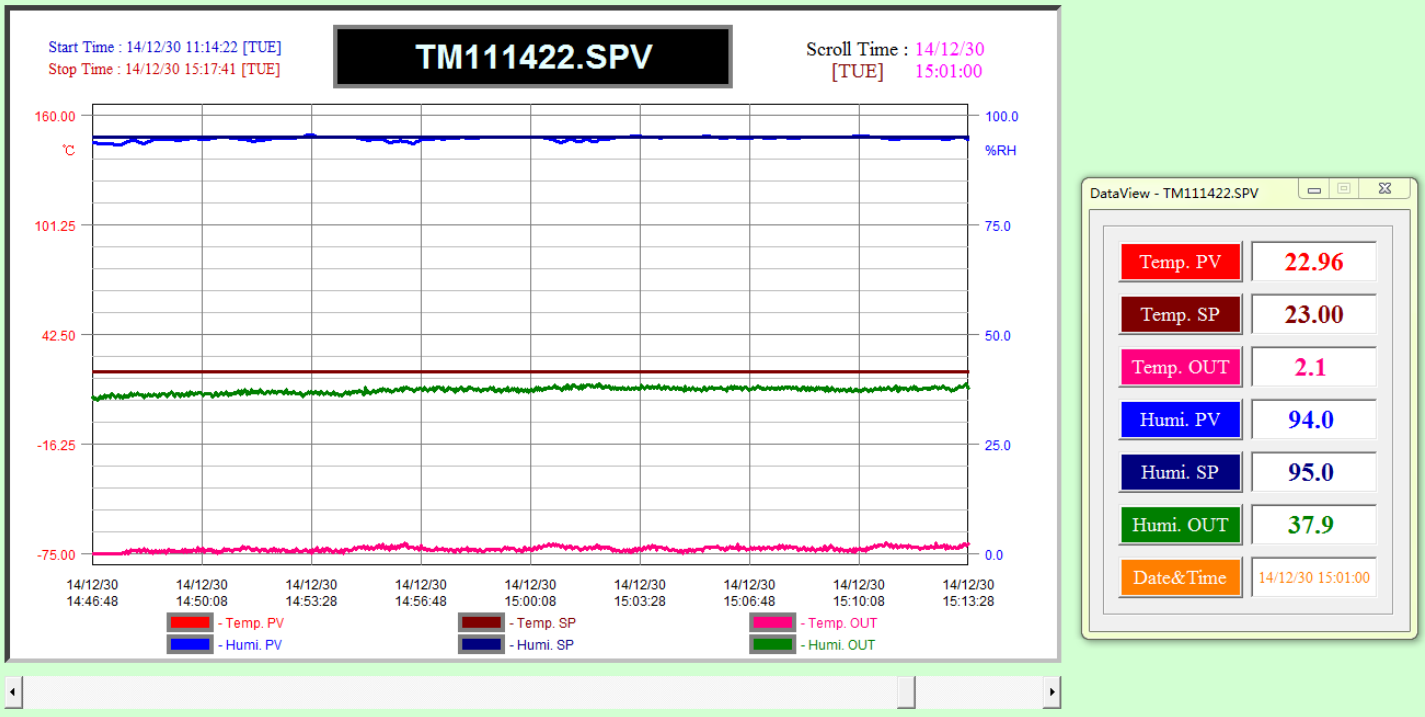
Chapter 1 : The Technical Parameters for Temperature Humidity Chambers : WEW-1000L-TH

