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Servohydraulic dynamic testing machine | Accessories

Accessories for servohydraulic dynamic testing machine

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1. Hydraulic Wedge Grips



30kN, 100kN, 250kN, 500kN, 1000kN, 2500kN

① WXYC304A

Capacity 1: 30kN

- Vee jaws: $\Phi 5 \sim \Phi 10 \text{mm}$; $\Phi 10 \sim \Phi 15 \text{mm}$
- Flat jaws: 0~8mm
- Flat jaw size (W×H): 30×38mm
- External diameter: $\Phi 126 \text{mm}$
- Height (excluding piston rod): 163mm
- Single grip weight: 9kg

② WXYC105E

Capacity 2: 100kN

- VEE JAWS: $\Phi 5 \sim \Phi 10 \text{mm}$; $\Phi 10 \sim \Phi 15 \text{mm}$; $\Phi 15 \sim \Phi 20 \text{mm}$
- Flat jaws: 0~8mm; 8~15mm
- Flat jaw size (W×H): 50×65mm
- External diameter: $\Phi 210 \text{mm}$
- Height (excluding piston rod): 175mm
- Single grip weight: 39kg

③ WXYC255B

Capacity 3: 250kN

- VEE JAWS: $\Phi 10 \sim \Phi 20 \text{mm}$; $\Phi 20 \sim \Phi 30 \text{mm}$
- Flat jaws: 0~10mm
- Flat jaw size (W×H): 50×90mm
- External diameter: $\Phi 270 \text{mm}$
- Height (excluding piston rod): 232mm

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- Single grip weight: 85kg

④ WXYC605C

Capacity 4: 600kN

- VEE JAWS: $\Phi 10 \sim \Phi 20 \text{mm}$; $\Phi 20 \sim \Phi 30 \text{mm}$; $\Phi 30 \sim \Phi 40 \text{mm}$
- Flat jaws: 0~10mm
- Flat jaw size (W×H): 80×90mm
- External diameter: $\Phi 340 \text{mm}$
- Height (excluding piston rod): 287mm
- Single grip weight: 160kg

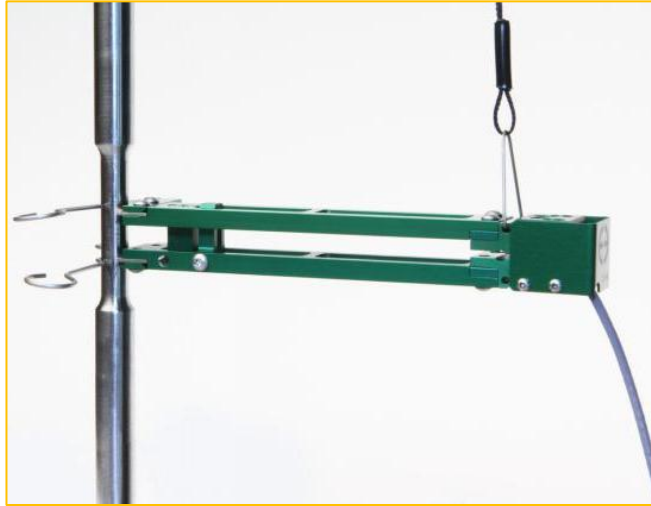
⑤ Capacity 5: 1000kN

- VEE JAWS: $\Phi 20 \sim \Phi 30 \text{mm}$; $\Phi 30 \sim \Phi 40 \text{mm}$; $\Phi 40 \sim \Phi 50 \text{mm}$
- Flat jaws: 0~15mm
- Flat jaw size (W×H): 130×130mm
- External diameter: $\Phi 444 \text{mm}$
- Height (excluding piston rod): 414mm
- Single grip weight: 410kg

