

**WI**

**High-Vacuum Resistance Furnaces**

**for special high-temperature processes**

# WI High-Vacuum Resistance Furnaces

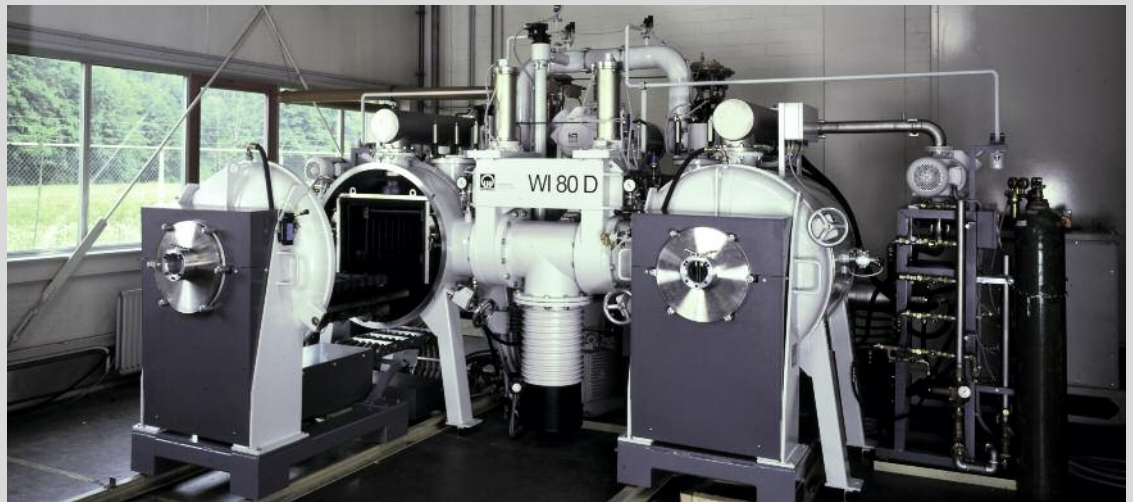
ALD WI high-vacuum resistance furnaces are specially designed and built for applications in industry and research with extraordinary requirements in high-temperature processes, such as:

- Vacuum annealing, degassing and refining
- Sintering of metals and ceramics
- Liquid-phase sintering and metal impregnation
- Vacuum brazing and active-metal brazing
- Vacuum material testing

Each ALD WI furnace is sized and configured for a specific process and application with respect to furnace size, layout, vacuum system, hot zone and charging system. High-vacuum can be achieved by diffusion pumps or completely dry turbo-molecular pumps. ALD also has industrial experience with and provides safe solutions for high-temperature hydrogen furnaces.

For ultrahigh-vacuum applications, a special ALD double-chamber concept has been proven to permit an ultimate vacuum in the heat treatment chamber of  $<10^{-8}$  mbar at 1850°C.

All furnaces are equipped with state-of-the-art PLC process control and visualization.



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