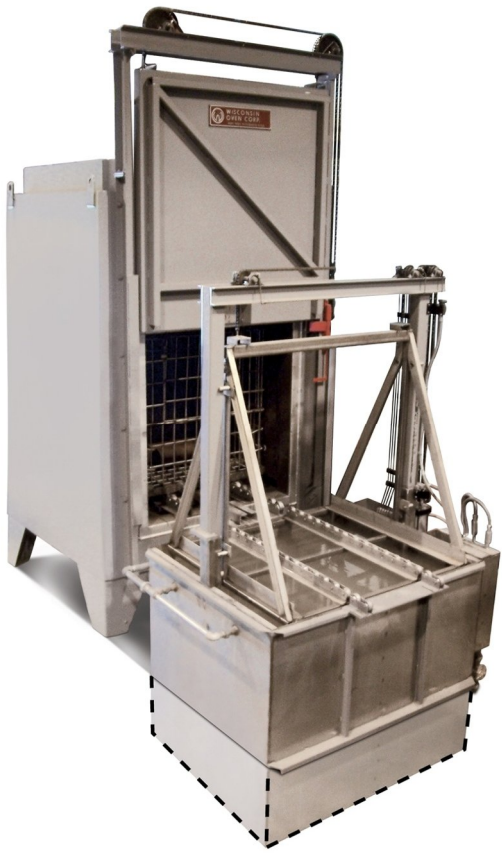


Horizontal Quench Furnace



Horizontal Quench Furnace shown with optional pitted tank.

Application:

The horizontal quench furnace is used for heat treating. It can be used for loads up to 6,000 lbs and has a quench time of 10-15 seconds. The horizontal quench furnace has maximum temperature ratings up to 1,400° F and provides excellent temperature uniformity.

Description:

The horizontal quench furnace is a cost-effective alternative to our drop bottom furnaces and is available in ten (10) standard sizes. The equipment utilizes an electrically operated pusher/extractor mechanism that provides a quench time of 10-15 seconds, which combined with the load capacity of up to 6,000 lbs makes it ideal for a wide range of applications.

A high capacity recirculation blower, along with fully enclosed & pressurized supply ducts, delivers heated air with a combination airflow arrangement. This type of uniform airflow ensures even heat distribution throughout the work chamber and excellent temperature uniformity.

All units are fully factory tested, adjusted and certified by a 154 point quality inspection PRIOR to shipment, which results in lower installation and start-up costs. Optional PLC control, data acquisition, trending, and reporting are also available.

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)

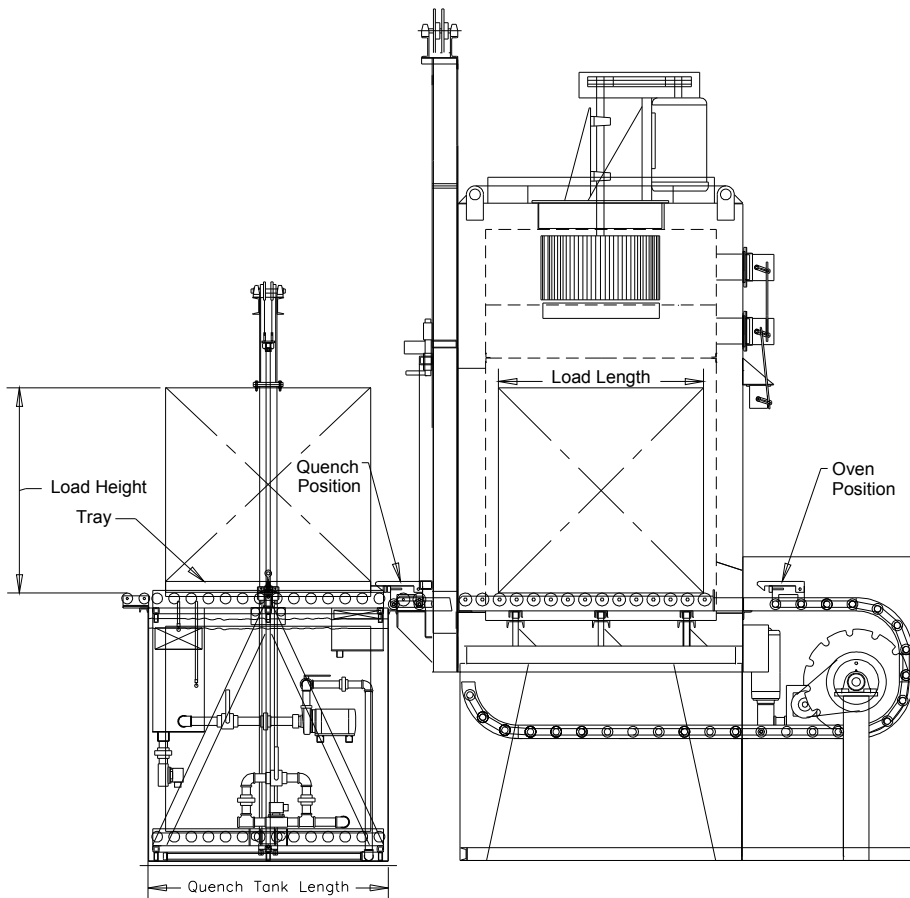


Wisconsin Oven Corporation

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Horizontal Quench Furnace



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.

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

Model	Basket Size (Ft)			Heat Capacity & Recirculation Blower Ratings		
	Width	Height	Length	KW	Burner Rating BTU's	Recirculation Blower
1,250° F						
SDB-436	2	1.5	3	36	185,000	2,800 CFM @ 3 HP
SDB-446	2	2	3	36	185,000	2,800 CFM @ 3 HP
SDB-448	2	2	4	36	185,000	2,800 CFM @ 3 HP
SDB-558	2.5	2.5	4	60	300,000	4,600 CFM @ 7.5 HP
SDB-658	3	2.5	4	60	300,000	4,600 CFM @ 7.5 HP
SDB-668	3	3	4	60	300,000	4,600 CFM @ 7.5 HP
SDB-6612	3	3	6	96	450,000	7,000 CFM @ 10 HP
SDB-8612	4	3	6	96	450,000	7,000 CFM @ 10 HP
SDB-888	4	4	4	96	450,000	7,000 CFM @ 10 HP
SDB-101010	5	5	5	120	650,000	7,000 CFM @ 10 HP



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