⑥ Capacity 6: 2500kN

- VEE JAWS: $\Phi 30 \sim \Phi 40 \text{mm}$; $\Phi 40 \sim \Phi 50 \text{mm}$; $\Phi 50 \sim \Phi 60 \text{mm}$
- Flat jaws: 0~20mm
- Flat jaw size (W×H): 160×150mm
- External diameter: $\Phi 580 \text{mm}$
- Height (excluding piston rod): 514mm
- Single grip weight: 900kg

2. 3442 Axial Extensometer



2.1 Model/Parameter

Brand: Epsilon

① Model 1: 3442-0125M-025M-ST

- Gauge length: 12.5mm
- Measuring range: + 2.5/-1mm
- Temperature range: -40°C~+100°C

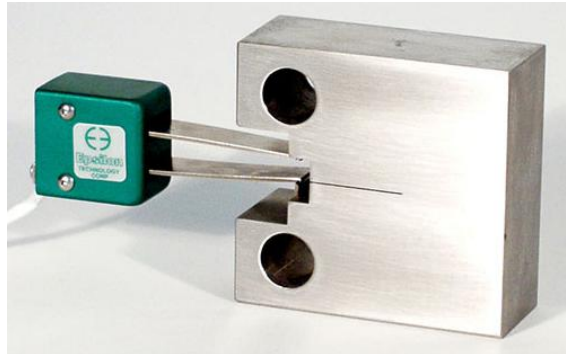
② Model 2: 3442-025M-025M-ST

- Gauge length: 25mm;
- Measuring range: + 2.5/-1mm
- Temperature range: -40°C~+100°C

2.2 Features

- Light, compact and strong, widely applicable to a variety of miniature samples
- Do NOT need to remove the extensometer when the sample is broken
- The extensometers can measure in both tension and compression and can be used for cyclic testing
- Mechanical overtravel stops in both directions
- In compliance with ASTM Class B-1 and ISO9513 Class 0.5 accuracy requirements
- Easy to replace hard tool steel blade, a set of spare blade is provided
- Rugged, dual flexure design for strength and improved performance. Much stronger than single flexure designs, this also allows cyclic testing at higher frequencies

3. 3541 Fracture Mechanics Clip-On Gages



3.1 Model/Parameters

Brand: Epsilon

① **Model 1:** 3541-005M-040M-ST

- Gauge length: 5mm;
- Measuring range: + 4/-1mm;
- Temperature range: -40°C~+100°C。

3.2 Features

- Fully enclosed gages are protected from accidental damage.
- Do NOT need to remove the extensometer when the sample is broken
- In compliance with ASTM Class B-1 and ISO9513 Class 0.5 accuracy requirements
- Sharp grooves per ASTM E1820, E813, and E399 for improved stability when mounted.
- For KIC/JIC testing, maximum accuracy is achieved with the smallest measuring range and the largest gauge length that will perform the test.
- Apt to high frequency test (within 50Hz)

4. 7650A High Temperature Capacitive Extensometer



4.1 Model/Parameter

Brand: Epsilon

① Model 1: 7650A-0125M-020M-ST

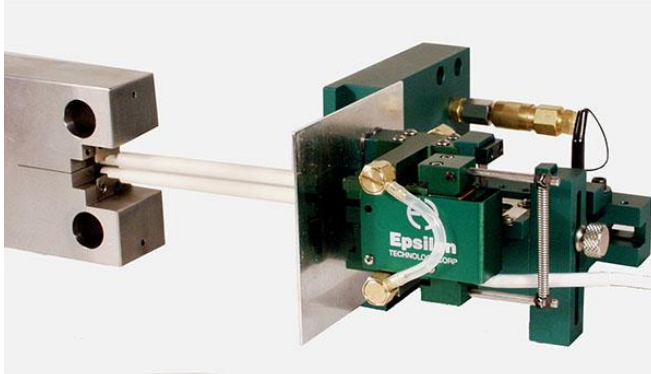
- Gauge length: 12.5mm
- Measuring range: + 2/-1mm
- Temperature: ambient ~+1200°C

