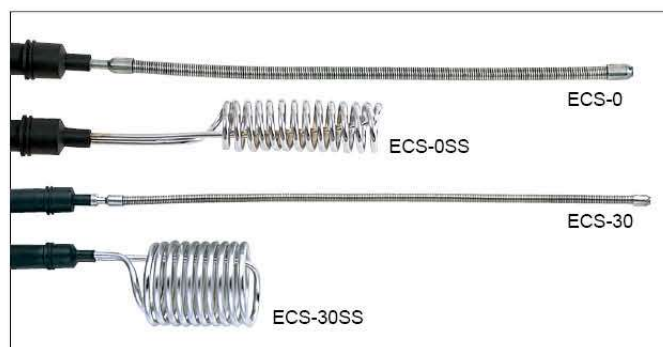
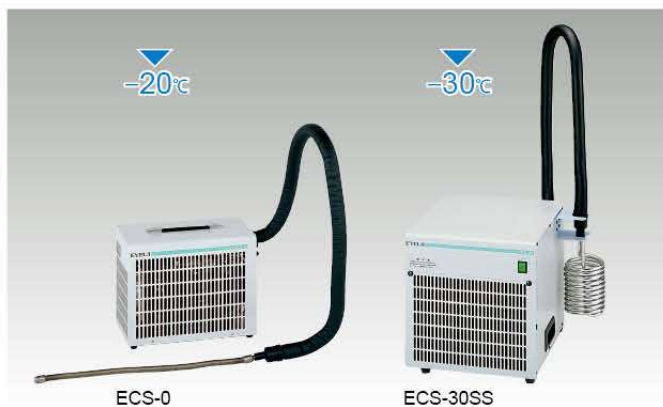


Immersion Cooler ECS-0·0SS·30·30SS

For maintaining liquid temperature below room temperature: -20 and -30°C

Features

- Desk top type light weight cooler.
- With holder for cooling part.
- High cooling capacity of 550·620W.



Product Name	Model	Cat. No.
Immersion Cooler	ECS-0SS	113360
Water Bath	NTT-2200	195420
Cooler Clamp	CHC-2	181840

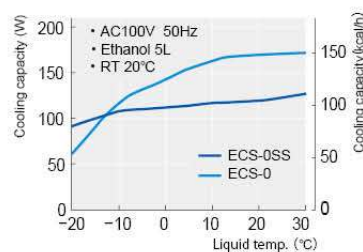
Specifications

Product Name	Immersion Cooler			
	ECS-0	ECS-0SS	ECS-30	ECS-30SS
Model				
Cat. No.	113350	113360	113390	113410
Lowest temperature	-20°C		-30°C	
Cooling capacity at 10°C(50/60Hz)	160/160W	120/120W	550/550W	620/640W
Safety functions	Fuse, Refrigerator overload relay		Circuit protector, Refrigerator overload relay	
Refrigerator & coolant	Air cooling, 85W, R134a		Air cooling, 400W, R404a	
Maximum liquid temperature	30°C			
Cooling part material	SUS flexible	SUS spiral	SUS flexible	SUS spiral
Cooling part dimensions (mm)	OD15 x 500L	Wired OD40 x 140L	OD15 x 1100L	Wired OD115 x 140L
Bath dimensions (mm)	ID90 x 225H 1.4L		ID90 x 225H 1.4L	
Dimensions (mm) & Weight	340W x 194D x 265H 14kg		358W x 420D x 370H 27kg	
Power source	300VA AC100V		850VA AC100V	

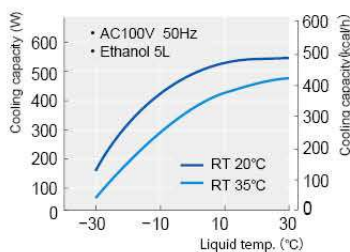
Data

Cooling Capacity

ECS-0·0SS

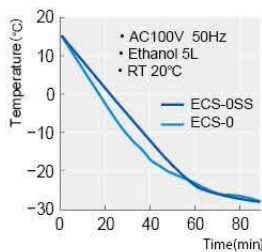


ECS-30

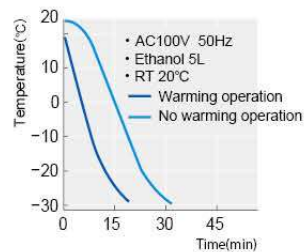


Cooling Curve

ECS-0·0SS



ECS-30



Immersion Cooler ECS-50 · 50SS · 80

For maintaining liquid temperature below room temperature: -45 and -80°C

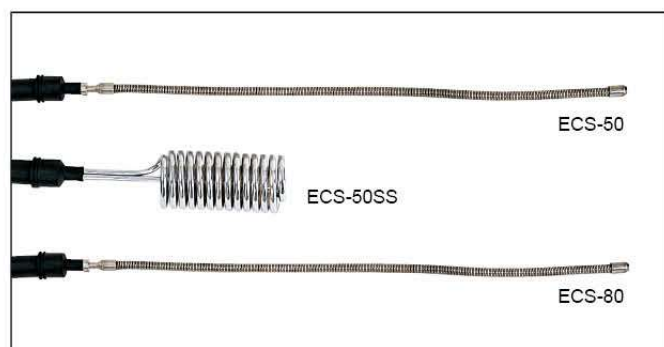


Features

- Long time, stable temperature control is possible thanks to high cooling capacity. Suitable for cold trap and synthesis, reaction process under cold temperature.
- Lowest temperature -45°C & -80°C.
- With holder for cooling part.



