

Gruenberg Industrial Ovens

Top Loading Ovens

Gruenberg Oven Company designs and manufactures a complete line of standard as well as custom top loading ovens to accommodate a variety of thermal processing applications. Top loading ovens are designed to reach temperatures of 1000° Fahrenheit and are ideally suited for core hardening, preheating, component testing, stress relieving, heat treating, and tempering.

Features

- Heavy-duty, fully-welded structural steel frame
- **CHIL** construction ensures minimal heat transfer from oven chamber to the exterior
- Side and back walls are removable for easy clean-up and maintenance
- Lid is constructed using a structural steel frame to ensure sealing integrity
- Insulation is moisture-proof, non-combustable, non-settling, and asbestos-free
- Energy-efficient, Incoloy® sheathed, seamless tubular heaters are standard
- Heating elements are suspended in the plenum adjacent to, but separate from the process chamber so there is no radiant influence on the work in process



Gruenberg

Dimensions and Specifications

Capacity ft ³	Maximum Temperature	Airflow	Interior Dimensions W" x D" x H"	Exterior Dimensions W" x D" x H"	Circulation CFM	Heater Wattage (KW)	Insulation Thickness (inches)	Shipping Weight	Model Number
450°F Maximum Temperature									
4.6	450	Horizontal	20 x 20 x 20	44 x 36 x 29	800	3	4 low	300	TL45C46
7	450	Horizontal	30 x 20 x 20	54 x 36 x 29	800	3	4 low	350	TL45C70
8	450	Horizontal	24 x 24 x 24	48 x 40 x 33	800	3	4 low	375	TL45C80
10	450	Horizontal	30 x 24 x 24	54 x 40 x 33	800	6	4 low	400	TL45C100
12.5	450	Horizontal	30 x 24 x 30	54 x 40 x 39	1150	6	4 low	500	TL45C125
15.6	450	Horizontal	30 x 30 x 30	54 x 46 x 39	1150	9	4 low	600	TL45C156
27	450	Horizontal	36 x 36 x 36	60 x 52 x 45	1900	12	4 low	900	TL45C270
650°F Maximum Temperature									
4.6	650	Horizontal	20 x 20 x 20	44 x 36 x 29	800	6	4 low	325	TL65C46
7	650	Horizontal	30 x 20 x 20	54 x 36 x 29	800	6	4 low	375	TL65C70
8	650	Horizontal	24 x 24 x 24	48 x 40 x 33	800	6	4 low	400	TL65C80
10	650	Horizontal	30 x 24 x 24	54 x 40 x 33	800	9	4 low	425	TL65C100
12.5	650	Horizontal	30 x 24 x 30	54 x 40 x 39	1150	9	4 low	550	TL65C125
15.6	650	Horizontal	30 x 30 x 30	54 x 46 x 39	1150	12	4 low	650	TL65C156
27	650	Horizontal	36 x 36 x 36	60 x 52 x 45	1900	15	4 low	1000	TL65C270
800°F Maximum Temperature									
4.6	800	Horizontal	20 x 20 x 20	44 x 36 x 29	600	9	3 low, 1 high	400	TL80C46
7	800	Horizontal	30 x 20 x 20	54 x 36 x 29	600	9	3 low, 1 high	450	TL80C70
8	800	Horizontal	24 x 24 x 24	48 x 40 x 33	700	9	3 low, 1 high	475	TL80C80
10	800	Horizontal	30 x 24 x 24	54 x 40 x 33	850	12	3 low, 1 high	525	TL80C100
12.5	800	Horizontal	30 x 24 x 30	54 x 40 x 39	1000	12	3 low, 1 high	650	TL80C125
15.6	800	Horizontal	30 x 30 x 30	54 x 46 x 39	1000	15	3 low, 1 high	750	TL80C156
27	800	Horizontal	36 x 36 x 36	60 x 52 x 45	1500	18	3 low, 1 high	1150	TL80C270
1000°F Maximum Temperature									
4.6	1000	Horizontal	20 x 20 x 20	44 x 36 x 29	700	12	3 low, 2 high	500	TL100C46
7	1000	Horizontal	30 x 20 x 20	54 x 36 x 29	700	12	3 low, 2 high	550	TL100C70
8	1000	Horizontal	24 x 24 x 24	48 x 40 x 33	850	12	3 low, 2 high	575	TL100C80
10	1000	Horizontal	30 x 24 x 24	54 x 40 x 33	1000	15	3 low, 2 high	600	TL100C100
12.5	1000	Horizontal	30 x 24 x 30	54 x 40 x 39	1000	15	3 low, 2 high	750	TL100C125
15.6	1000	Horizontal	30 x 30 x 30	54 x 46 x 39	1500	18	3 low, 2 high	900	TL100C156
27	1000	Horizontal	36 x 36 x 36	60 x 52 x 45	2500	24	3 low, 2 high	1300	TL100C270

OVEN OPTIONS

- Continuously-welded Liners
- Controllers:
 - Multi-segment Programmable
 - A Variety of Other Controllers are available
- Lid:
 - Automatic Locks
 - Lid Shut-off Switch
 - Viewing Window
- Exhaust Blower
- Forced Cooling:
 - Ambient Air Cooling
 - CO₂ Cooling System
 - Mechanical Refrigeration
- Filtration of Make-up Air:
 - HEPA Filters
 - Inlet Air Filters
- Interior Lighting
- Nitrogen Purge
- Ports
- Recorders
 - Single-pen Recorder
 - Multiple Point Recorder
 - A Variety of Other Recorders are available
- SCR Power Control
- Solvent Venting Package
- Stainless Steel Interior
- Timers:
 - 24-hour Clock
 - Process Timer
 - Purge Timer



Thermal Product Solutions

A Unit of **SPX** Corporation