



Luoyang Juxing Kiln Co., Ltd.

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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	Box-type electric furnace GWDL-XL with added function S
	
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 (Network IoT)	



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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
two,	Model: GWDL-XL Specifications: 1200, 1400, 1600, 1700, 1800 Spend



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three,	Product Introduction
Refractory insulation materials	The furnace lining is made of vacuum-formed high-purity alumina lightweight material, suitable for high operating temperatures. It has low heat storage capacity, is resistant to rapid heating and cooling, does not crack or shed slag, and has good thermal insulation performance.
Furnace shell temperature	The outer casing temperature is less than 45 degrees Celsius.
Security Protection	An integrated modular control unit is adopted, ensuring accurate control precision, and a dual-loop control system is designed. It features dual-circuit protection, including overshoot, overadjustment, underadjustment, thermocouple interruption, phase loss, and overcurrent protection. Protections include overvoltage, overcurrent, overtemperature, current feedback, and soft start.
Power off when door is opened	The furnace body is designed with a function to open the furnace door and disconnect the main heating circuit when the temperature is high during operation. This greatly protects against the risk of electric shock when handling materials at high temperatures.
Safe temperature control	Thyristor module triggering control using closed-loop technology, phase-shift triggering control, or zero-crossing triggering. The power generation method allows for continuous adjustment of output voltage, current, or power, and features constant voltage and constant current. Characteristics of current flow or constant power; the current loop is the inner loop, and the voltage loop is the outer loop, under sudden negative pressure. When the load current exceeds the current limit value, the output current of the voltage regulator is limited to the rated current. Within the current range, ensure the output and voltage regulator operate normally; at the same time, the voltage loop also participates in regulation. This limit ensures that the output current of the voltage regulator is kept within the rated current range, provided there is sufficient... Maintain constant output current and voltage while adjusting for margin; thereby achieving protection. Heating elements are protected from excessive current and voltage surges to achieve safe and reliable control. Results and control precision. An
Temperature profile setting	intelligent temperature controller is adopted, equipped with standard PID, AI-controlled APID, or MPT. It features multiple adjustment modes, self-tuning and self-learning functions, and is free from overshoot and undershoot. It possesses excellent control characteristics, featuring 30-segment programmable control, and can achieve arbitrary slopes. Temperature rise and fall control, with programmable functions such as jump (cycle), run, pause and stop. The program/operable commands allow for modification of the program at any time during its controlled execution; Using AI-powered adjustment algorithms with curve fitting capabilities, a smooth and even finish can be achieved. Curve control effect;
Number of segments in the heating curve	The 50-segment programmable control function allows input settings: 50 segments for one curve, and 50 segments for two curves. Lines: 28 segments/line; Three-curve lines: 15 segments/line; Five-curve lines: 9 segments/line; Simultaneous input is possible. Multiple curves can be input and selected at will during use. 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 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).	
six,	Packing list
One electric furnace, one crucible tong, one pair of high-temperature gloves, one furnace bottom support plate, one instruction manual, and one certificate of conformity.	
One acceptance report (factory inspection report) and one sales delivery note. Notes	
seven,	
1. To avoid affecting the lifespan of the electric furnace, it is recommended that the maximum heating and cooling rates be 1-15°/min (at high temperatures).	
(Rapid heating will shorten the lifespan of the heating element)	
2. This box furnace does not use a vacuum sealing structure, so flammable and explosive gases must not be introduced.	



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3. After a period of use, minor cracks may appear in the furnace chamber of this box furnace. This is normal and will not affect its use. It 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. Do not allow high-temperature solutions to leak onto the furnace bottom. To prevent this,
use a pad or alumina powder for isolation. 6. The instrument should be
placed in a well-ventilated, dry place. VIII. Shipping Information 1. The electric furnace is packaged in
three layers: 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 be responsible for any
damage that occurs during the transportation of the electric furnace. 4. Logistics
methods: truck, rail, ship (for export), air (for export). For nearby locations, our company will arrange dedicated transportation (packaging: 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). The	Four choices —	C
IoT Interface	electric furnace features an RS485 communication interface for reading and writing real-time data such as furnace start-up, pause, stop, heating		D
Computer control software and hardware	curves, and allowable time. Computer control allows for furnace start-up, pause, stop, heating curve setting, reading, and parameter setting, ensuring high reliability and ease of use. Measured values, setpoints, output values, time intervals, segment numbers, heating curves, and power percentage curves can be stored via computer. Setpoints and commonly used parameters can be modified. Historical curves and reports can be filtered by time interval (1s-1h) and can be stored long-term. Siemens PLC control is used		E
PLC	(reads and writes furnace start-up, pause, stop, heating curves, time, temperature curves, atmosphere, flow rate, switch status, power supply, and power). Open ports allow for serial and parallel data observation with upstream and downstream equipment. The		F
observation port is located	on the furnace door and uses high-temperature resistant quartz glass.		H
air intake	Float flow meter + manual valve; digital display mass flow meter with selectable flow meter quantity,	Two choices —	K
	maximum production, and gas medium; exhaust port with manual opening; DN30 electrically operated,		M
exhaust port	automatically opening or closing in N	Two choices	T
	segments based on the temperature rise curve; the electric exhaust port and electric air	—	P
Fully automatic intake and exhaust	inlet can be linked to the temperature rise curve segment selection, automatically opening and closing at any temperature segment; PLC-based automatic opening and closing during the heating process (provided the touch screen function is selected).		Y
Portable casters	Two omnidirectional wheels, two directional wheels		R