4.2 Features

- Measure axial strain at high temperature and normal temperature
- Do NOT need to remove the extensometer when the sample is broken
- Allow for hot mounting after thermal equilibrium has been reached
- Used for tensile, compression, cycle test, the maximum frequency can reach 10Hz
- In compliance with ASTM Class B-1 and ISO9513 Class 0.5 accuracy requirements
- Incorporate capacitive sensors for low operating force and include electronics with programmable filtering and multi-point linearization for improved performance and accuracy
- Mount rigidly on the load frame and incorporate slide mounting to bring the extensometer into contact with the specimen
- Built-in calibration reference and automatic zero clearing function
- Can be calibrated at room temperature, used at high temperature
- Water cooling kits and signal cables can be quickly disconnected

5. High Temperature Furnace COD Gages

5.1 Model/Parameter



Brand: Epsilon

① **Model 1:** 3548COD-005M-040M-ST

- Gauge length: 5mm
- Measuring range: + 4mm
- Temperature range: ambient ~+1200°C

5.2 Features

- Fracture mechanics test measured at high temperature and normal temperature
- Do NOT need to remove the extensometer when the sample is broken
- In compliance with ASTM Class B-1 and ISO9513 Class 0.5 accuracy requirements
- For KIC/JIC testing, maximum accuracy is achieved with the smallest measuring range and the largest gauge length that will perform the test.
- Equipped with high purity alumina ceramic rods
- Rugged, dual flexure design for strength and improved performance

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6. CT Fixture

- ① **Model 1:** B=6.35;W=25;d=6
- ② **Model 2:** B=12.7;W=50.8;d=12.2
- ③ **Model 3:** B=25.4;W=50.8;d=12.2

Note: CT fixture excludes COD gages.



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7. SEB Fixture

➤ ① **Model 1:**

Capacity: 100kN;

Roller length: 46mm;

Span: L=40~300mm;

Roller's diameter D=10mm or 15mm or 20mm

➤ ② **Model 2:**

Capacity: 250kN;

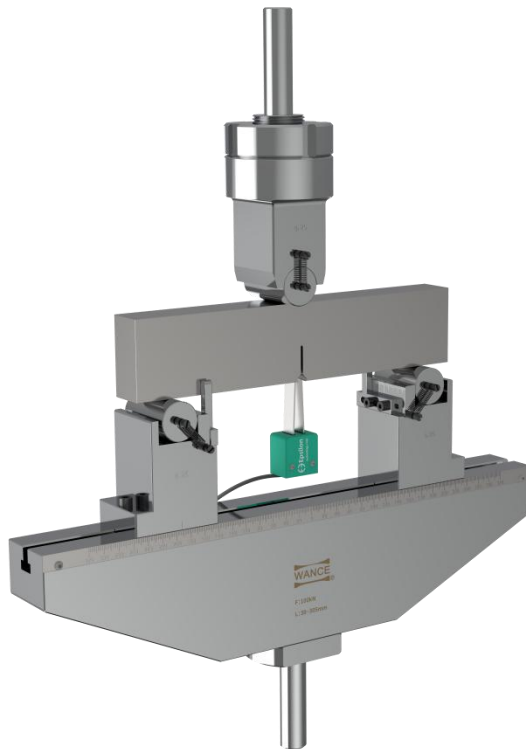
Roller length: 75mm;

Span: L=80~600mm;

Roller's diameter D=20mm or 30mm or 40mm

Note: Roller's diameter (D) selected according to user needs.

