### LOW TEMPERATURE & HUMIDITY CHAMBER



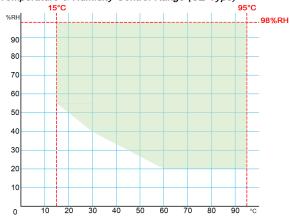
## -70 to +100°C(+180°C) / 20 to 98%RH

NAME	Silvery Emperor series						
	SE(SSE)-73KT	SE(SSE)-74KT	, ,		SE(SSE)-78KT		
MODEL			SE-type is +100° C				
POWER SUPPLY	AC 200V $\pm 10\%$ 3 $\phi$ 50 / 60Hz						
ELB	40A	40A	50A	60A	75A		
CONTROL SYSTEM	Bal	anced Temperature a	and Humidity Control	system (BTHC syst	em)		
OPERATING CONDITIONS			+10 to +30° C, 20 t				
PERFORMANCE							
Temp. / Humid. range			0° C(+180° C) / 20				
Fluctuation	±0		C), $\pm 1.0^{\circ}$ C(+100 to		6RH		
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 +10	0° C within 60 min.	(-70 to +180° C with	nin 90 min.) at refrige	erator OFF		
Temperature fall time		+20	to -70° C within 90	min.			
Lowest temperature			-70° C				
CONFIGURATION							
Controller			TO KT instrumentati				
Internal material	18Cr-8Ni stainless steel plate, grinding finished						
External material			nless steel plate, line				
Insulating material REFRIGERATING SYSTEM	Glass wool / Silicone packing						
Refrigerator	Dual condensing refrigerating system : Air cooling or Water cooling 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			witching system by n				
Cooling coil	111				01		
DRY HEATER	Plate fin cooler : Corrosion prevention coating finishes stainless steel sheath heater						
WET HEATER			inless steel plug hea				
BLOWER FAN	Sincco fan						
ACCESSORIES	Observation window : W250 $\times$ H350mm with Heating wire, Cable hole 30 $\phi$ $\times$ 1pc,						
	Adjustable shelf ×2 sets, Halogen room lamp, Caster, Adjuster						
	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,						
SAFETY UNITS	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 tank	fixed tank on the chamber 1 set						
OPTIONS	Recorder, Cable hole 30, 50, 100 $\phi$ , 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	$1000\!\times\!1000\!\times~800$	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

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Temperature & Humidity Control Range (SE-Type)