01.	Equipment Performance: Products performed as air-cooled and water-cooled. The temperature is room °C when machine is no-load.
02.	Product Name: Programmable constant temperature and humidity test chamber
03.	Machine Model: WEW-1000L-TH
04.	The Dimensions 1000 x 1000 x1000mm (W x D x H)
05.	Volume 1000L
06.	External Dimensions of Approximately 1480 x 1510 x 1840 mm (W x D x H)
07.	Temperature Range -70 ℃ ~ +180 ℃
08.	Humidity Range from 20% to 98%
09.	Heating Rate from -40 ℃ to 10 ℃ / have been completed within 18 minutes; no-Load
10.	Heating Rate from 10 ℃ to 100 ℃ / have been completed within 23 minutes; no-Load
11.	Cooling Rate from 100 ℃ to -25 ℃ / have been completed within about 40 minutes; no-Load
12.	Cooling Rate from - 25 ℃ to -70 ℃ / have been completed within about 30 minutes; no-Load
13.	Temperature Distribution Uniformity of ± 2 ℃
14.	Temperature Control Volatility ± 0.1 ℃
15.	Temperature Deviation ± 1 ℃
16.	Temperature Stabilization Time ≤ 10min;
17.	Humidity Distribution Uniformity ± 2%
18.	Humidity Control Volatility ± 2%
19.	Humidity Deviation ± 3%
20.	Humidity Stabilization Time ≤ 10min
21.	Total Weight: 820KG for WEW-1000L-TH

Chapter 2: Mechanical Structure Design for Temperature Humidity Chamber WEW-1000L-TH

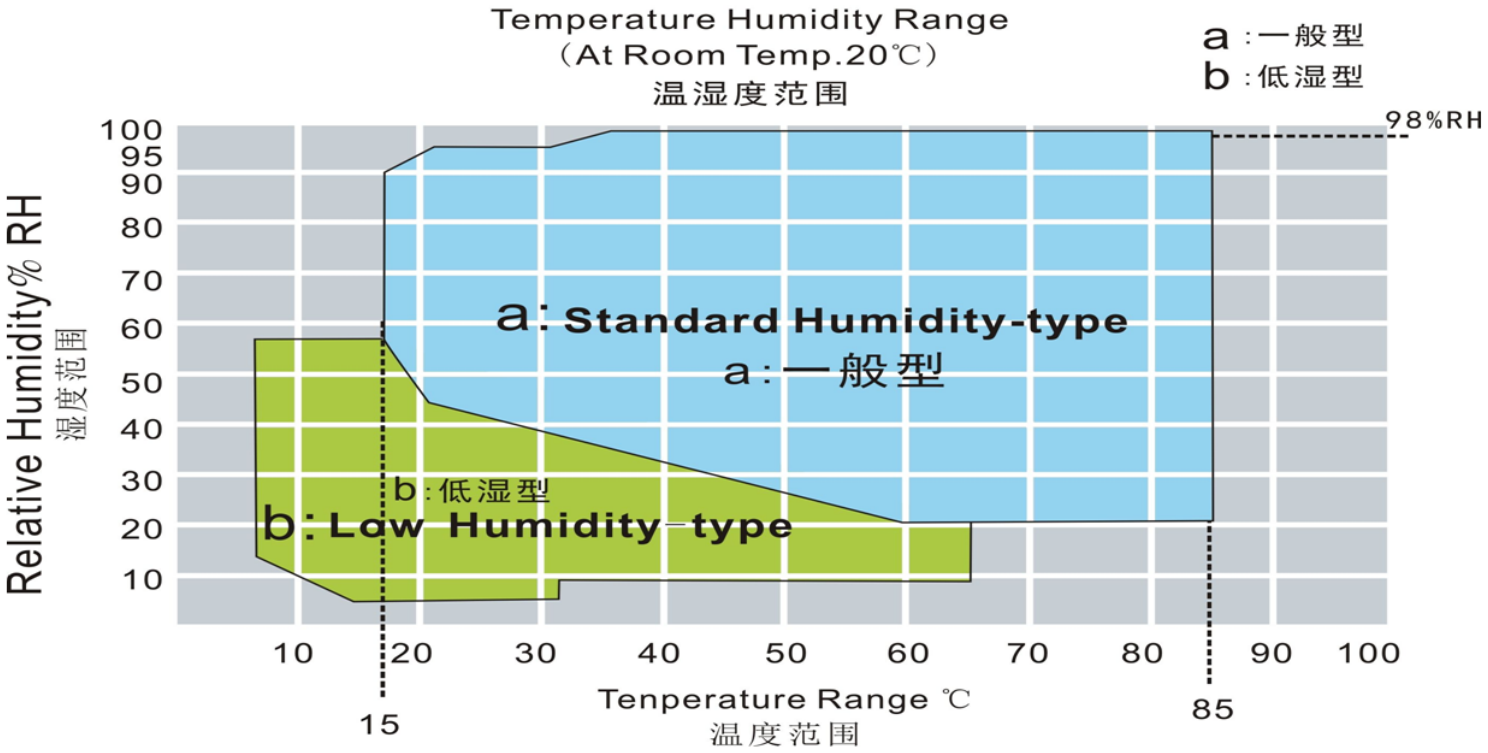
01.	Inner box material: Heatproof and cold resistance stainless steel plate with circumferential welding (SUS # 304)
