



Technical data and price list for GWDL-XL series precision high-temperature box-type resistance furnaces

	
	
Box-type electric furnace GWDL-XL with added function C-X3-V; Box-type electric furnace GWDL-XL with added function CXZ; For more models and optional functions, please visit the company's official website WWW.GWDL.COM	

Internet of Things



Technical parameters

Luoyang Juxing Kiln Co., Ltd.	
(National High-tech Enterprise, Specialized and Innovative Enterprise)	
GWDL-XL Box-Type Electric Furnace Product Introduction and Technical Data	
one,	Product Name: Resistance Furnace / Box-type Electric Furnace / Muffle Furnace



高新技术企业/专精特新企业
专业的高温加热制造工厂（-60℃~2600℃）

中国热处理行业协会理事单位
ISO9001:质量管理体系认证
欧盟CE产品认证

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		Model: GWDL-XL Specifications: 1200, 1400, 1600, 1700	
two,		1800 degrees	
three,		Product Introduction	
Refractory insulation materials		The furnace lining is made of vacuum-formed high-purity alumina lightweight material, which has high operating temperature, low heat storage, resistance to rapid heating and cooling, no cracking, no slag shedding, and good heat insulation performance. The furnace shell temperature is less than 45 degrees Celsius.	
Security Protection		The system employs an integrated modular control unit, ensuring accurate control precision. It features dual-loop control and dual-loop protection, including protection against overshoot, over-adjustment, under-adjustment, thermocouple breakage, phase loss, over-voltage, over-current, over-temperature, current feedback, and soft start. The furnace body is designed with a function to disconnect the main heating circuit by opening the furnace door at high temperatures during operation, significantly reducing the risk of electric shock during high-temperature material handling.	
Safe temperature control		Employing closed-loop technology with thyristor module trigger control, phase-shift trigger control, or zero-crossing triggering, the output voltage, current, or power is continuously adjustable, exhibiting constant voltage, constant current, or constant power characteristics. The current loop is the inner loop, and the voltage loop is the outer loop. When a sudden load is applied or the load current exceeds the current limit, the output current of the voltage regulator is limited to the rated current range, ensuring normal operation of the output and the voltage regulator. Simultaneously, the voltage loop also participates in regulation, limiting the output current of the voltage regulator to the rated current range, maintaining constant output current and voltage with sufficient adjustment margin. This protects the heating elements from excessive current and voltage surges, achieving safe, reliable, and precise control. It employs an intelligent temperature controller, equipped with multiple adjustment modes such as standard PID, AI-based APID, or MPT. It features self-tuning and self-learning functions, excellent	
Temperature profile setting		control characteristics with no overshoot or undershoot, and 30-segment programmable control, enabling temperature rise and fall control at any slope. It has programmable/operable commands such as jump (loop), run, pause, and stop, and allows modification of the program at any time during operation. Employing an AI adjustment algorithm with curve fitting capabilities, it achieves smooth and even curve control. The 50-segment programmable control function allows input settings: 50 segments for one curve, 28 segments for two curves, 15 segments for three curves, and 9 segments for five curves. Multiple curves can be input simultaneously and recalled at will. The panel has two buttons: a main power button/knob and a heating chamber on/off button/knob. Included accessories are a crucible tong and a pair of high-temperature	
Number of segments in the heating curve		gloves.	
five,		Warranty coverage and period	
The electric furnace comes with a one-year free warranty, but the furnace bottom plate and heating elements are not covered by the warranty (they will be replaced free of charge if they fail naturally within three months).			



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six,	Packing list
One electric furnace, one crucible tong, one pair of high-temperature gloves, one furnace bottom firing plate, one instruction manual, one certificate of conformity, one acceptance report (factory inspection report), and one sales	
seven,	delivery note. Precautions
1. To avoid affecting the lifespan of the electric furnace, it is recommended that the maximum heating and cooling rates be 1-15y/min. (Rapid heating at high temperatures will shorten the lifespan of the heating	
elements.) 2. This box furnace does not use a vacuum sealing structure, so flammable and explosive gases	
should not be introduced. 3. After a period of use, minor cracks may appear in the furnace chamber. This is normal and will not affect the use of the furnace. These can be repaired with an alumina coating. 4. It is not	
recommended to introduce corrosive gases. If you need to introduce highly corrosive gases such as sulfur (S) or sodium (Na), please inform us in advance, and we will treat the furnace	
chamber accordingly. 5. High-temperature solutions must not leak onto the furnace bottom. To prevent this, use a gasket or	
alumina powder for isolation. 6. The instrument should be placed in a well-	
	Shipping Information
ventilated, dry place. 8. 1. The electric furnace is packaged in three layers: first wrapped in foam paper, then wrapped in plastic film, and	
finally packed in a wooden crate. 2. Free delivery within China (free	
delivery within city limits). 3. We will bear the responsibility for any damage that occurs	
during the transportation of the electric furnace. 4. Logistics methods: truck, rail, ship (foreign trade export), air freight (foreign trade export). For	
nearby locations, our company will arrange dedicated transportation (packaging is wooden pallets and cardboard boxes).	