### LOW TEMPERATURE & HUMIDITY CHAMBER



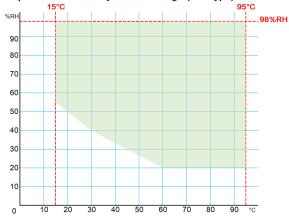
### -40 to +100°C(+180°C) / 20 to 98%RH

NAME	Silvery Emperor series					
MODEL	SE(SSE)-43KT	SE(SSE)-44KT	SE(SSE)-45KT	SE(SSE)-47KT	SE(SSE)-48KT	
	Highest temperature of SE-type is +100° C (SSE-type is +180° C)					
POWER SUPPLY	AC 200V ±10% 3					
ELB	30A	30A	30A	50A	50A	
CONTROL SYSTEM	Bal	anced Temperature a	and Humidity Control	system (BTHC syst	em)	
OPERATING CONDITIONS		Ambient:	+10 to +30° C, 20 t	o 80%RH		
PERFORMANCE			<u> </u>			
Temp. / Humid. range	-40 to +100° C(+180° C) / 20 to 98%RH ±0.3° C(-40 to +100° C), ±1.0° C(+100 to +180° C) / ±2.5 %RH					
Fluctuation	$\pm 0$				6RH	
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 +10	0° C within 45 min.	(-40 to +180° C with	nin 80 min.) at refrige	erator 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 Single condensing refrigerating system : Air cooling or Water cooling					
REFRIGERATING SYSTEM	Sing	gle condensing refrig	erating system : Air	cooling or Water coo	oling	
Refrigerator			ete closed type comp			
Out put	1.5 kW	1.5 kW	1.5 kW	2.2 kW	2.2 kW	
Power ability changing	M			nicro computer contr	01	
Cooling coil			Corrosion prevention	U U		
DRY HEATER			nless steel sheath he			
WET HEATER		sta	inless steel plug hea	iter		
BLOWER FAN			Sirocco fan		<b>A</b>	
ACCESSORIES	Observation window : W250 $ imes$ H350mm with Heating wire, Cable hole 30 $\phi$ $ imes$ 1pc, Adjustable shelf $ imes$ 2 sets, Halogen room lamp, Caster, Adjuster					
	Earth leakage circuit breaker, Boiling without water prevention unit,					
	Mixing motor overload relay, Overload and short circuit protector for SSR,					
SAFETY UNITS	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,					
WATER SUPPLYING SYSTEM	Overheat prevention unit, Refrigerator pressure switch					
WATER SUPPLYING SYSTEM 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 :	170					
W.H.D.mm	500× 700× 500	600× 800× 600	700× 900× 700	1000×1000× 800	1000×1000×1000	
EXTERNAL DIMENSIONS :	1020×1650× 050	1120 × 1650 × 1050	1220 × 1750 × 1150	1535×1910×1250	$1535 \times 1010 \times 1450$	
W.H.D.mm	1020 ~ 1050 ~ 950	1120 ~ 1050 ~ 1050	1220 ~ 1750 ~ 1150	1333 / 1910 / 1250	1555 ~ 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.
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Temperature & Humidity Control Range (SE-Type)





### LOW TEMPERATURE & HUMIDITY CHAMBER



# -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	
	Highest temperature of SE-type is +100° C (SSE-type is +180° C)					
POWER SUPPLY				/ 60Hz	-	
ELB	20A	30A	30A	40A	50A	
CONTROL SYSTEM	Bal		and Humidity Control		em)	
OPERATING CONDITIONS		Ambient:	+10 to +30° C, 20 t	o 80%RH		
PERFORMANCE			<u> </u>			
Temp. / Humid. range			$0^{\circ}$ C(+180° C) / 20			
Fluctuation	±0.		C), $\pm 1.0^{\circ}$ C(+100 to		₀KH	
Variation in space	05 / /0	$2.0^{\circ}$ C(-25 to +100^{\circ})	C), 4.0° C(+100 to	<u>+180°C)/5.0%RH</u>		
Temperature rise time	-25 to +10		(-25 to +180° C with		erator OFF	
Temperature fall time	+20 to -25° C within 60 min.					
Lowest temperature	-25° C					
CONFIGURATION						
Controller Internal material	KATO KT instrumentation					
External material	18Cr-8Ni stainless steel plate, grinding finished					
Insulating material	18Cr stainless steel plate, line finished					
REFRIGERATING SYSTEM	Glass wool / Silicone packing Single condensing refrigerating system : Air cooling or Water cooling					
Refrigerator	Oni	Comple	ete closed type comp		anny	
Out put	0.75 kW	0.75 kW	1.1 kW	1.1 kW	1.5 kW	
Power ability changing						
Cooling coil	Multi step automatic switching system by micro computer control Plate fin cooler : Corrosion prevention coating finishes					
DRY HEATER			nless steel sheath he	3		
WET HEATER	stainless steel plug heater					
BLOWER FAN			Sirocco fan			
ACCESSORIES	Observation window : W250 $ imes$ H350mm with Heating wire, Cable hole 30 $\phi$ $ imes$ 1pc, Adjustable shelf $ imes$ 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,					
SALETTONITS	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, $100\varphi$ , 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	$1000 \times 1000 \times 800$	1000×1000×1000	
EXTERNAL DIMENSIONS :	1020×1650× 050	$1120 \times 1650 \times 1050$	1220×1750×1150	1520 × 1010 × 1250	1520 × 1010 × 1450	
W.H.D.mm	1020 ~ 1050 ~ 950	1120 ~ 1050 ~ 1050	1220 ~ 1750 ~ 1150	1320 ~ 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,

\*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.

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