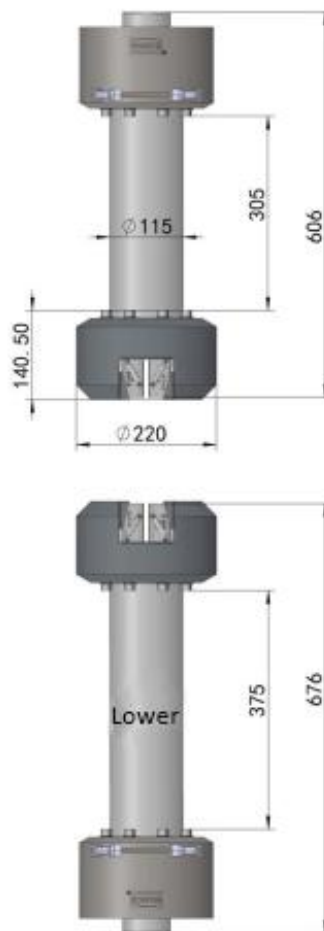
CT fixture excludes COD gages.



8. Extended Hydraulic Wedge Tensile Grips**① Model 1:**

- Capacity: 100kN
- Flat jaws: 0~8mm; 9~15mm
- Flat jaw size (W×H): 50×65mm
- Vee jaws: $\Phi 5 \sim \Phi 10$ mm; $\Phi 10 \sim \Phi 15$ mm; $\Phi 15 \sim \Phi 20$ mm
- Temperature range: -70~+350℃

Note: the clamping range selected according to user needs.

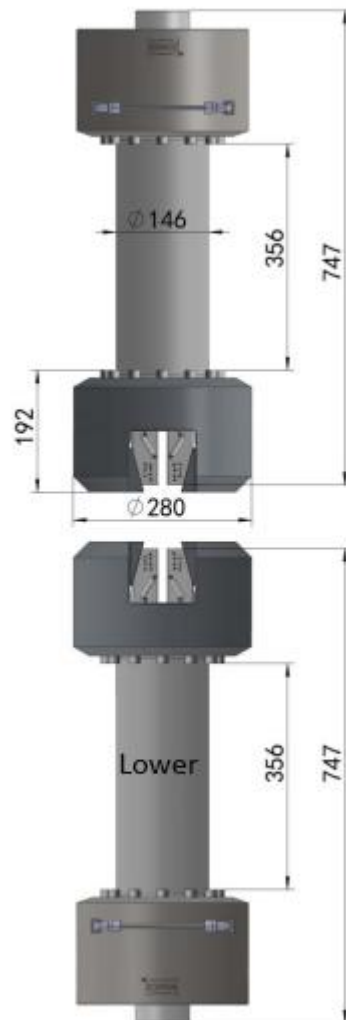


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② Model 2:

