

## **High Vacuum Aluminum Brazing Furnace**

# Model:RVSL-1111

## **Technical Proposal**



\* This photo only for reference, the real furnace maybe not 100% similar

### 1.Usage & Features

The RVSL-1111 high vacuum Aluminum soldering furnace is horizontal type with front door & back door design. High pumping speed oil diffusion pump groups, full metal shield insulation layers, fast pumping speed & inner clean. It's used in aluminum base materials vacuum brazing, finished works keep bright surface & non-oxidation.

Website:www.vacfurnace.com



The control system was controlled by PLC, Manual or Auto undisturbed switches and alarm function for abnormal condition, high automation and easy operation.

### 2.Work condition

1.Power : 3 Phase 380V ( ±6% ) ; 50H	łΖ
2.Cooling water: Inlet pressure 0	0.1~0.3Mpa ; temp≤35℃;
3.Cooling water flow rate: abut 30 M <sup>3</sup> /h; PH value about 7; Soft water	
without any sand or inclusion.	
4.Working environment: Environment temperature :0°C~35°C; environment	
humidity≤95%(25℃); Altitude lower 2000m.	
5.Compressed air: Pressure 0.4 ~ 0.	.6Mpa
3.Technical indexes	
1.Type: Horizontal	type、Front & back door
2.Max charging capacity ( 650C ) : 1500kg	
3.Uniform zone size (mm) : 1100W x 1100H x 1100L mm	
4.Ultimate vacuum ( cold furnace condition ) :	6×10 <sup>-₄</sup> Pa
5. Pressure rising rate ( empty cold furnace conditi	ion): ≤0.3pa / h
6. Pumping speed rate(empty cold furnace condition, timing from main valve	
open till pumping to 5×10 <sup>-3</sup> Pa):	35 min
7.Maximum design temperature:	<b>850</b> ℃
8.Working temperature:	610C -750C
9.Heating rate (empty cold furnace condition to 600	)C): ≤40 min
10.Temperature uniformity(vacuum, empty, 600C):	$\pm5^\circ C$ ( 9 points )
11.Temperature control precision:	<b>±1</b> ℃
12.Heating power:	340KW

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13.Total power:450KW14.Max charging pressure ( absolute pressure ) :0.10 Mpa15.Cooling way:Vacuum cooling , gas cooling

#### 4. Structure & Capability

RVSL-1111 vacuum furnace was assembled by vacuum system, shell, heating chamber, control system, cooling system, water cooling system, air charging & degassing system, pneumatic system, temperature measuring system,& feeding.