Nine,	Optional additional features are available (at an extra cost).		
name	Function Introduction		Function code
The temperature controller comes standard with 50 temperature rise curves; imported instruments are available as an option (B).		Two choices A \ B	
touchscreen	Chinese menu, storage of multiple heating process curves, storage of historical curves and data reports (7-inch).	Four options —	C
IoT Interface	The electric furnace RS485 communication interface reads and writes real-time data such as furnace start, pause, stop, heating curve, and		D
Computer control software and hardware	allowable time. The furnace can be started, paused, stopped, and its heating curve can be set, read, and parameters can be set via computer. It is highly reliable and easy to master. Measured values, setpoints, output values, time intervals, segment numbers, heating curves, and power percentage curves can be stored via computer. The setpoints and commonly used parameters can be modified. The time interval for recording historical curves and historical reports can be filtered (1 second to 1 hour) and can be stored for a long time.		E



PLC	Siemens PLC control is used (can read and write electric furnace start, pause, stop, ... Heating curve, time, temperature curve, atmosphere, flow rate, on/off quantity, electricity (Source, power) Open port and upstream and downstream equipment serial and parallel		F
data observation port	The observation port is designed on the furnace door and uses high-temperature resistant quartz glass.		H
air intake	Float flow meter + manual valve; Flow meter quantity, maximum production, gas medium Optional	Two choices	K
	digital mass flow meter; flow meter quantity, maximum production, and gas medium can be selected.	—	M
exhaust port	Select exhaust port, manual opening; DN30	Two choices	T
	electrically openable, automatically opening or closing the electric exhaust port and electric intake port in	—	P
Fully automatic intake and exhaust move	segment N according to the temperature rise curve. The temperature rise curve segment can be selected at any temperature. The section automatically opens and closes, using a PLC to automatically open and close during the heating process. (This assumes the touchscreen function is selected)		Y
Mobile casters for	Two omnidirectional and two directional casters		R
rapid cooling, electric	utilize a frequency converter and centrifugal fan to achieve programmable cooling. The		N
top-opening door, and multi-	electric top-opening door and foot control panel		S
point temperature control	increase heating by 10% and independent temperature control by 20%. Metal stirring fan (1050℃) -4000;		X
Mixing blower	Frequency converter -1500-2000; PLC and temperature control. Automatic start/customization - 4000; Control is		Z
Independent control cabinet	separated from the furnace body, adding an independent control cabinet (1600x600x400) and additional control... Cable length (within 5 meters)		Q
The regenerative furnace bottom	is recessed by 50mm and perforated, with multiple support points and additional firing plates, increasing the cost by 5%.		W
Exhaust gas treatment	Add VOC exhaust gas treatment furnaces of 40m³/h and 80m³/h.		V

ten	Model Specifications				
,					
	1200-degree electric furnace				
Name Specifications Model	Furnace dimensions (mm) (Length, width, height)	Dimensions (mm), Power (kW), Weight (kg)			
Box type electric furnace	GWDL-1200XL-A-27L 300×300×300	L=900, W=800, H=1650	9	125	



