

## Specification of Stability Room

<b>Series</b>		<b>QL Model</b>
Room volume (effective volume)	liter	32,559 (12,600)
<b>Interior dimension</b>		
Width	mm	3050
Height	mm	2500
Depth	mm	4270
<b>Exterior dimension</b>		
Width	mm	3200
Height	mm	3200
Depth (Incl. door opened & AMS)	mm	5320 (6770)
Electrical supply ( $\pm 10\%$ ) 50/60 Hz	V	380
Unit nominal power	W	10,000
Door	number	1
Cooling system protection from power shock		Delay on
Refrigerant for cooling system		R-410a (Non - CFC)
Humidification system		Steam injection system with conductance value of water feeding is 5 - 30 $\mu$ S (recommended)
Material		Exterior and interior : polyurethane/PU (75mm thickness) zinc-alum powder coated. AMS & Air circulating system : inner-outer stainless steel SUS 304 with Thermobreak® insulation 25mm thickness Flooring : concrete coated by epoxy Rack : stainless steel SUS 304
Probe/sensor accuracy		$\pm 0.8\%$ RH, $\pm 0.1$ K at 10...30 °C
Long-term stability, humidity sensor		$<1\%$ RH, 0.1°C / year
Validation of analog and digital transmission (loop validation)		Enable
Temperature range without humidity (at room temp. 30 °C)	°C	+20 – 45
Temperature fluctuation when cooling is operated	$\leq \pm$ °C	0.3
Temperature variation with humidity	$\leq \pm$ °C	1.0
Humidity range	%RH	50 – 85
Humidity fluctuation with temperature	$\leq \pm$ %RH	2.0
Humidity variation with temperature	$\leq \pm$ %RH	3.0
Controller		Intelligent Control System
Off-line logging power back-up		External battery
Sensor type		Pt 100 (temperature), Rotronic HYGROMER® IN-1 (humidity)
Sensor and display resolution for temp. and humidity		0.01
Sensor calibration and adjustment :		
- 1-point or multi-point humidity calibration or adjustment		Yes
- 1-point or 2-point temperature calibration or adjustment		Yes
Setting, Logging and Monitoring		By external PC (exclude) and individual LCD display on chamber
Software		Fully comply to FDA CFR 21 Part 11 and GAMP5 with features : data-logging, data storage, calculation of various humidity parameters, graphic functions
Port data access		RJ45 (Ethernet)
Network		Networkable via RS485 up to 64 units
Alarm		Central Alarm System
Logging method		On-line and Off-line logging
Memory capacity		128 MB (saves 47,000 data records per MB card storage capacity)
<b>Safety/Protection</b>		
Overshoot temperature safety device		Cut off the main power and completed with output
Low level water protection		Cut off the heating element of humidification system

*Custom specifications and configurations are available, please contact us.*