C), ±1.0° C(+100 to +180° C) / ±2.5 %RH				
Variation in space	2.0° C(-25 to +100° C), 4.0° C(+100 to +180° C) / 5.0 %RH				
Temperature rise time	-25 to +100° C within 45 min. (-25 to +180° C within 80 min.) at refrigerator OFF				
Temperature fall time	+20 to -25° C within 60 min.				
Lowest temperature	-25° C				
CONFIGURATION					
Controller	KATO KT instrumentation				
Internal material	18Cr-8Ni stainless steel plate, grinding finished				
External material	18Cr stainless steel plate, line finished				
Insulating material	Glass wool / Silicone packing				
REFRIGERATING SYSTEM	Single condensing refrigerating system : Air cooling or Water cooling				
Refrigerator	Complete closed type compressor				
Out put	0.75 kW	0.75 kW	1.1 kW	1.1 kW	1.5 kW
Power ability changing	Multi step automatic switching system by micro computer control				
Cooling coil	Plate fin cooler : Corrosion prevention coating finishes				
DRY HEATER	stainless steel sheath heater				
WET HEATER	stainless steel plug heater				
BLOWER FAN	Sirocco fan				
ACCESSORIES	Observation window : W250×H350mm with Heating wire, Cable hole 30φ×1pc, Adjustable shelf ×2 sets, Halogen room lamp, Caster, Adjuster				
SAFETY UNITS	Earth leakage circuit breaker, Boiling without water prevention unit, Mixing motor overload relay, Overload and short circuit protector for SSR, Overload and short circuit protecting fuse for operating circuit, Phase reverse relay, Water pressure switch for water cooling type, Refrigerator overload relay, Alarm of temperature limit error, Overheat prevention unit, Refrigerator pressure switch				
WATER SUPPLYING SYSTEM	Water pump-up with natural gravitation method or Supply from waterworks				
Water tank	fixed tank on the chamber 1 set				
OPTIONS	Recorder, Cable hole 30, 50, 100φ, Shelf, Operation holes, Interface RS-232C, Excessive cooling preventive unit, Deionizer for humidifying water, Gauze wick, Tank with automatic pump-up function, See-through door, Time signal unit, Defroster				
INTERNAL CAPACITY (L)	175	288	441	800	1000
INTERNAL DIMENSIONS : W.H.D.mm	500×700×500	600×800×600	700×900×700	1000×1000×800	1000×1000×1000
EXTERNAL DIMENSIONS : W.H.D.mm	1020×1650×950	1120×1650×1050	1220×1750×1150	1520×1910×1250	1520×1910×1450
WEIGHT (kg)	310	370	400	600	650

- *The performance values are based on JTM K-09, IEC60068-3-6:2001, and no specimen inside the test area.
- *The rising and falling performances are given at an ambient temperature of +20° C, or with a cooling water temperature of +25° C.
- *Humidifying water quality should be PH 6.0 to 7.2, electrical conducting rate is less than 0.02mS/cm.
- *The descriptions, inside () in the table, are for the +180° C specification SSE model.
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Temperature & Humidity Control Range (SE-Type)

