Vacuum Hot Press Furnace Machine For Lamination And Heating

Item Number: KT-VLP

Introduction

Experience clean and precise lamination with Vacuum Lamination Press. Perfect for wafer bonding, thin-film transformations, and LCP lamination. Order now!

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Dimensions	Over-all: 775mm(L) x 550mm(W) x 1325mm(H)
Structure	• Two 135 x 135 mm flat heating platens made of high temperature resistant Cr steel with max. • working temperature of 500ºC • 1000W Heating element is inserted into the center of the heating plates for fast heating • Max. Load on 135x135mm Heated Platen: 10 Metric Tons at 500°C (55 kg/cm2);20 Metric Tons at RT (110 kg/cm2) • Two precision temperature controllers which control two heating plates separately • with 30 programmable segements • Water cooling jackets are built on the both top & bottom of the heating plates for assisting cooling
Hydraulic Pump	• Modified electric hydraulic press is connected to vacuum chamber. • Movable distance between two heating plates: 15 mm. • Automatic max. pressure controlled via a digital pressure gauge. • Pressure accuracy: +/-0.01 Mpa (0.1 kg/cm²) • Two flat heating plates are installed with water cooling plates for Max. 500ºC working temperature. • Water cooling (>15L/min) is required to cool the heating plates when the operating temperature is over 200 ºC.
Temperature control and Pressure Display	• Two precision temperature controllers with 30 programmable segments control the heating plates . • separately with +/1°C accuracy. • The temperature controllers have PID auto tune function, over-temperature protection and thermal couple broken protection. • Max. Temperature: 500°C with inert gas or vacuum with accuracy +/-1°C • Max. Heating rate: 2.5°C/min • Software and PC interface is built in the controller , which can be connected to a PC for computer controlling via a RS232 connector. • Digital pressure meter (controller) is built outside the vacuum chamber. • You can set pressure at the desired value which can stop the electric hydraulic press automatically.
Vacuum Charmber	• Electric hydraulic press and heating plates are placed inside then vacuum chamber. • Vacuum chamber is made of SS304 with the size: 525Lx480Wx450H (mm). • Vacuum chamber Capacity : about 75 Liters. • 300mm dia. vacuum sealed hinged type door with 150mm Dia. quartz glass window is installed for easy sample loading and observation. • Silicone O-ring can be used for all vacuum sealings . • One precision digital vacuum guage (10E-4 torr) is installed on the vacuum chamber .

Model	KT-VLP100	KT-VLP300	KT-VLP400
Heating plate size	100x100mm	300x300mm	400x400mm
Plates travel distance	30mm	40mm	40mm
Working pressure	30T during heating/40Tin the cold state		
Pressure gauge	Digital pressure gauge		
Heating temperature	<500℃		
Temperature control	Touch screen with PID thermal controller		
Vacuum chamber	304 Stainless steel		
Vacuum pump	Rotary vane vacuum pump		
Vacuum pressure	-0.1Mpa		
Power supply	AC110-220V, 50/60HZ		