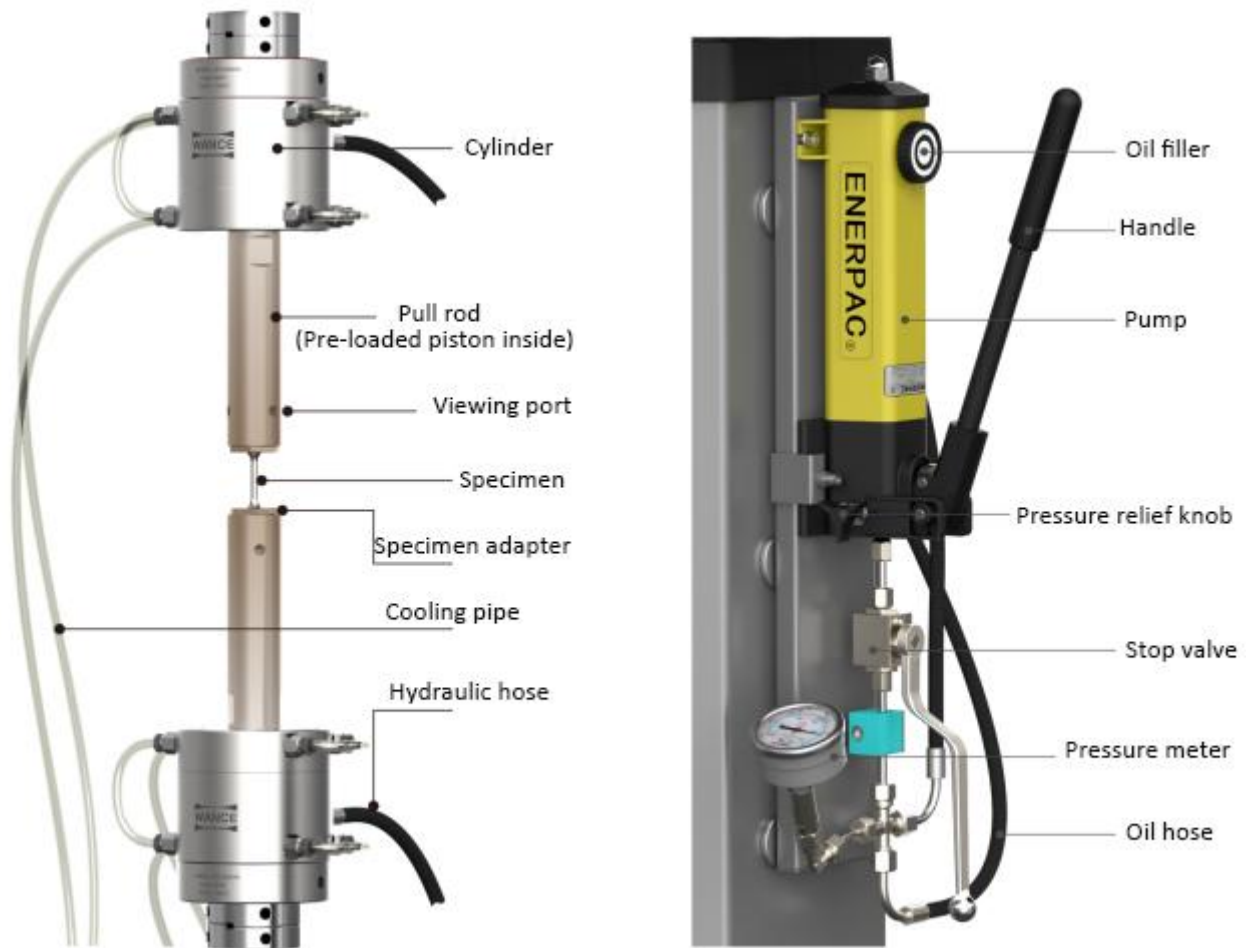
- **Capacity: 250kN**
- Flat jaws: 0~10mm; 10~20mm
- Flat jaw size (W×H): 50×90mm
- Vee jaws: $\Phi 6 \sim \Phi 10\text{mm}$; $\Phi 10 \sim \Phi 20\text{mm}$; $\Phi 20 \sim \Phi 30\text{mm}$
- Temperature range: $-70 \sim +350^{\circ}\text{C}$

Note: the clamping range selected according to user needs.



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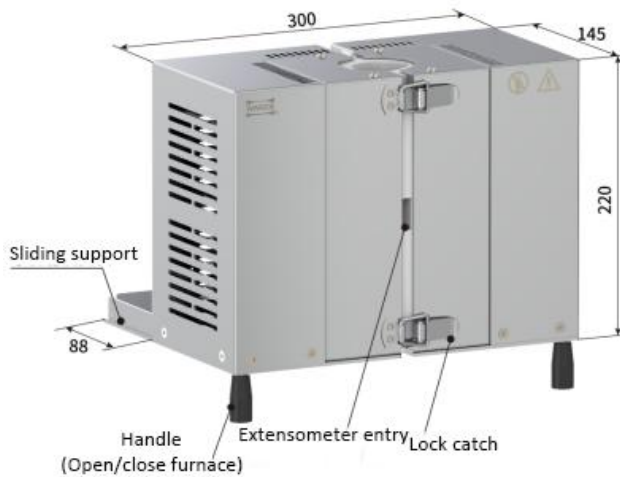
9. Hydraulic Pre-loaded Pull Rod



- Capacity: 68kN
- Specimen threads: M10;M12;M14;M14×1;M16;M16×1; (Selected according to user needs)
- High temperature material: DZ22
- Temperature range: ambient~1150℃
- Cooling mode: water cooling
- Includes hydraulic manual pump