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Rapid cooling, electric	Utilizing a frequency converter and centrifugal fan, programmable cooling, electric top-	N
top-opening door, multi-	opening door, and foot pedal control panel	S
point temperature control	increase revenue by 10% with multiple heating options and 20% with independent temperature control.	X
Mixing blower	Metal stirring fan (1050°C) -4000; Frequency converter -1500-2000; PLC and temperature range automatic control. Automatic start/customized - 4000:	Z
Independent control cabinet	The control is separated from the furnace body, requiring an independent control cabinet (1600x600x400) and additional control cables. 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 (length) mm (width and 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
	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-125 L	500×500×500	L=1300, W=1000, H=1849	20	300
	GWDL-1200XL-A-200 L	800×500×500	L=1300, W=1000, H=1850	22	350
	GWDL-1200XL-A-216 L	600×600×600	L=1100, W=1100, H=2000	26	400
	GWDL-1200XL-A-270 L	900×600×500	L=1400, W=1100, H=1850	36	450
	GWDL-1200XL-A-288 L	800×600×600	L=1300, W=1100, H=2000	40	480
	GWDL-1200XL-A-340 L	700×700×700	L=1600, W=1400, H=2100	43	500
	GWDL-1200XL-A-360 L	1000×600× 600	L=1600, W=1300, H=2000	45	550



Luoyang Juxing Kiln Co., Ltd.

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	GWDL-1200XL-A-490 L	1000×700× 700	L=1600, W=1400, H=2100	65	650
	GWDL-1200XL-A-512 L	800×800×800	L=1800, W=1500, H=2199	70	700
	GWDL-1200XL-A-768 L	1200×800× 800	L=1800, W=1500, H=2200	95	850
Note:	1. All models listed above are in stock. Special models with furnace chamber dimensions can be customized according to customer requirements (delivery time 7-10 days)! Customized sizes will incur a 20% price increase for a single unit, a 10% price increase for 3-5 units, and no price increase for 6 units or more. 2. Dimensions are in millimeters (mm). The dimensions listed are for reference only; the actual dimensions shall prevail.				
	1400-degree electric furnace				
Name	Specifications Model	Furnace dimensions (length, width, height) in mm	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
	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		260
	GWDL-1400XL-A-125 L	500×500×500	L=1300, W=1000, H=1849	30	300
	GWDL-1400XL-A-200 L	800×500×500	L=1300, W=1000, H=1850	35	350
	GWDL-1400XL-A-216 L	600×600×600	L=1100, W=1100, H=2000	36	400
	GWDL-1400XL-A-270 L	900×600×500	L=1400, W=1100, H=1850	45	450
	GWDL-1400XL-A-288 L	800×600×600	L=1300, W=1100, H=2000	50	480
	GWDL-1400XL-A-340 L	700×700×700	L=1600, W=1400, H=2100	55	500
	GWDL-1400XL-A-360 L	1000×600× 600	L=1600, W=1300, H=2000	60	550
	GWDL-1400XL-A-490 L	1000×700× 700	L=1600, W=1400, H=2100	75	650
	GWDL-1400XL-A-512 L	800×800×800	L=1800, W=1500, H=2199	90	700



Luoyang Juxing Kiln Co., Ltd.

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	GWDL-1400XL-A-768 L	1200×800× 800	L=1800, W=1500, H=2200	120	850
Note:	1. All models listed above are in stock. Special models with furnace chamber dimensions can be customized according to customer requirements (delivery time 7-10 days)! Customized sizes will incur a 20% price increase for a single unit, a 10% price increase for 3-5 units, and no price increase for 6 units or more. 2. Dimensions are in millimeters (mm). The dimensions listed are for reference only; the actual dimensions shall prevail.				
	1600-degree electric furnace				
Name Specifications Model		Furnace dimensions (length, width, height) in mm	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		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. Special models with furnace chamber dimensions can be customized according to customer requirements (delivery time 7-10 days)! Customized sizes will incur a 20% price increase for a single unit, a 10% price increase for 3-5 units, and no price increase for 6 units or more. 2. Dimensions are in millimeters (mm). The dimensions listed are for reference only; the actual dimensions shall prevail.				



