

Gruenberg Industrial Ovens

Cabinet Ovens

Gruenberg Oven Company designs and manufactures a complete line of standard as well as custom cabinet ovens to accommodate a variety of thermal processing applications. Cabinet ovens are designed to reach temperatures up to 1200° Fahrenheit and are ideally suited for annealing, aging, core hardening, drying, preheating, curing, and component testing. And, with additional options, they can also be used for applications such as epoxy, plastic, and rubber curing; paint and varnish baking; textile drying; and sterilizing.

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
- Doors are constructed using a structural steel frame to ensure sealing integrity
- Insulation is moisture-proof, non-combustible, 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

Standard Cabinet Ovens

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									
12	450	Horizontal	24 x 24 x 36	54 x 38 x 81	600	9	4-low	1000	C45H120
12	450	Vertical	24 x 24 x 36	54 x 38 x 81	600	9	4-low	1000	C45V120
24	450	Horizontal	24 x 36 x 48	54 x 50 x 93	1200	12	4-low	1200	C45H240
24	450	Vertical	24 x 36 x 48	54 x 50 x 93	1200	12	4-low	1200	C45V240
31	450	Horizontal	30 x 30 x 60	60 x 44 x 105	1550	15	4-low	1350	C45H310
31	450	Vertical	30 x 30 x 60	60 x 44 x 105	1550	15	4-low	1350	C45V310
36	450	Horizontal	36 x 36 x 48	66 x 50 x 93	1800	18	4-low	1550	C45H360
36	450	Vertical	36 x 36 x 48	66 x 50 x 93	1800	18	4-low	1550	C45V360
45	450	Horizontal	36 x 36 x 60	66 x 50 x 105	2250	22.5	4-low	1900	C45H450
45	450	Vertical	36 x 36 x 60	66 x 50 x 105	2250	22.5	4-low	1900	C45V450
54	450	Horizontal	36 x 36 x 72	66 x 50 x 118	2700	24	4-low	2200	C45H540
54	450	Vertical	36 x 36 x 72	66 x 50 x 118	2700	24	4-low	2200	C45V540
72	450	Horizontal	36 x 48 x 72	66 x 62 x 118	3600	27	4-low	2700	C45H720
72	450	Vertical	36 x 48 x 72	66 x 62 x 118	3600	27	4-low	2700	C45V720
96	450	Horizontal	48 x 48 x 72	78 x 62 x 120	4800	30	4-low	3000	C45H960
96	450	Vertical	48 x 48 x 72	78 x 62 x 120	4800	30	4-low	3000	C45V960
650°F Maximum Temperature									
12	650	Horizontal	24 x 24 x 36	54 x 38 x 81	900	12	4-low	1100	C65H120
12	650	Vertical	24 x 24 x 36	54 x 38 x 81	900	12	4-low	1100	C65V120
24	650	Horizontal	24 x 36 x 48	54 x 50 x 93	1500	18	4-low	1300	C65H240
24	650	Vertical	24 x 36 x 48	54 x 50 x 93	1500	18	4-low	1300	C65V240
31	650	Horizontal	30 x 30 x 60	60 x 44 x 105	1800	22.5	4-low	1450	C65H310
31	650	Vertical	30 x 30 x 60	60 x 44 x 105	1800	22.5	4-low	1450	C65V310
36	650	Horizontal	36 x 36 x 48	66 x 50 x 93	2400	24	4-low	1650	C65H360
36	650	Vertical	36 x 36 x 48	66 x 50 x 93	2400	24	4-low	1650	C65V360
45	650	Horizontal	36 x 36 x 60	66 x 50 x 105	3000	27	4-low	2000	C65H450
45	650	Vertical	36 x 36 x 60	66 x 50 x 105	3000	27	4-low	2000	C65V450
54	650	Horizontal	36 x 36 x 72	66 x 50 x 118	3250	30	4 low	2300	C65H540
54	650	Vertical	36 x 36 x 72	66 x 50 x 118	3250	30	4 low	2300	C65V540
72	650	Horizontal	36 x 48 x 72	66 x 62 x 118	4200	36	4 low	2800	C65H720
72	650	Vertical	36 x 48 x 72	66 x 62 x 118	4200	36	4 low	2800	C65V720
96	650	Horizontal	48 x 48 x 72	78 x 62 x 120	5500	36	4 low	3100	C65H960
96	650	Vertical	48 x 48 x 72	78 x 62 x 120	5500	36	4 low	3100	C65V960
800°F Maximum Temperature									
12	800	Horizontal	24 x 24 x 36	54 x 38 x 81	1000	15	3-low, 1-high	1250	C80H120
12	800	Vertical	24 x 24 x 36	54 x 38 x 81	1000	15	3-low, 1-high	1250	C80V120
24	800	Horizontal	24 x 36 x 48	54 x 50 x 93	1600	22.5	3-low, 1-high	1450	C80H240
24	800	Vertical	24 x 36 x 48	54 x 50 x 93	1600	22.5	3-low, 1-high	1450	C80V240
31	800	Horizontal	30 x 30 x 60	60 x 44 x 105	2100	24	3-low, 1-high	1650	C80H310
31	800	Vertical	30 x 30 x 60	60 x 44 x 105	2100	24	3-low, 1-high	1650	C80V310
36	800	Horizontal	36 x 36 x 48	66 x 50 x 93	2500	27	3-low, 1-high	1800	C80H360
36	800	Vertical	36 x 36 x 48	66 x 50 x 93	2500	27	3-low, 1-high	1800	C80V360

