



WISCONSIN OVEN

ATMOSPHERE BATCH OVENS

Heat Treatment with Reduced Surface Oxidation

Premium Quality and High Performance:

- **Reduced oxygen level** using a nitrogen cover gas
- **Inert atmosphere processing** of materials including steel, aluminum and polymers
- **Temperatures** to 1,250° F
- **Standard sizes** to match most heat treat lines
- **Water cooling technology** cools the load faster than air-cooled designs
- **O₂ sensor with display and nitrogen control** to minimize oxygen level while avoiding nitrogen overuse
- **High capacity recirculation blower** for outstanding uniformity and heating rates
- **Wide variety of designs** to accommodate different loading methods (manual and powered)
- **Built to Last!** Backed by our Exclusive and Unprecedented 3-Year WOW™ Warranty
- **Factory tested PRIOR to shipment** (with nitrogen) to reduce installation and start-up times
- **Additional sizes and options** available upon request



Shown with optional powered load table



DataSense
TECHNOLOGIES

Available with DataSense™ Technologies IoT Based Performance Monitoring System



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Wisconsin Oven is a brand of Thermal Product Solutions, LLC

ABO-10/24

ATMOSPHERE BATCH OVENS

10 Standard Models

Unequaled Standard Features:

- 3 Year WOW™ warranty
- Heavy steel plate exterior, with welded reinforced sheet metal interior
- Electrically heated (indirect gas available on request)
- 1,000° and 1,250° F maximum temperature ratings
- 2,000 pound load capacity (3,600 and 6,000 pound available)
- +/-10° F temperature uniformity (+/-5° available upon request)
- NEMA 12 control panel with HMI touch screen interface
- Digital temperature controller with auto-tune and ramp/soak
- High capacity water-powered cooling system
- Vertical lift door reduces floor space requirements
- Nitrogen control system to minimize oxygen level and nitrogen consumption
- O₂ sensor and humidity monitor for accurate process control
- Fully piped, wired and tested with nitrogen PRIOR to shipment
- Industrial IoT system allows remote diagnostics and monitoring of the equipment health

Optional items:

- AMS2750, CQI-9, or BAC5621
- Powered or manual load tables
- Roller, wheel rail, or skid rail hearths available
- Data acquisition system
- Installation, start-up and training at your facility
- Many other options available upon request



Shown with optional non-powered load table

ABO – Atmosphere Batch Oven Specifications*

Temperature Rating	Model Number	Basket Size Standard (W x H x D)	Overall Width (Includes side-mounted control panel)	Overall Height (Includes roof-mounted equipment)	Overall Depth	CFM	HP	kW	Approximate Weight (lbs)
Maximum 800° F	ABO-446-8E	24" x 24" x 36"	6' 6"	11' 6"	9' 6"	2,800	2	24	5,300
	ABO-668-8E	36" x 36" x 48"	7' 6"	12' 6"	10' 6"	4,600	5	48	6,700
	ABO-6612-8E	36" x 36" x 72"	7' 6"	12' 6"	12' 6"	7,000	7.5	48	7,700
	ABO-888-8E	48" x 48" x 48"	8' 6"	15' 0"	10' 6"	7,000	7.5	48	8,400
	ABO-101010-8E	60" x 60" x 60"	9' 6"	17' 0"	11' 6"	7,000	7.5	60	10,900
Maximum 1,250° F	ABO-446-12E	24" x 24" x 36"	6' 6"	11' 6"	9' 6"	3,600	5	36	5,500
	ABO-668-12E	36" x 36" x 48"	7' 6"	12' 6"	10' 6"	7,000	10	60	6,900
	ABO-6612-12E	36" x 36" x 72"	7' 6"	12' 6"	12' 6"	10,000	15	96	7,900
	ABO-888-12E	48" x 48" x 48"	8' 6"	15' 0"	10' 6"	10,000	15	96	8,600
	ABO-101010-12E	60" x 60" x 60"	9' 6"	17' 0"	11' 6"	15,000	15	120	11,100

*Height based on a 36" pass height above factory floor. Dimensions are approximate.