Luoyang Juxing Kiln Co., Ltd.

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



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

Juxing Kiln Main Component Configuration List							
Serial Number	Item Name	Classification				factory	Remark
		1200	1400 1600 degrees	1700	1800		
			• • • • Juxing Kiln	degrees	degrees		
degrees	1 Double-layer outer shell •						



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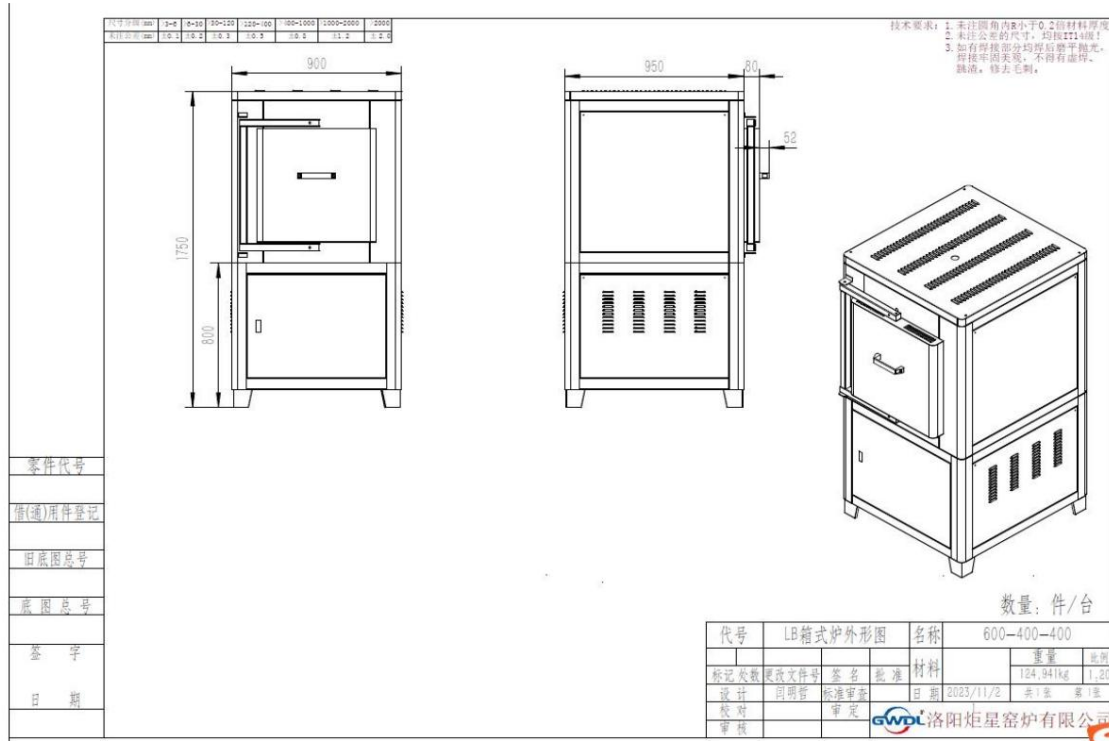
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		shell							
2	electro-thermal element	electric heating instrument	high temperature alloy resistance Silk	Silicon carbon Great	silicon molybdenum Great	1800 Type Silicon molybdenum rod	1850 Type Silicon molybdenum rod	Juxing Kiln	
3	Electrical appliances control part	Temperature controller 858P 858P 858P 858P 858P Xiamen Yudian							
4		Thermocouple K		S	B	B	B	Taisho/Hikari bright	
5		Voltmeter •		• • • •	Chint				
6		Ammeter •		• • • •	Chint				
7		SCR adjustment Power tools	•	• • • •	Juxing Kiln				
8		Contactor •		• • • •				Chint/Germany Lixi	
9		Air circuit breaker •		• • • •				Chint/Germany Lixi	
10		Button •		• • • •				Chint/Germany Lixi	
11		Buzzer •		• • • •				Chint/Germany Lixi	
12		Fast-melting •		• • • •	Mingrong				
13		Transformer •		•	• • •	Juxing Kiln			
14	refractory Heat insulation furnace	Ceramic fiber PVC board/mold piece	1260 1500 1700	1800 1850	Juxing Kiln				
15		Furnace opening partition heat seal brick (Inside Door)	•	• • • •	Juxing Kiln				
16		Sintering plate	quartz ceramics	quartz ceramics	Corundum Mo Lai stone	Corundum Mo Lai stone	Corundum Mo Lai stone	Juxing Kiln	



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Thank you to get in touch with us!

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