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## Model 5100 Vacuum Pressure Furnace

The Model 5100 is a vacuum and pressure furnace that provides precise automatic control of heating and cooling ramp rates. This system allows for heating up to 500°C and cooling in an inert gas environment from vacuum levels below 50 millitorr to pressures up to 40 psig. An unlimited number of process profiles can easily be created and stored in the controller. Process heating is provided over the entire work area by a close-coupled planar infrared heating element. The system is designed for high production flux-less void-free soldering.



Specifications	Datasheet	Processes	Applications
Operating Temperature Range	100 to 500°C		
Thermal Work Zone	12 x 12 in = 144 in <sup>2</sup> (30.5 x 30.5 cm = 930 cm <sup>2</sup> )		
Minimum Vacuum Level	< 50 millitorr (< .067 mbar)		
Maximum Chamber Gas Pressure Level	40 psig (3.7 bar)		
Process Gasses	N <sub>2</sub> required, (Ar He, forming gas optional) @ 90 psig (7 bar) minimum pressure. Formic acid generator (optional)		
Electrical Service	208-240 volts, 50/60 Hz, three phase, 50 amps, 5 kW average, 20 kW maximum 380 volts, 50/60 Hz, three phase, 30 amps		
Cooling Water Required	2 gpm (8 lpm) @ 20-25°C, 2 kW minimum, 30 psig (2 bar) pressure differential		
Work Surface Height	39 in (99 cm)		
Overall Size (W x D x H)	43 x 34 x 55 in (108 x 86 x 140 cm)		
Weight	1000 lb (455 kg)		
Specifications are subject to change.			

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