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	GWDL-1200XL-A-30L	500×300×200	L=1000, W=800, H=1550	10	130
	GWDL-1200XL-A-45L	500×300×300	L=1000, W=800, H=1650	12	140
	GWDL-1200XL-A-64L	400×400×400	L=1100, W=900, H=1750	15	240
	GWDL-1200XL-A-96L	600×400×400	L=1100, W=900, H=1750	18	260
	GWDL-1200XL-A-125L	500×500×500	L=1300, W=1000, H=1849	20	300
	GWDL-1200XL-A-200L	800×500×500	L=1300, W=1000, H=1850	22	350
	GWDL-1200XL-A-216L	600×600×600	L=1100, W=1100, H=2000	26	400
	GWDL-1200XL-A-270L	900×600×500	L=1400, W=1100, H=1850	36	450
	GWDL-1200XL-A-288L	800×600×600	L=1300, W=1100, H=2000	40	480
	GWDL-1200XL-A-340L	700×700×700	L=1600, W=1400, H=2100	43	500
	GWDL-1200XL-A-360L	1000×600×600	L=1600, W=1300, H=2000	45	550
	GWDL-1200XL-A-490L	1000×700×700	L=1600, W=1400, H=2100	65	650
	GWDL-1200XL-A-512L	800×800×800	L=1800, W=1500, H=2199	70	700
	GWDL-1200XL-A-768L	1200×800×800	L=1800, W=1500, H=2200	95	850
Note:	1. All models listed above are in stock. Custom furnace dimensions for special models can be made according to customer requirements (lead time 7-). Delivery within 10 days! Custom sizes will incur a 20% surcharge per unit, a 10% surcharge for 3-5 units, and no surcharge for 6 units or more.				
	2. Dimensions are in millimeters (mm). The dimensions shown are for reference only; the actual dimensions shall prevail.				
	1400-degree electric furnace				
Name	Specifications	Model	Furnace dimensions (mm) (Length, width, height)	Dimensions (mm), Power (kW), Weight (kg)	
Box type electric furnace	GWDL-1400XL-A-27L	300×300×300	L=900, W=800, H=1650	12	125



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	GWDL-1400XL-A-30L 500×300×200	L=1000, W=800, H=1550	13	130
	GWDL-1400XL-A-45L 500×300×300	L=1000, W=800, H=1650	15	140
	GWDL-1400XL-A-64L 400×400×400	L=1100, W=900, H=1750	18	240
	GWDL-1400XL-A-96L 600×400×400	L=1100, W=900, H=1750	22	260
	GWDL-1400XL-A-125L 500×500×500	L=1300, W=1000, H=1849	30	300
	GWDL-1400XL-A-200L 800×500×500	L=1300, W=1000, H=1850	35	350
	GWDL-1400XL-A-216L 600×600×600	L=1100, W=1100, H=2000	36	400
	GWDL-1400XL-A-270L 900×600×500	L=1400, W=1100, H=1850	45	450
	GWDL-1400XL-A-288L 800×600×600	L=1300, W=1100, H=2000	50	480
	GWDL-1400XL-A-340L 700×700×700	L=1600, W=1400, H=2100	55	500
	GWDL-1400XL-A-360L 1000×600×600	L=1600, W=1300, H=2000	60	550
	GWDL-1400XL-A-490L 1000×700×700	L=1600, W=1400, H=2100	75	650
	GWDL-1400XL-A-512L 800×800×800	L=1800, W=1500, H=2199	90	700
	GWDL-1400XL-A-768L 1200×800×800	L=1800, W=1500, H=2200	120	850
Note:	1. All models listed above are in stock. Custom furnace dimensions for special models can be made according to customer requirements (lead time 7-). Delivery within 10 days! Custom sizes will incur a 20% surcharge per unit, a 10% surcharge for 3-5 units, and no surcharge for 6 units or more.			
	2. Dimensions are in millimeters (mm). The dimensions shown are for reference only; the actual dimensions shall prevail.			
	1600-degree electric furnace			
Name Specifications Model	Furnace dimensions (mm) (Length, width, height)	External dimensions (mm)	power kw	weight (kg)
Box type electric furnace	GWDL-1600XL-A-27L 300×300×300	L=900, W=800, H=1650	12	125



	GWDL-1600XL-A-30L 500×300×200	L=1000, W=800, H=1550	13	130
	GWDL-1600XL-A-45L 500×300×300	L=1000, W=800, H=1650	15	140
	GWDL-1600XL-A-64L 400×400×400	L=1100, W=900, H=1750	18	240
	GWDL-1600XL-A-96L 600×400×400	L=1100, W=900, H=1750	24	260
	GWDL-1600XL-A-125L 500×500×500	L=1300, W=1000, H=1849	30	300
	GWDL-1600XL-A-200L 800×500×500	L=1300, W=1000, H=1850	35	350
	GWDL-1600XL-A-216L 600×600×600	L=1100, W=1100, H=2000	36	400
	GWDL-1600XL-A-270L 900×600×500	L=1400, W=1100, H=1850	45	450
	GWDL-1600XL-A-288L 800×600×600	L=1300, W=1100, H=2000	50	480
	GWDL-1600XL-A-340L 700×700×700	L=1600, W=1400, H=2100	55	500
	GWDL-1600XL-A-360L 1000×600×600	L=1600, W=1300, H=2000	60	550
	GWDL-1600XL-A-490L 1000×700×700	L=1600, W=1400, H=2100	75	650
	GWDL-1600XL-A-512L 800×800×800	L=1800, W=1500, H=2199	90	700
	GWDL-1600XL-A-768L 1200×800×800	L=1800, W=1500, H=2200	120	850
Note:	1. All models listed above are in stock. Custom furnace dimensions for special models can be made according to customer requirements (lead time 7-). Delivery within 10 days! Custom sizes will incur a 20% surcharge per unit, a 10% surcharge for 3-5 units, and no surcharge for 6 units or more.			
	2. Dimensions are in millimeters (mm). The dimensions shown are for reference only; the actual dimensions shall prevail.			
	1700-degree electric furnace			
Name Specifications Model	Furnace dimensions (mm) (Length, width, height)	External dimensions (mm)	power kw	weight (kg)



