



PS-1100



PSL-1400



PSL-1820



PSL-2000

PSL Series

Models	PS-1100	PSL-1400	PSL-1810	PSL-2000
Product Codes	277390	182218	226348	220948
Temp. control ranges	Water: 30(RT+5°C) ~ 80°C Oil: 30(RT+10°C) ~ 180°C	-40°C ~ 0°C	-80°C ~ 0°C	-80°C ~ 0°C
Control accuracy	< ±0.5°C (@ bath centre with water)	< ±0.5°C (@ bath centre)	< ±1°C (@ bath centre)	
Stirring Speed	100 ~ 800 rpm			
Temp. control Methods	PID Control, SSR Output (Sensor: JPt100Ω)			
Sensors	Pt100Ω	Thermo couple (T)	Pt100Ω	
Temperature setting & display	Sheet key Operation, Digital display			
Safety features	Float Switch, excess current protection (60~200°C), Fuse, Thermal insulation bath cover, Self diagnostic (sensor failure/short circuit alarm, Over limit alarm, Upper limit alarm, Power failure alarm, Stirring failure, Watch-Dog)	Breaker for leakage and excess current, Refrigerator (Pressure Hi-switch, Overload relay), Float switch (on PSL-1810)		Self diagnostic (Heater cut-off, sensor failure, Upper/Lower limit alarm)
Timer function	-	-	Auto Start/Stop	-
Heater	700W (for both Water/ Oil)	250W	450W	750W
Stirring motor power	25W	15W	25W	25W
Refrigeration unit	-	Air cool, 450W, R404A	Air cool, 450W, R507A / R23	Air cool, 500W, R404A / R23
Inner bath stirring	Φ _{IN} 250 x 130H, 6L	Φ _{IN} 140 x 135H, 2.1L	Φ _{IN} 165 x 140H, 3L	Φ _{IN} 250 x 180H, 8L
Bath material	SUS 304			
Effective volume, Diameter (max)	2L, Φ165mm	300mL, Φ95mm	2L, Φ165mm	
Operation Ambient temperature	5°C ~ 35°C			
Overall dimensions (mm)	320Wx350Dx330H	350(380)Wx490Dx380H	450Wx475Dx507(532)H	450Wx550(560)Dx945(1475)H
Net weight	Approx. 10kg	Approx. 29kg	Approx. 70kg	Approx. 100kg
Power input & Rated power	7.5A, 750VA, AC100V	6.7A, 670VA, AC220V	15A, 1.5kVA, AC220V	19A, 1.9kVA, AC220V

Constant Low Temperature Bath

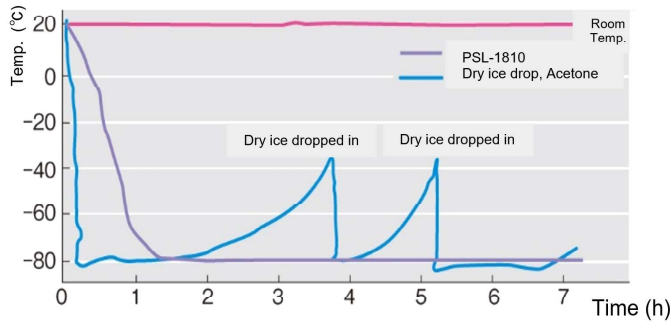
PSL Series

Installed in a Draft chamber



PSL-2000

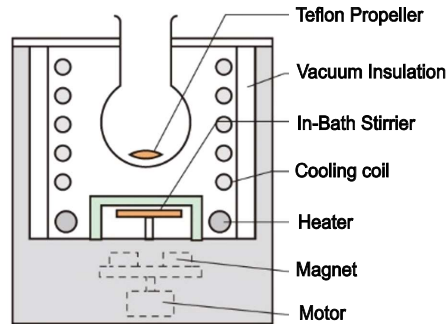
Temp. management comparison



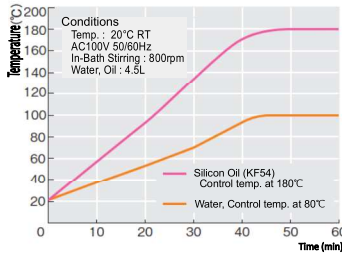
Dry ice and Acetone as cooling media, is good at rapid cooling but cannot keep the temperature maintained constantly. On the other hand, using this PSL-1810 the temperature can be kept in constant very well.



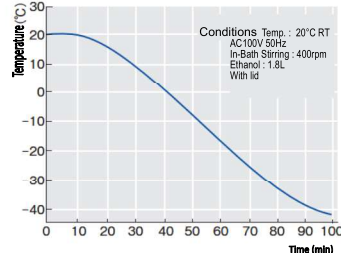
A built-in powerful stirrer which can be turned from low speed to high speed and provide stable stirring of the solution.



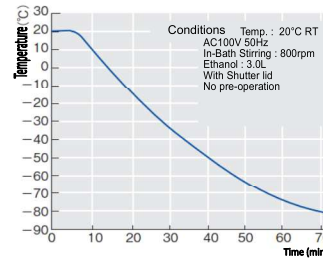
Heating curve PSL-1000



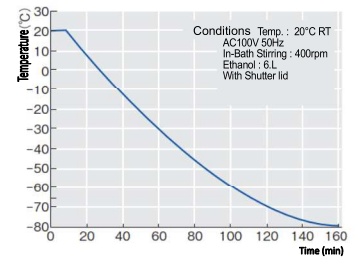
Cooling curve PSL-1400



PSL-1810



PSL-2000



Test tube holder
Synthesizing can be made in test tube. Up to 9 tubes of $\Phi 10$ to $\Phi 18$ mm are fitted in it



Reaction bottle with 2 openings
A bottle, $\Phi 60$ mm in diameter.
Opening size = $\Phi 29$ mm (main)
= $\Phi 15$ mm (side)



Insulation lid
Cooling media absorbs moisture from the surrounding atmosphere and condensed water droplets on side wall of the bath. This lid prevents it to happen to be diluted and maintain low temperature.



Teflon[®] covered powerful stirring propeller in Octagon shape

Clamp set

Holding various reaction vessels and reflux tubes.
Components (1 pc each)
Poles, Pole holders, Clamp, Muf

Pole set for stirrer

(For PSL-1810)

Clamp for small vessels

(For PSL-1400 and PSL-1810)

Suitable models		PS-1100	PSL-1400	PSL-1820	PSL-2000
Options					
ITEMS	CODES				
Test tube holders	212300	●	●	●	
	224100				●
Two way reaction vessels	203170	●	●	●	●
Insulation Lid (for continuous operation)	227220		●	●	
	164500	●	●		
Clamp Sets	224090				●
	229320			●	
Poles for stirrers	229310			●	
Clamps for small vessels	182760		●	●	

ITEMS	MODELS	Outer x Length (mm)	Q'ty	CODES
Teflon [®] Stirring prollerer (Octagon shape)	TOX-15	6.5 × 15	1	200340
	TOX-20	6.5 × 20	1	200350
	TOX-25	7.5 × 25	1	200360
	TOX-30	7.5 × 30	1	200370
	TOX-35	7.5 × 35	1	200380
Teflon [®] Sterring prollerer (Foot ball shape)	TFX-15	6 × 15	1	200390
	TFX-21	10 × 20	1	240320
	TFX-25	10 × 25	1	200410
	TFX-30	15 × 30	1	200420
	TFX-35	15 × 35	1	200430
	TFX-40	20 × 40	1	200440