

Autoclave for dispersing (purging) air bubble LCD  
**YYK-750S/900S**



This autoclave disperses (purges) air bubbles in cell panels after polarizer aligning process in LCD product line. The system is Bach-type autoclave. Operation conditions such as temperature, air pressure and process time are changeable. The chamber is made of for rust protection.

Model	
750	900S
Operating Temperature Range	
Max. 70deg.C	
Pressure-Resistant	
0.5Mpa	
Inner Dimension	
ø750×850mm	ø900×900mm

- No overshooting
- Can get perfect uniformity
- Three kinds of method
  - 1) At first pressure raise, after that Temperature raise
  - 2) At the same time pressure and Temperature raise
  - 3) At first Temperature raise, after that Pressure raise
- Can adjustable exhaust speed
- Can adjust ramping temperature
- Any chamber size is available upon customer's requirement (from 350 up to 1800mm I.D.)

## ■ Specifications

Model	YYK-750S	YYK-900S
<b>Drum Chamber</b>		
Inner dimension (Effective inside dimensions)	ø750×850L mm	ø900×900L mm
Material	Stainless Steel Inside surface shall be finished by polishing	
Standard	Certified as Class-2 pressure container	
Pressure	Pressure-resistant : 0.5Mpa (Optional: 0.9 Mpa) Hydraulic test pressure : 1.35Mpa	
Temperature Range	Max. Operating temperature : 70deg.C	
Temperature Uniformity	Less than ±3deg.C at 50deg.C (with Sample Load)	
Medium	Dry air (Pressure : Operating in drum +0.05MPa or Higher)	
Temperature Sensor output	5 points Temperature output terminal	
<b>Door</b>		
Type	One-door type	
Material	Stainless Steel Inside surface shall be finished by polishing	
Opening/Closing system	Easily engaged/disengaged manual clutch	
<b>Control Panel</b>		
Pressurizing system	Controlled with pressure controller, regulators and solenoid valves	
Heating system	Sheath heater with PID control	
Stirring system	Agitation method by sirocco Fan (Water-Cooling is not required for shaft sealing section) Free-maintenance	
Pressure gauge	Analog pressure gauge with upper limit contact Pressure range : 0 to 1.0MPa Accuracy : ±1%	
Temperature controller	Digital setting, digital indication (PID control)	
Pressure controller	Digital setting, digital indication (ON/OFF control)	
System control	Controlled by Programmable controller (PLC)	
Working hour timer	99hours 59min (arbitrariness set)	
Emergency stop switch	Mushroom type lock switch	
Lamps	Alarm lamps(Temperature, Pressure) Door lock, opening/closing lamps Heater ON lamp, Signal tower	
<b>Safety</b>		
Door opening/closing	Door indicator lamps (Door position is detected by 1 set of limit switch and 1 set of proximity switch)	
Pressure excessive rise	Upper limit alarm contact of pressure gauge with upper-limit contact is connected , and safety valve blows off pressurized air. (Over pressure lamp lights and buzzer sounds. Heater is turn off and pressurized air is automatically exhausted.)	
Overheat	Detected by upper limit alarm output of temperature controller. (Over pressure lamp lights and buzzer sounds. Heater is turn off and pressurized air is automatically exhausted.)	
Confirmation of automatic exhaust completion	Non-pressure lamp and end lamp on the operation panel light and signal tower lamp goes out. (Detected by pressure sensor and timer.)	
Short circuit breaker	Short circuit/ over current has occurred , the power supply is turned off.	
<b>Required Utility</b>		
Power supply	AC200/220/380V, 3-phase 50/60Hz 12 KVA	AC200/220/380V, 3-phase 50/60Hz 13 KVA
Pressure piping size	15A (Equipped with air filter, mist separator)	
Exhaust piping size	20A (Automatically exhausted and manually exhausted and equipped with silencer)	
External dimensions	1,200(W)×1,462(D)×1,771(H) mm	1,400(W)×1,515(D)×1,721(H) mm
Shelf rest step number	Custom made	
Shelf rest pitch	Custom made	
Weight	Approx. 800 kg	Approx. 900 kg

■ Control panel



■ Interior

