

Constant Temperature Chamber															
Product model number	W	/HW-200L													
	Model			WHW	-	200 L	-	4T	S	-	5V10mA 160CH	-	220V	-	В
		Characteristic		1		2		3	4		<u> </u>		6		7
		Symbol meaning	1				Cons			era	ture test box seri	es			
			2	Nominal volume: 200L (other digital analogy)											
			3	4T: 4 temperature zones (not indicated by the single temperature zone)											
				Refrigeration mode: S represents the semiconductor refrigeration											
Model naming method			4	(temperature range: 15 $^{\circ}\mathrm{C}$ -60 $^{\circ}\mathrm{C}$)											
Woder Hamming Method				Compressor refrigeration does not indicate (temperature range: 0 $^\circ\!\mathrm{C}$											
					-60℃)										
			5	5V10m	5V10mA 160CH: Power supply equipment specifications and number							er of			
				channels, but not omitted by default											
			6	220V: Equipment voltage 220V (default 220V omitted not indicated,								d,			
				other voltages by analogy)											
			7	B: Product iteration update version number, then A, B, C, Default does not indicate							lt A				
		Camatant											ما اما ما اما	1	
	Constant temperature test of new energy soft package polymer cell and buckle cell														
	Electronic, electrical, instrument, materials, semiconductor and other production anterprises to non flammable, non explosive items for constant temperature test.														
2. Product application	 enterprises to non-flammable, non-explosive items for constant temperature test Environmental protection, agricultural and livestock, aquatic scientific research 														
	institutions and production of water analysis, bacteria, mold, microbial culture,														
	preservation, plant cultivation, breeding test of constant temperature test														
	This test equipment is prohibited by:														
	Test or storage of samples of inflammable, explosive and volatile substances														
3. Limit the sample	Test or storage of test samples of corrosive substances														
	•	Test or st	torag	e of sam	ple	s of str	ong	electr	oma	gne	tic emission sour	ces			
	•	Test and	stora	age of te	st s	amples	of ra	adioa	ctive	suk	ostances				
	Test and storage of test samples of highly toxic substances														
		Testing or storage of tests or specimens that may produce such substances or objects													
4. Volume and size															
4.1 Nominal content	200L														
4.2 Inner box size	W500 mm × D 00 mm × H800 mm														

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4.3 Overall dimensions	W600 mm × D720 mm × H1500 mm						
4.4 Net weight of the	About 160kg						
equipment	3						
5. Performance							
5.1 Test the	Ambient temperature is + 25 $^{\circ}$ C, relative humidity is 85%, with no sample in the test box (no						
environmental	load)						
conditions							
5.2 Temperature range	0~60℃						
5.3 Temperature	\leq 1 $^{\circ}$ C (equivalent to \pm 0.5 $^{\circ}$ C, with no load and stable temperature)						
fluctuation degree	(
5.4 Temperature	\pm 2.0 $^{\circ}$ C (when no load and temperature is stable)						
deviation	(eeee						
5.5 Heat-up time	25 $^{\circ}$ C $^{\sim}$ 60 $^{\circ}$ C $^{\circ}$ 60 $^{\circ}$ C $^{\circ}$ 60 min (no load, average nonlinearity)						
5.6 Cooling down time	25°C~0°C ≤50 min (no load, average nonlinear)						
6. Structural characteristics							
	Outer wall material: high quality cold-rolled steel plate, surface spray plastic and paint						
6.1 Thermal insulation	treatment						
and envelope structure	Inner wall material: stainless steel plate SUS304						
	Box insulation material: polyurethane foam (insulation thickness of 50mm)						
6.2 Air conditioning channel	Axial flow fan, heater, and evaporator						
	Box door: air anti-fog toughened glass + frame						
C 2 Chandard	Lead hole (with soft glue plug): φ 80mm / 4						
6.3 Standard configuration of the test box	Caster: 4 pcs (with brakes)						
	Cell tray: electric insulation, cell tray 4 layers, load-bearing (all cloth): 10kg / layer						
							Lighting: LED lighting lamp
	6.4 The Control Panel	Touch-type control button					
	Stainless steel, a heating pipe						
6.5 Heater	Heater control mode: no contact and other periodic pulse widening, SSR (solid state relay)						
7. Refrigeration system							

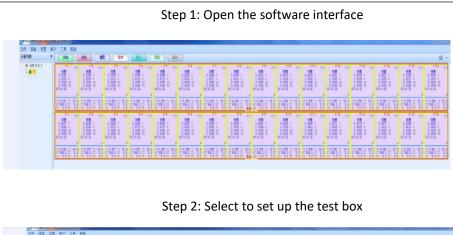
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7.1 Refrigeration compressor	Fully enclosed piston compressor						
7.2 Cooling mode	Air-cooled						
7.3 The throttle device	Capillary						
7.4he refrigerant	R134a						
7.5 Welding process	Nitrogen-charge protective welding						
8. Electrical control syste	m						
8.1 controller	LED digital display + touch key type controller						
8.2 Setting mode	Touch key type						
8.3 Control mode	Forced circulating ventilation and balancing temperature regulation method. The control system controls the output of the heater through the PID automatic operation output result according to the set temperature value, so as to achieve a dynamic balance						
8.4 Communication mode	The Ethernet standard interface						
8.5 Temperature control module	Independent research and development (high and low temperature shock, vibration and EMC)						
9. Interconnection with the battery cell testing equipment							
9.1 Hardware connection of the equipment	BTS upper computer, cell testing equipment and test box pass Channel line, and data communication line to achieve hardware interconnection						
9.2 Schematic diagram of the network	ME3主产製造系法 数数度集集器 TCP/IP						

