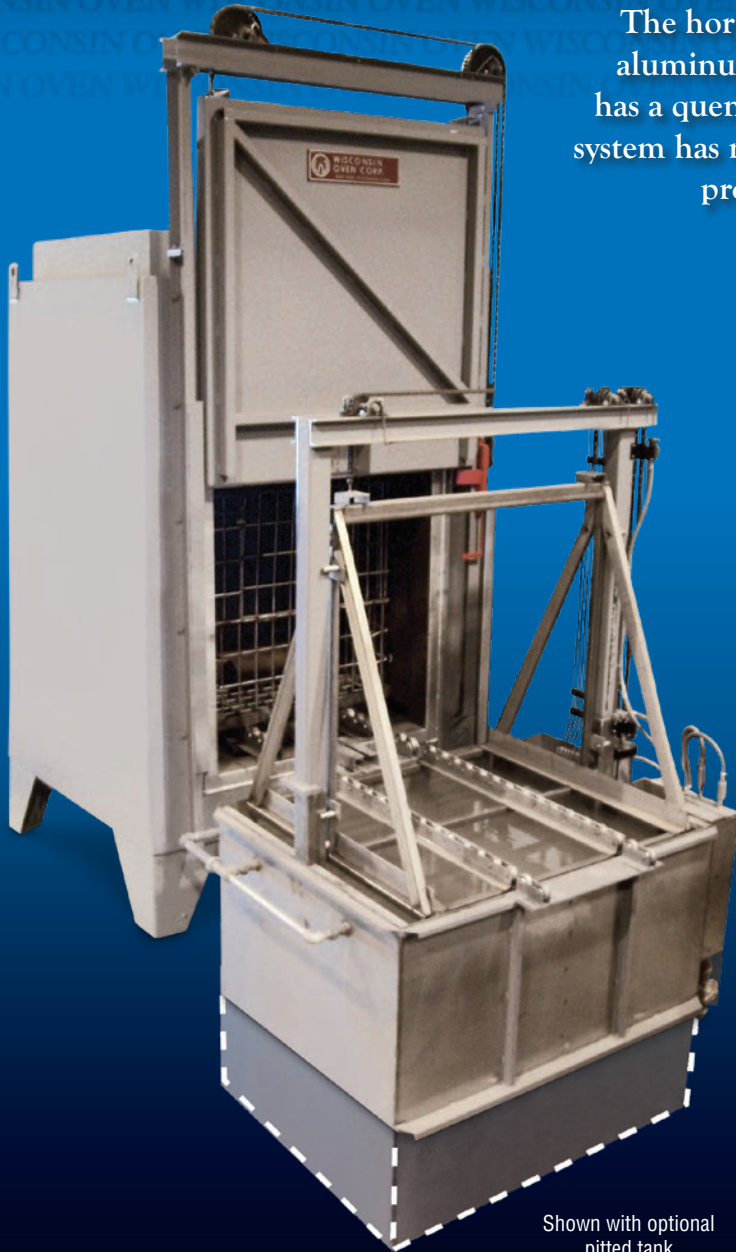




WISCONSIN OVEN

Horizontal Quench System

The horizontal quench system is used for heat treating aluminum. It can be used for loads up to 6,000 lbs and has a quench time of 7-15 seconds. The horizontal quench system has maximum temperature ratings up to 1,400° F and provides excellent temperature uniformity.



Shown with optional pitted tank

Benefits:

- Cost effective alternative to a drop bottom furnace
- High load capacity ideal for a wide range of applications
- Automated controls available for easier operation
- Fully factory assembled and tested prior to shipment to reduce installation and start-up time

Standard Operating Procedure:

Parts are loaded on a work grid located on the rollers (quench platform). An electric pusher/extractor mechanism pulls the load into the furnace for heat treating. After the heating cycle is completed, the pneumatically operated vertical lift door is manually opened and the extractor mechanism pushes the load onto the quench platform and then quenched. Purchasing an optional 2 tier quench platform will allow one load to be charged into the furnace while another load is quenched.

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Standard Features:

- High capacity recirculation blower
- Quench tank water agitation pump with distribution manifold
- Gas fired or electrically heated
- Combination airflow through oven chamber
- Carbon steel work grid (stainless steel also available)
- Standard temperature uniformity of +/- 15° F, tighter tolerances available upon request
- Air operated vertical lift oven door and quench platform
- Main power disconnect switch
- 480/3/60 power supply (other voltages available)
- FM, NFPA, NEC compliant
- Shipped completely piped, wired, fully tested and certified (as required)

Options:

- Programmable controllers and chart recorders
- Data acquisition
- PLC control system
- Process timers (oven & quench)
- Baskets
- Energy efficient E-pack™ upgrade
- Dual tier quench platform
- Larger capacity tanks for reduced quench temperature rises
- Quench tank cooling
- Stainless steel tank construction for corrosion resistance
- Automated operation
- Installation, start-up and training at your facility (turnkey or a working supervisor)
- AMS 2750E compliance available



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Standard HQS Oven Specifications

Model	Max. Basket Dimensions			Heat Capacity		
	Width	Height	Length	KW	Burner Rating BTU's	Recirculation Blower
1,250° F						
HQS-668	30"	30"	42"	60	300,000	7,000 CFM @ 10 HP
HQS-888	42"	42"	42"	96	450,000	10,000 CFM @ 15 HP
HQS-101010	54"	54"	54"	120	650,000	10,000 CFM @ 15 HP
HQS-1288	66"	42"	42"	120	650,000	10,000 CFM @ 15 HP
HQS-12101010	66"	54"	54"	144	750,000	15,000 CFM @ 15 HP



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