



# VP2100

## Vapor Phase Soldering Systems Compact Inline System for Series Production

ASSCON vapor phase reflow soldering systems set standards in soldering technology. The VP2100 inline series are based on advanced patented high-tech soldering methods, and offer outstanding soldering quality in large series production.

### VP2100 INLINE

The innovative inline soldering system for large series users is based on the highly successful oxygen-free process used in all ASSCON soldering systems, in which oxygen is excluded from the pre-heating and soldering process. Components are produced in the highest standard of quality. Production is also supported by dynamic profiling – a process for automatically controlling the optimum soldering profile in series production.

The system is designed for bare-board product processing on large series production lines. Electrically width-adjusted conveying systems and center support permit fast straight-forward adjustment for flexible production. The system is modularly designed, and consists of loading station, soldering and cooling zones. A vacuum unit can be optionally installed or retrofitted in the field.

### OPTIMUM TEMPERATURE CONTROL

The use of liquid or vapor for as a mean of energy transmission is far more effective than convection. The vapor condenses on the solder product, the condensate encapsulates it completely, and thus transmits the energy. The entire pre-heating and soldering process takes place in an oxygen-free environment. Product overheating, component damage or PCB delamination cannot occur. An optimum temperature is automatically guaranteed at all positions on the product thanks to infinite sensor-based temperature gradient controlling.

### PRODUCT BENEFITS

- perfect solder joints thanks to the use of advanced technology
- reproducible process conditions
- no overheating or destruction of electronic components
- low energy costs thanks to smart energy management
- low overall running costs
- full traceability capability
- product changing without waiting times
- void Free Soldering due to Multi Vacuum Technology

**70%**

less energy  
consumption

**4.2 kWh**

average  
energy  
consumption\*

\* per h/measured on VP2100-100

# VP2100 inline

## Compact Inline System for Series Production

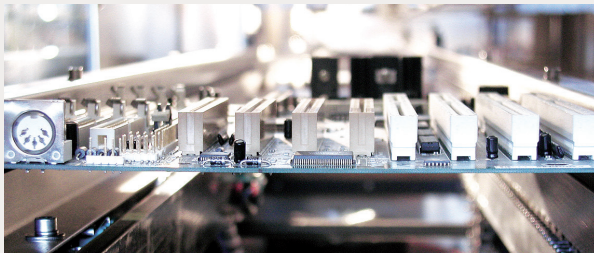
RANGE OF APPLICATION

**INLINE OPERATION | SERIES PRODUCTION | LARGE SERIES**

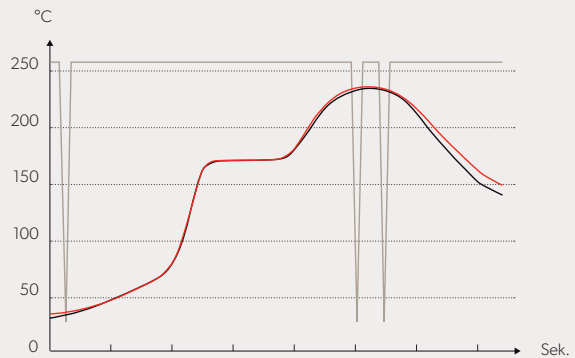
PRODUCT	VP2100 - 100	VP2100 - 100 VACUUM
TECHNICAL DATA		
Transport	single lane	single lane
Max. solder product format	750 x 620mm	600 x 520mm
Component height	up to 90mm	up to 90mm
Ready for use	ca. 30min	ca. 60min
Connecting power	9.6kW	15.5kW

### MULTI VACUUM

Due to a vacuum step following the soldering process, inclusions (voids) are removed from the solder joint before the solidification phase has taken place.



The systems are equipped with electrically width-adjusted conveying systems and center support.



Multi Vacuum Technology enables up to three vacuum steps per soldering cycle.