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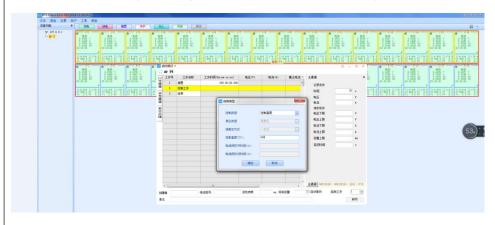
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9.3 Upper computer programming control interface (see equipment random data for details)



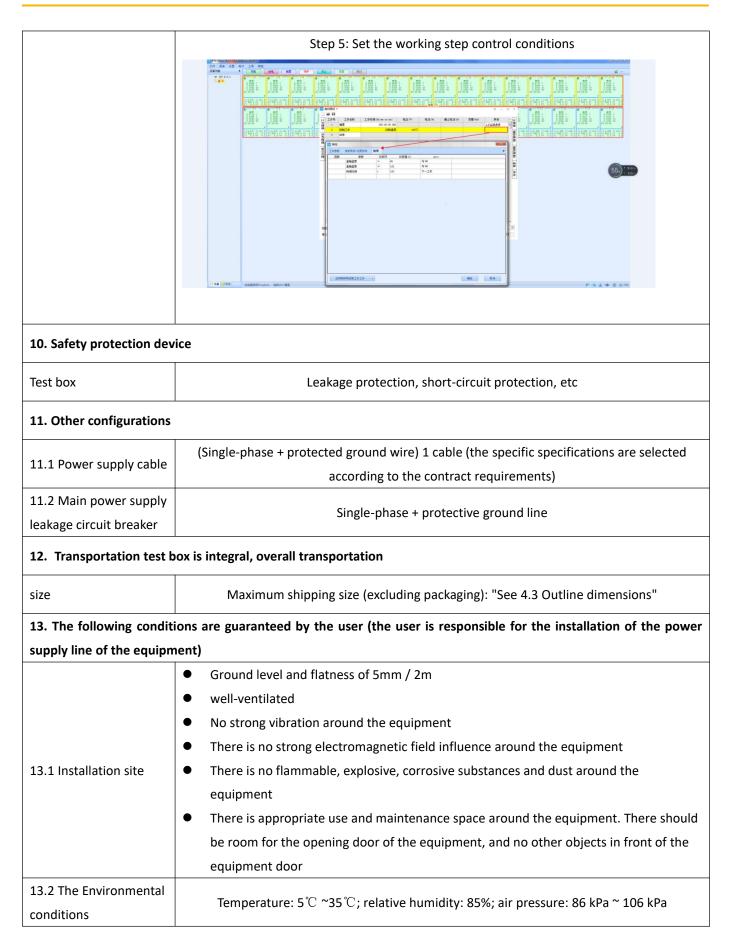
Step 3: Find the test box to be set up

Step 4: Set up the test box to control the temperature



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	T								
13.3 Power supply	• AC (220 ± 22) V (50 ± 0.5) Hz single-phase	se + protected ground wire							
conditions	$ullet$ The protective ground ground resistance is less than 4 Ω								
Course	The user is required to configure an air or power switch for the equipment at the								
Source	installation site, and the switch must be independent for the equipment								
Dower consoit.	● 2k W								
Power capacity	● 10A								
maximum current									
	Opening the door of the test box will caus	se the temperature fluctuation in the box; if							
13.4 Other	opening the door several times or opening the door for a long time or the test sample								
	emits wet steam, the heat exchanger of the refrigeration system may cause frost or freeze								
	and fail to work normally								
14. Cell specifications and	d placement method								
14.1 Cell specifications	Buckle-type cell or soft-pack cell								
14.2 Cell placement									
mode	Four layers are placed (up to 40 buckle cells can be placed in each layer)								
	Air.								
14.3 Cell tray form and									
cell fixing mode (cell									
tray can be customized									
as needed)									
Call tray using alactric									
Cell tray using electric, insulated electric wood	•								
quality	purpose-made	General tray							
quanty	pallet								
15. Simulation diagram d	luring stable temperature operation in the tes	st box (schematic diagram only)							
	5.20e+01								
	5.07e+01 4.93e+01 4.80e+01								
No-load run	4.66e+01 4.53e+01 4.39e+01								
	4,26+01 4,12e+01								
	3.99e+01 3.85e+01 3.72e+01								
	3.58e+01 3.45e+01								
	3.31e+01 3.18e+01 3.04e+01								
	2.91e+01 2.77e+01 2.64e+01								
	2.50e+01 2.50e+01	0							

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