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Specification Data- AGING OVEN,9 BASKETS,SINGLE DOOR

1. Main design parameters

Sr.	Item	Specification	Note
1.1	Layout	3 rows, 3 layers, 9 baskets	
1.2	Maximum load capacity	9T~11T/batch	
1.3	Maximum heating temperature	250℃	
1.4	Circulating fan power	45kw	
1.5	Temperature difference	≤±5℃	After 30 minutes of heat preservation
1.6	Heating time	＜120min	
1.7	Feed motor power	2.2kw	
1.8	Furnace door motor power	2.2kw	
1.9	Total power	About 55KW	

1.10	Burner	600,000 Kcal/h	Industrial Burner
1.11	Gas consumption	8-10m^3/T aluminum profile	Condition: 1.Aging process heating1-1.5 hours, heat preservation 2 hours; 2.Full loading; 3.Continuous production.
1.12	Furnace shell temperature rise	≤20℃	Relative to indoor ambient temperature, except for internal and external connections and furnace door
1.13	Compressed air consumption	0.2m^3/min	
Note: the above parameters may vary slightly according to the design requirements.			

2. Configuration description

2.1 Furnace size

Maximum length(mm)	7500					
Basket size(mm)	length：	6,000	width：	800	height：	600
Furnace chamber size (mm)	length：	8,000	width：	3,000	height：	2,250
Loading space(mm)	length：	7,500	width：	2,700	height：	1,800
Furnace size(mm)	length：	9,800	width：	3,480	height：	3,360
Totally length(mm)	19,600					
Furnace door frame height(mm)	6,170		Note: The above dimensions are for reference only.			

2.2 Circulating fan: the fan is installed on the upper part of the furnace body;

2.3 Furnace structure: the furnace body bracket is welded with channel steel, angle steel, rectangular welded pipe, etc., and the furnace wall sealing plate is δ2-Q235 plate;

2.4 Insulation: the thickness of the insulation layer on both sides and top of the furnace body is 200mm, the thickness of the insulation layer at the bottom of the furnace is 120, the thickness of the insulation layer of the furnace door is 160mm; the insulation material is made of high-quality aluminum silicate fiber cotton;

2.5 Furnace door: The thickness of the furnace door is 850mm, and the inside of the furnace door is equipped with a circulating air duct; the furnace door is dragged and lowered by the electric hoist, each furnace door is locked by the cylinder; the geared motor is the worm gear reduction motor.

2.6 Trolley: The furnace is equipped with two trolleys. The trolley is a channel steel frame structure. The lower part of the trolley is equipped with a plurality of rollers. Two roller bearings are mounted on each roller. The trolley is placed in and out of the furnace. Needle reducer and chain push log drag;

2.7 Heating method: Integrated burner for direct heating.

3. Main components

No.	Item.	Specification	Brand
1	Fan	45kw	YueJia
2	Burner	600,000 Kcal/h	Giansun
3	Reducer	BWD series	Guangzhuo
4	Reducer	3 KW	Mingji
5	Pneumatic system	Confirmed by designing	Chelic/SNS
6	Button	XB2series	Schneider
7	Breaker	GV2series	Schneider
8	AC contactor	LC1series	Schneider
9	Limit switch		Schneider
10	Wire andCable	National standard	

4. Wearing Parts List

No.	Item.	Parts	Remarks
1	Thermal resistance	Temperature detection	Thermal resistance is a key componentof the aging process. It is related to the final hardness of the profile. It is necessary to check the integrity of the profile before entering the furnace.
2	Trolley drive chain	Trolley	Regularly check its integrity and tightness.
3	Furnace door lift wire rope	Trolley lifting door	For safety components,thewearischecked regularly and the wire rope istightened according to the actual position.
4	Burner	Heating system	The components of the burner are imported components. It is necessary to check whether the voltage of the circuit is stable and whether there is an accidental surge current.

5.Scope of supply

Furnace body	1set
Furnace door with lifting device	1set
Burner	1set
Outer track and trolley drive device	1set
Electrical control system	1set
Fan	1set
Loading trolley	1set

6. Technical information provided by the seller

6.1 Equipment floor plan, foundation drawings (if needed);

6.2 List of wearing parts;

6.3 Electrical control schematic diagram;

6.4 Equipment instruction manual;

6.5 The above Article 6.1 will be provided after the completion of the product general plan design, and other technical documents will be provided at the time of shipment.

7. Provided by buyer

7.1 Compressed air: The buyer should connect the air source to the inlet of the gas source triple junction of the furnace;

7.2 Gas source: The buyer should install a pressure reducing valve, a pressure gauge and a shut-off valve at the output end (the pressure reducing valve,pressure gauge and shut-off valve are provided by the customer), decompress the gas source to 50KPa to 100KPa, and connect to The interface of the intake pip e of the equipment; (interface diameter is 1½ inches)

7.3 The buyer should connect the power supply to the main electrical cabinet main power switch;

7.4 Foundation: The foundation and embedded parts shall be made by buyer according to the drawings, (the embedded parts should be provided by the buyer)

Notes:All the pictures in the document are for reference only.