

Specifications	
Power supply	220V-240V/50Hz, 5A
Working power	350W
Heating power	300W
Max.Temp.	200°C
Heating mode	Block heating
Cooling mode	Water cooling
Feed capacity	0.5L—2L
Production rate (24 hours)	HNO <sub>3</sub> 1.8 L; HCL 1.6 L; HF 1.5 L; H <sub>2</sub> O 2.0 L
Receiving vessel	500mL
Distillation rate	1.25mL/min
Dimensions	361mm(H) × 360mm(W) × 400mm(D)

Subject to change without notice. PreeKem reserves rights of final explanation. Version: 1st edition, 2018.12



**S1** Sub-boiling Acid Purifier

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**Simpler process » Easier work**

# S1 Sub-boiling Acid Purifier

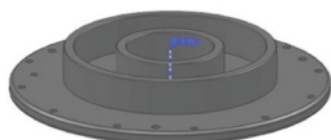
S1 sub-boiling acid purifier adopts classic sub-boiling distillation approach and works to achieve a dynamically delicate balance between automatic control of heat convection and acid vaporization.

The instrument control is designed to enable intelligent operating and handling of any task, making even an unmanned acid purification session possible in the fume hood. The device is constructed with absolutely zero quartz or metal parts, entirely eliminating the occurrence of corrosion and outside contamination from happening.

## Performance

### 3D Surrounding heating mode

3D surrounding heating mode to improve energy utilization in a more efficient and even manner.



### Direct acid injection

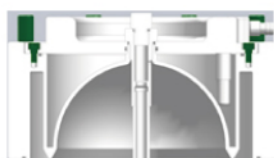
Feed acid to be injected from the bottom via specially designed delivery channel to reduce length of passage and eliminate contamination.

### Submerged temperature monitoring

Pt100 temp sensor to provide accurate control of acid heating.

### Wide-angle spherical cooling chamber

Optimized geometry of cooling chamber to provide highly efficient condensation.



### Intuitive control software

Built-in distillation method archive, real-time display of distillation progress.



Small Volume  
Large Capacity

S1 Sub-boiling Acid Purifier



## Enhanced safety features



Automatic temperature regulation

Disabling heating when a pre-set temperature threshold is reached and restarting heating when temperature falls back in normal working range



Over heating prevention

System stops automatically if feed acid is below safe working volume.



Intelligent pressure release gauge

Release excess vapor when the internal pressure alarm is triggered.



Strong carrying handle

Providing handling and operating an extra layer of protection.



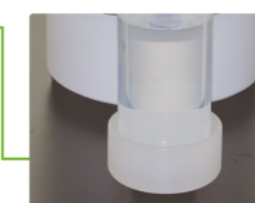
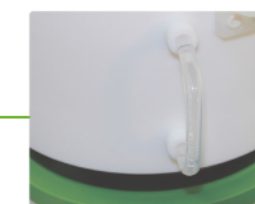
Direct view of acid level

keeping operators in the know of the distillation process.



Steady base of receiving vessel

specially designed to provide extra stability of the receiving vessel while in working mode.



## Unparalleled rate of production!