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10. Furnace



Furnace



Temperature controller

Parameter			
Furnace structure	Heating in 3 zones, controlled separately		
Temperature range	100°C~1000°C		
Uniform temperature zone	60mm		
Heating zone dimension	L62.5*W62.5*H180mm		
External dimension	L300*W233*H220mm		
Heating wire	SiC		
Power supply	220V±10%		
Furnace movement	Precision rail		
Power consumption	1.3kW		
Thermal insulation material	Alumina fibre		
Temperature index	Test temperature	Temperature fluctuation	Temperature gradient
	100°C ~ 1000°C	±2°C	2°C
Heating time	≤20min		

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11. Chamber (compressor)

Model	EMC003BF-2
Matched testing machine	≤100kN, not desktop model
PC communication	RS232
Cooling method	Compressor cooling
Working temperature	-70~350℃
Temperature fluctuation	≤±1℃
Temperature deviation	≤±2℃
Temperature uniformity	≤2℃
Temperature meter accuracy	Class 0.2
Heating speed	RT ~ 350℃ ≤60min
Cooling speed	RT ~ -70℃ ≤60min
Internal dimension (DxWxH)	410x340x750mm
Heating power	5.5kW
Compressor power	3kW
Power supply	3-phase 380V, 50Hz



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12. Chamber (liquid cooling)

Model	EMC003AF-2	EMC003AF-3	EMC003AF-4
Matched testing machine	≤100kN	≤250kN	HDT505A, HDT106A
PC communication	RS232		
Cooling method	Liquid nitrogen cooling		
Working temperature	-70~350℃		
Temperature fluctuation	≤±1℃	≤±1℃	≤±2℃
Temperature deviation	≤±2℃	≤±2℃	≤±2℃
Temperature uniformity	≤2℃	≤2℃	≤2℃
Temperature meter accuracy	Class 0.2	Class 0.2	Class 0.2
Heating speed	RT ~ 350℃ ≤60min		
Cooling speed	RT ~ -70℃ ≤45min		
Inside dimension (DxWxH)	360x320x750mm	400x360x800mm	1000x500x800mm
Heating power	3 kW	5 kW	10kW
Power supply	3-phase 380V, 50Hz		



13. Air-cooled industrial chiller



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SPECIFICATION TABLE 规格参数表

型号 Model			HL-01A	HL-02A	HL-03A	HL-04A	HL-05A	HL-06A	HL-08AD	HL-10AD
参数 Parameters										
制冷量 Cooling capacity	KW/hr	50HZ	2.94	5.67	8.39	10.90	13.95	16.90	21.80	28.01
		60HZ	3.44	6.63	9.82	12.75	16.32	19.77	25.50	32.78
	Kcal	50HZ	2528	4872	7216	9347	11990	14560	18748	24089
		60HZ	2958	5701	8442	10698	14028	17000	21935	28184
温控范围 Temperature range			3℃-常温 (0℃以下可定制) 3℃ - Room temperature (Below 0℃ can be customized)							
电源 Power supply			1N-220V 50HZ / 60HZ				3N-380V/415V 50HZ/60HZ			
总功率 Total power	KW		1.27	2.02	2.85	3.65	4.86	5.61	7.65	9.90
压缩机 Compressor	类型 Type		全封闭涡旋式或活塞式 Hermetic scroll type or piston							
	功率 KW		0.75	1.50	2.20	3.00	3.75	4.50	6.00	7.50
风机 Blower	风量 M³/h		1000	2000	3000	4000	5000	6000	8000	10000
	功率 KW		0.14	0.14	0.28	0.28	0.36	0.36	0.9	0.9
冷凝器 condensator	形式 Form		高效铜管套波紋型铝翅片 Efficient brass sets corrugated aluminum fin							
蒸发器 Evaporator	水量 M³/h		0.51	0.97	1.44	1.87	2.40	2.91	3.75	4.82
	水容量 M³		0.028	0.040	0.050	0.050	0.065	0.065	0.13	0.18
	进出水管径 G		G1/2"	G1/2"	G3/4"	G3/4"	G1"	G1"	G1-1/2"	G2"
循环泵 Circulating pump	功率 KW		0.37	0.37	0.37	0.37	0.75	0.75	0.75	1.5
	扬程 m		22	22	22	22	23	23	23	21.5
机器尺寸 Machine size	L/mm		680	800	800	800	800	1045	1330	1330
	W/mm		420	480	600	600	600	555	725	725
	H/mm		720	850	1190	1190	1190	1160	1330	1330
机组重量 Unit weight	KG		60	90	130	140	170	210	270	350