02.	Outside box material: Using galvanized sheet with advanced powder paint or Heatproof and cold resistant steel plate (SUS # 304)
03.	Cold/heat storage material: High efficiency aluminum to store large of heat and cold so that achieve cold and hot exchange. The main structure design: Composed of four parts: Metal plate, Circuit , Frozen water flow .
04.	Observation window: Install multi-layer hollow rectangular insulated glass windows (310 × 420mm)and there is energy-efficient LED lighting on the window.
05.	Sample bearing course: Sample on one layer is not more than 30 kg
06.	Way to move the sample rack: Sample holder is moved up and down with reciprocating linear
07.	Insulation: Thermal insulation layer composed of flame fire PU + glass wool insulation (insulation thickness 10.0 cm)
08.	Box tray: adjustable shelves and two stainless steel strips (5.0 cm interval between two layout)
09.	Machine Positioning: There are installation of four high-loading corner bearing pulleys and PU wheels at the bottom of the machine to facilitate moving the machine.
10.	Cabinet Structure: Taiwan imported plane embedded rotatable knob; (1)Hinges: Original Japanese imported, to prevent shaking from the door, made of SUS 304; (2)Energy-saving LED 18W inside, to make four corners of the test items observed clearly; (3)High-low temperature resistible high tensile silicone foam ;