Product Name	Model	Cat. No.
Immersion Cooler	ECS-80	113450
Water Bath	SBC-11	114680
Temperature Controller	THD-100	114610
Stirring Pump	STR-1	114240
Cooler Clamp	CHC-2	181840
Immersion Heater	HPC-300	114740



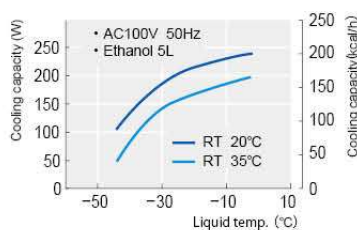
Specifications

Product Name	Immersion Cooler		
	ECS-50	ECS-50SS	ECS-80
Model	ECS-50	ECS-50SS	ECS-80
Cat. No.	113420	113440	113450
Lowest temperature	-45°C		-80°C
Cooling capacity (-30°C, 60Hz)	160W	240W	240W
Refrigerator & coolant	Air cooling, 400W, R404A		Air cooling, 400W x 2, R404A, R23
Maximum liquid temperature	0°C		
Cooling part material	SUS flexible	SUS spiral	SUS flexible
Cooling part dimensions (mm)	OD15 x 700L	Wired OD75 x 200L	OD15 x 800L
Dimensions (mm) & Weight	358W x 420D x 370H 27kg		408W x 500D x 717H 50kg
Power source	850VA AC100V		1.4kVA AC100V

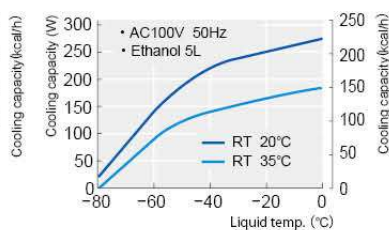
Data

■ Cooling Capacity

ECS-50

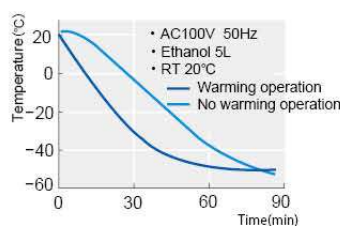


ECS-80

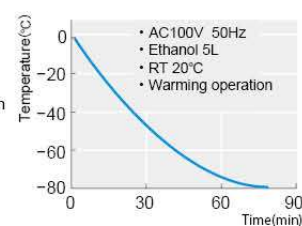


■ Cooling Curve

ECS-50



ECS-80



Option & related products of immersion cooler

■ Bath



■ Immersion Heater



■ Immersion Cooler



■ System Example



Flexible system by combination of different temperature regulator, stirring pump, automatic water supply and immersion cooler.

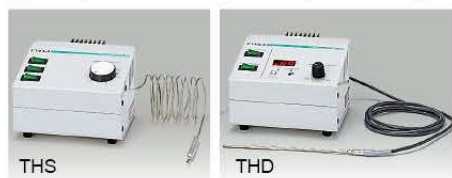
Specifications

Product name	Water Bath							
Model	SB-24	SB-15	SB-11	SB-6	SBC-24	SBC-16	SBC-11	SB-9
Cat. No.	114630	164520	114650	164510	114660	114670	114680	114700
Bath material	SUS 304				SUS 304, Coolant packing			
Bath capacity (L)	24.7	12.8	9.7	5.9	24.7	12.8	9.7	9.5
Bath dimensions (mm)	275Wx245Dx162H	275Wx245Dx150H	245Wx185Dx147H	260Wx150Dx151H	459Wx255Dx162H	275Wx245Dx150H	245Wx185Dx147H	337Wx194Dx157H

Specifications

Product name	Immersion Heater								
Model	HPC-300	HPC-500	HPC-1000	HPS-300	HPS-500	HPS-1000	HPT-300	HPT-500	HPT-1000
Cat. No.	114740	114750	114760	164770	114780	114790	114800	114810	114820
Heating part material	Copper chrome coating (Water)			SUS 316L (Water/oil)			Titanium (Water/oil)		
Heating capacity (W)	300	500	1000	300	500	1000	300	500	1000
Heater dimensions (mm)	OD100 x 8	OD100 x 8	OD138 x 20	OD100 x 8.5	OD100 x 8.5	OD139 x 20	OD100 x 10	OD100 x 10	OD140 x 30

■ Temperature Controller (THS•THD)



- Wide temperature control range from -99~50°C.
- Refrigerator ON-OFF control is possible (THS).
- By connecting immersion cooler, direct temperature control is possible.
- Up to -80°C temperature control is possible (THD).

Specifications

Product name	Temperature Controller				
Model	THS-10	THS-40	THS-60	THD-50	THD-100
Cat. No.	114570	114580	114590	114600	114610
Temp. control range	-10~50°C	-40~20°C	-60~-10°C	-50~50°C	-99~0°C
Temp. control	Heater, ref. ON-OFF			Heater	
Heater capacity	AC100V, 300W~1.4kW				
Dimensions (mm)	180W x 150D x 123H				
Power source	1.5kVA AC100V				

■ Stirring Pump STR-1



Model	STR-1
Cat. No.	114240
Motor	AC motor 5.5W
Pump Capacity	12L/min
Temp. Capacity	-80~100°C
Dimensions (mm)	90W x 135D x 223H

■ Automatic Water Supplier



Model	AFU-1
Cat. No.	114290
Control	Electrical magnetic valve
Sensor	Floating surface sensor
Temp. Capacity	0~80°C
Depth adjustment	75mm
Dimensions (mm)	145W x 67D x 290H