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Box type electric furnace	GWDL-1700XL-A-27L 300×300×300	L=900, W=800, H=1650	15	125
	GWDL-1700XL-A-30L 500×300×200	L=1000, W=800, H=1550	15	130
	GWDL-1700XL-A-45L 500×300×300	L=1000, W=800, H=1650	18	140
	GWDL-1700XL-A-64L 400×400×400	L=1100, W=900, H=1750	24	240
	GWDL-1700XL-A-96L 600×400×400	L=1100, W=900, H=1750	30	260
	GWDL-1700XL-A-125L 500×500×500	L=1300, W=1000, H=1849	36	300
	GWDL-1700XL-A-200L 800×500×500	L=1300, W=1000, H=1850	40	350
	GWDL-1700XL-A-216L 600×600×600	L=1100, W=1100, H=2000	40	400
	GWDL-1700XL-A-270L 900×600×500	L=1400, W=1100, H=1850	55	450
	GWDL-1700XL-A-288L 800×600×600	L=1300, W=1100, H=2000	60	480
	GWDL-1700XL-A-340L 700×700×700	L=1600, W=1400, H=2100	65	500
	GWDL-1700XL-A-360L 1000×600×600	L=1600, W=1300, H=2000	75	550
	GWDL-1700XL-A-490L 1000×700×700	L=1600, W=1400, H=2100	90	650
	GWDL-1700XL-A-512L 800×800×800	L=1800, W=1500, H=2199	120	700
	GWDL-1700XL-A-768L 1200×800×800	L=1800, W=1500, H=2200	150	850
Note:	1. All models listed above are in stock. Custom furnace dimensions for special models can be made according to customer requirements (lead time 7-). Delivery within 10 days! Custom sizes will incur a 20% surcharge per unit, a 10% surcharge for 3-5 units, and no surcharge for 6 units or more.			
	2. Dimensions are in millimeters (mm). The dimensions shown are for reference only; the actual dimensions shall prevail.			
	1800-degree electric furnace			
Name Specifications Model	Furnace dimensions (mm) (Length, width, height)	External dimensions (mm)	power kw	weight (kg)