Chapter 3: Temperature & Humidity Chamber Electric Circulatory System for WEW-1000L-TH

01.	Electric circulatory system: Designed as thermal ,moisture-proof and stainless steel loop extension axis motor
02.	Circulating fan: High / low temperature resistance aluminum Sirocco fan
03.	Electric storage control: Balanced thermostat with P.I.D and control with S.S.R
04.	Microcomputer control structure: Microcomputer control, pre-cooling preheating temperature conversion control, computer calculations can reach high precision and high output power saving .
05.	Automatic control: 1)U-shaped fin high-speed heating electric heater; 2)Refrigeration system is completely independent so does not affect the

	control lines; 3)Calculated with the heat content of the heating rate of test substance.
06.	Humidity system: 1) using micro-electronic and humidification systems.2) Humidification barrel made of stainless steel along with water level observation window. 3) Attached overheating and overflow device. 4) Humidification and dehumidification system is completely independent. 5) Water level control with mechanical float raft, to eliminate electronic malfunction.6) Water supply system with automatic replenishment attached filter so that the buyers don't need to add water manually.7) using expendable recycled water system.
07.	Dehumidification system: 1) Independent compression and refrigeration system . 2) Dew point temperature of the evaporator tube containers (ADP) layer contact with dehumidification.

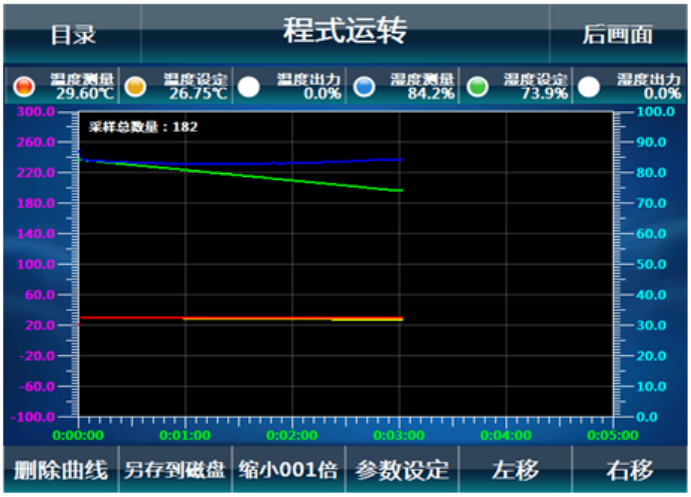


Chapter 4: Refrigeration System: Refrigeration system using binary refrigeration system which with good efficiency and energy saving !!!

01.	Freezing device: European and American imported high-efficiency cryogenic refrigeration compressor (air cooling mode).
02.	Cold switching device: Adopt ultra-efficient refrigerant cold exchange SWEP plate, has higher efficiency than traditional inner spiral.
03.	Heating load regulation: Computer automatically adjusts the refrigerant flow, take products heat away ,the technology is same as German and Japanese technical synchronization. [Control, which has better stability , reproducibility and energy saving than traditional design]
04.	Condenser: Using coil or barrel type (larger systems use) adopt water-cooled or air-cooled mode
05.	Super performance refrigeration control refrigerant: Refrigerant pipes are welded with pressurized nitrogen and passed the leak test.
06.	Evaporator: High efficiency evaporator assembly adopted slope (AC & R double spoiler-type aluminum fins).
07.	Standard modular design: High component compatibility interoperability quality stability
08.	Expansion properties: Control system can be set aside isothermal liquid nitrogen valve LN2V & refrigerant control valve FV control interface
09.	Expansion capabilities: With automatic defrost evaporator icing circuit caused by long time work in low temperature .
10.	Special Function: Siroco Fan forced convection air flow, improve the efficiency of uniform temperature
11.	Special Function: The test area are using PID + SSR microcomputer temperature control system to control the accuracy of automatic calculation
12.	Refrigerant: DuPont green refrigerant R404a and R23a
13.	Original auxiliary: Expansion valve (USA SPORLAN), the solenoid valve (Italy CASTEL); screening program (U.S. SPORLAN); pressure controller (BAR RANCO); oil separator (Europe and America ALCO) and other refrigeration parts which are imported

Chapter 5. Control System For WEWON OYO. Temperature And Humidity Chambers Support Ethernet Port with Computer /The Korea Controller 880 &1500 Options!! ! Powerful Guns !!!

ENGLISH/ CHINESE/ RUSSIAN LANGUAGE SUPPORT OEM/ODM CUSTOM



02.	Controller Description	Japan OYO 9256P Controller/ Korea TEMI 1500 Controller/
03.	Features Controller 01:	Detachable display and control unit
04.	Features Controller 02:	Heat and Cool Control Support
05	Features Controller 03:	Humid and De Humid Control Support
06	Features Controller 04:	The touch interface like the picture clear quality
07	Features Controller 05:	18bit A / D converter through a high precision control
08	Features Controller 06:	120 patterns with 1200 segment operating various programs
09	Features Controller 07:	DI 16 points , DO 12 + 20(option) points built in
10	Features Controller 08:	Displays humidity automatic, manual selection
11	Features Controller 09:	In High temperature and humidity, low temperature and humidity, the differentiation of humidity control
12	Features Controller 10:	Digital recorder function
13	Features Controller 11:	Users screen configuration support
14	Features Controller 12:	SD memory card support
15	Features Controller 13:	Provided free of charge to PC Software
16	Features Controller 14:	VESA Mounting Support
17.	Features Controller 15:	Korean, English, Chinese, Japanese, Russian support