型号 Model			HL-12AD	HL-15AD	HL-20AD	HL-25AD	HL-30AD	HL-40AD	HL-50AD	HL-60AD
参数 Parameters										
制冷量 Cooling capacity	KW/hr	50HZ	33.79	44.15	59.08	71.72	87.20	113.58	135.49	181.68
		60HZ	39.53	51.65	69.12	83.91	102.02	132.89	158.52	218.02
	Kcal	50HZ	29059	37965	50805	61683	74992	97675	116521	156249
		60HZ	33999	44419	59442	72169	87741	114280	136330	187499
温控范围 Temperature range			3℃-常温 (0℃以下可定制) 3℃ - Room temperature (Below 0℃ can be customized)							
电源 Power supply			3N-380V/415V 50HZ/60HZ							
总功率 Total power	KW		11.40	13.70	18.80	22.75	28.50	37.10	46.20	55.20
压缩机 Compressor	类型 Type		全封闭涡旋式或活塞式 Hermetic scroll type or piston							
	功率 KW		9.00	11.00	15.00	18.75	22.00	30.00	37.50	45.00
风机 Blower	风量 M³/h		12000	15000	20000	25000	30000	40000	50000	60000
	功率 KW		0.9	1.2	1.6	1.8	2.5	3.1	4.7	4.7
冷凝器 condensator	形式 Form		高效铜管套波紋型铝翅片 Efficient brass sets corrugated aluminum fin							
蒸发器 Evaporator	水量 M³/h		5.81	7.60	10.16	12.34	15.20	19.53	23.30	30.52
	水容量 M³ /h		0.18	0.21	0.28	0.32	0.32	0.61	0.66	0.72
	进出水管径 G		G2"	G2"	G2"	G2-1/2"	G2-1/2"	G3"	G3"	G3"
循环泵 Circulating pump	功率 KW		1.5	1.5	2.2	2.2	4.0	4.0	4.0	5.5
	扬程 m		21.5	21.5	22	22	25	25	25	26
机器尺寸 Machine size	L/mm		1550	1550	1760	1970	2000	1900	2400	2400
	W/mm		750	750	860	900	1130	1500	1450	1450
	H/mm		1460	1460	1560	1700	1660	1700	1700	1700
机组重量 Unit weight	KG		370	480	590	790	880	1000	1280	1420

备注：1、表中制冷量标定工况：冷冻水进水温度为12℃，出水温度为7℃，蒸发温度2℃，冷凝温度50℃，干球35℃，湿球24℃；2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管冻胀；3、风冷机组必须安装在通风良好的地方（如室外、楼顶），同时保证风道系统畅通无阻；4、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, table refrigeration Calibration conditions: Chilled water inlet temperature is 12℃, the water temperature of 7℃, evaporation temperature 2℃, condensing temperature 50℃, dry bulb 35℃, wet bulb 24℃; 2, when the ambient temperature is below 2℃ or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, the air-cooled unit must be installed in a well-ventilated place (such as outdoor, roof), while ensuring smooth air duct system; 4, Performance specifications are subject to change due to product improvements without notice 5, the system requires the use of soft water in order to avoid damage to the laser.