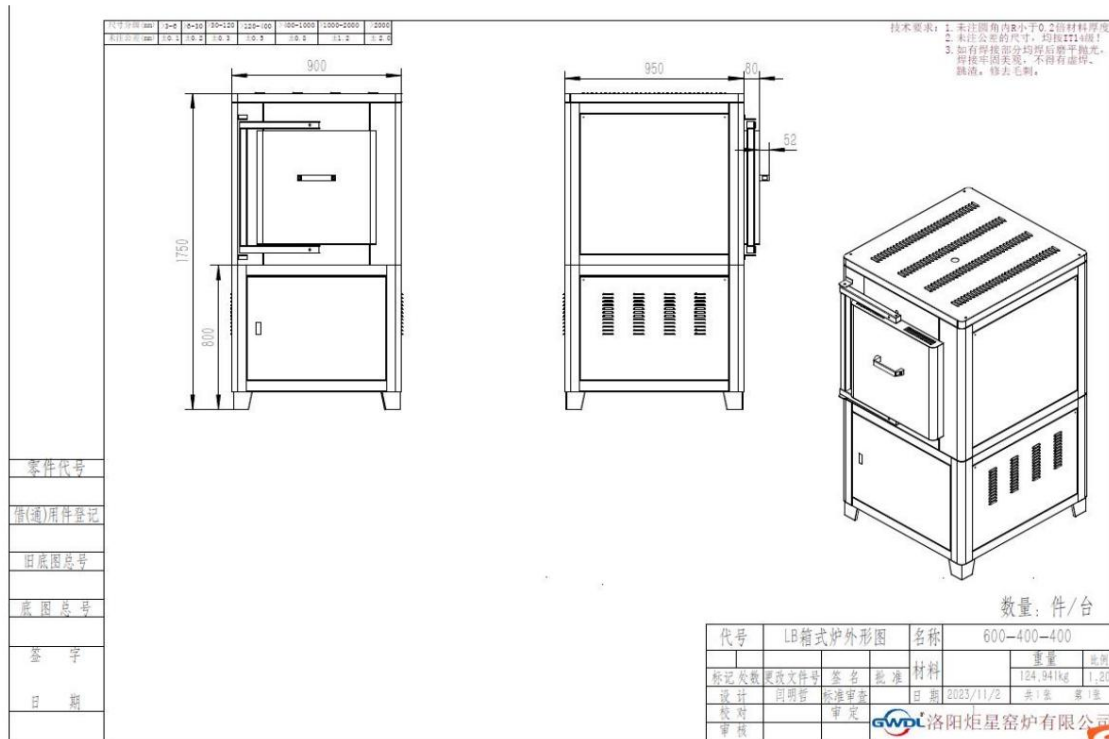


Box type electric furnace	GWDL-1800XL-A-27L	300×300×300	L=900, W=800, H=1650	15	125
	GWDL-1800XL-A-30L	500×300×200	L=1000, W=800, H=1550	15	130
	GWDL-1800XL-A-45L	500×300×300	L=1000, W=800, H=1650	18	140
	GWDL-1800XL-A-64L	400×400×400	L=1100, W=900, H=1750	24	240
	GWDL-1800XL-A-96L	600×400×400	L=1100, W=900, H=1750	30	260
	GWDL-1800XL-A-125L	500×500×500	L=1300, W=1000, H=1849	36	300
	GWDL-1800XL-A-200L	800×500×500	L=1300, W=1000, H=1850	40	350
	GWDL-1800XL-A-216L	600×600×600	L=1100, W=1100, H=2000	40	400
	GWDL-1800XL-A-270L	900×600×500	L=1400, W=1100, H=1850	55	450
	GWDL-1800XL-A-288L	800×600×600	L=1300, W=1100, H=2000	60	480
	GWDL-1800XL-A-340L	700×700×700	L=1600, W=1400, H=2100	65	500
	GWDL-1800XL-A-360L	1000×600× 600	L=1600, W=1300, H=2000	75	550
	GWDL-1800XL-A-490L	1000×700× 700	L=1600, W=1400, H=2100	90	650
	GWDL-1800XL-A-512L	800×800×800	L=1800, W=1500, H=2199	120	700
	GWDL-1800XL-A-768L	1200×800× 800	L=1800, W=1500, H=2200	150	850
Note:	1. All models listed above are in stock. Custom furnace dimensions for special models can be made according to customer requirements (lead time 7-). Delivery within 10 days! Custom sizes will incur a 20% surcharge per unit, a 10% surcharge for 3-5 units, and no surcharge for 6 units or more.				
	2. Dimensions are in millimeters (mm). The dimensions shown are for reference only; the actual dimensions shall prevail.				

List of main components of Juxing kiln				
Serial Number	Item Name	Classification	Manufacturer	Notes



			1200 degrees	1400 degrees	1600 degrees	1700 degrees	1800 degrees		
1. Outer shell		Double-layer shell	•	• • • •				Juxing Kiln	
2	heating element	electric heater	High-temperature alloy resistance wire	silicon carbide rods	silicon molybdenum rod	1800 Type of silicon molybdenum rod	1850 Type of silicon molybdenum rod	Juxing Kiln	
3	Electrical control section	Temperature controller 858P 858P 858P 858P 858P						Xiamen	
4		Thermocouple K		S	B	B	B	Yudian Dazheng/ Guangming	
5		Voltmeter • • • • •	Chint Ammeter • • • • •				Chint	Juxing Kiln	
6									
7		SCR power regulator	• • • • •						
8		Contactor • • • • •						Delixi	
9		Air circuit breaker • • • • •						Chint/	
10		Button • • • • •						Delixi Fast	
11		Buzzer • • • • •						Melting • • •	
12		• • Mingrong Juxing Kiln Furnace							
13		Transformer		• • • •					
14	Refractory and heat-insulating furnace	Ceramic fiberboard / Modular	1260	1500	1700	1800	1850	Juxing Kiln	
15		furnace opening insulation plug bricks (inner door)	• • • • •					Juxing Kiln	
16		Sintering plate	Quartz ceramics	Quartz ceramics	Corundum Mullite	Corundum Mullite	Corundum Mullite	Juxing Kiln	



Thank you to get in touch with us!

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