



High Temperature & Pressure Jet Waterproof Test Chamber (JL-9K1L) Brochure

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JL-9K1L High Temperature & Pressure Jet Waterproof Test Chamber is according to IEC60529, GB4208, DIN40050-9 and ISO20653 for protection level IPX9K testing. It is a waterproof test machine designed for vehicle spare parts, electrical and electronic industry, to simulate natural environment or human factors.

The both interior and exterior material of this chamber is high quality stainless steel, big glass observation window and elegant appearance. The turntable and spray lance motor adopt imported motor, rotation speed can be adjusted according to requirement.

1. Specification:

- Working Chamber: 1000x1000x1000mm
- Water Temperature in Tank: $80\pm 5^{\circ}$ (Adjustable, enhanced temperature and water overflow protection)
- Test time: 0-90s (Pre-settable and adjustable)
- Angle of Water Ring: 0° , 30° , 60° , 90° (The testing angle can be adjusted)
- Number of blowhole: 4
- Based on a horizontal line, distribute nozzle hole at anticlockwise $\pm 0^{\circ} \pm 30^{\circ} \pm 60^{\circ} \pm 90^{\circ}$ with valve on nozzle, can set programmable to jet in turn.
- Spraying distance: 100mm~200mm and can be adjustable nozzle distance by manual
- Spraying pressure: 8000~10000kPa (81.5~101.9kg/cm²)
- Electrical high temperature flow meter: Flow is 14~16 L/min
- Rotation speed of testing table: 5-17r/min (Motor drives turbine slow rotating, control speed and adjust to appropriate speed by frequency converter)
- Testing table: Load bearing 15kg/ $\Phi 400\sim 500$ mm

- The Chamber door: Large screen visual tempered glass door, observing test condition any time and equipped with a wiper

2. Main configuration

External material	Stainless steel hairline plate
Internal material	Stainless steel hairline plate
Oscillating tube turntable	Stainless steel plate
Spray lance	Stainless steel tube
AC contactor	Schneider or Siemens
Solid-state relay	Wuxi Gold
Intermediate relay	Omron
Water recycling	Stainless steel water tank and water pump
Flow precision adjustment	Flow adjustment valve
Pressure control	Water pressure gauge
Electron speed regulator	Adjust rotary speed of sample holder and oscillating tube

3. Control mode

- Hydraulic pressure gauge pressure control
- Flow control valve to ensure water flow accurately
- Sample holder, nozzle, speed using the electronic governor

4. Safety Protection

- Power supply overload, short-circuit protection
- Grounding protection
- Lack of water protection
- Alarm ring reminder

5. External operation condition

- High pressure spray chamber to open wide type, to the ground and waterproof processing, around with drainage pipeline
- Customer provide a sample, we are responsible for the custom a set of jigs



Fig 1: IPX9K nozzle angle diagram



Fig 2: Spraying diagram