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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
800°F Maximum Temperature (Continued)									
45	800	Horizontal	36 x 36 x 60	66 x 50 x 105	3100	30	3-low, 1-high	2150	C80H450
45	800	Vertical	36 x 36 x 60	66 x 50 x 105	3100	30	3-low, 1-high	2150	C80V450
54	800	Horizontal	36 x 36 x 72	66 x 50 x 118	3400	36	3-low, 1-high	2450	C80H540
54	800	Vertical	36 x 36 x 72	66 x 50 x 118	3400	36	3-low, 1-high	2450	C80V540
72	800	Horizontal	36 x 48 x 72	66 x 62 x 118	4300	36	3-low, 1-high	2950	C80H720
72	800	Vertical	36 x 48 x 72	66 x 62 x 118	4300	36	3-low, 1-high	2950	C80V720
96	800	Horizontal	48 x 48 x 72	78 x 62 x 120	5600	45	3-low, 1-high	3250	C80H960
96	800	Vertical	48 x 48 x 72	78 x 62 x 120	5600	45	3-low, 1-high	3250	C80V960
1000°F Maximum Temperature									
12	1000	Horizontal	24 x 24 x 36	56 x 40 x 83	1200	18	3-low, 2-high	1400	C100H120
12	1000	Vertical	24 x 24 x 36	56 x 40 x 83	1200	18	3-low, 2-high	1400	C100V120
24	1000	Horizontal	24 x 36 x 48	56 x 52 x 95	1800	24	3-low, 2-high	1600	C100H240
24	1000	Vertical	24 x 36 x 48	56 x 52 x 95	1800	24	3-low, 2-high	1600	C100V240
31	1000	Horizontal	30 x 30 x 60	62 x 46 x 107	2300	27	3-low, 2-high	1750	C100H310
31	1000	Vertical	30 x 30 x 60	62 x 46 x 107	2300	27	3-low, 2-high	1750	C100V310
36	1000	Horizontal	36 x 36 x 48	68 x 52 x 95	2700	30	3-low, 2-high	1950	C100H360
36	1000	Vertical	36 x 36 x 48	68 x 52 x 95	2700	30	3-low, 2-high	1950	C100V360
45	1000	Horizontal	36 x 36 x 60	68 x 52 x 107	3200	33	3-low, 2-high	2300	C100H450
45	1000	Vertical	37 x 36 x 60	68 x 52 x 107	3200	33	3-low, 2-high	2300	C100V450
54	1000	Horizontal	36 x 36 x 72	68 x 52 x 120	3600	36	3-low, 2-high	2600	C100H540
54	1000	Vertical	36 x 36 x 72	68 x 52 x 120	3600	36	3-low, 2-high	2600	C100V540
72	1000	Horizontal	36 x 48 x 72	68 x 64 x 120	4500	45	3-low, 2-high	3100	C100H720
72	1000	Vertical	36 x 48 x 72	68 x 64 x 120	4500	45	3-low, 2-high	3100	C100V720
96	1000	Horizontal	48 x 48 x 72	80 x 64 x 122	5800	45	3-low, 2-high	3400	C100H960
96	1000	Vertical	48 x 48 x 72	80 x 64 x 122	5800	45	3-low, 2-high	3400	C100V960
1200°F Maximum Temperature									
12	1200	Horizontal	24 x 24 x 36	58 x 42 x 85	1500	22.5	4-low, 2-high	1600	C120H120
12	1200	Vertical	24 x 24 x 36	58 x 42 x 85	1500	22.5	4-low, 2-high	1600	C120V120
24	1200	Horizontal	24 x 36 x 48	58 x 54 x 97	2100	27	4-low, 2-high	1800	C120H240
24	1200	Vertical	24 x 36 x 48	58 x 54 x 97	2100	27	4-low, 2-high	1800	C120V240
31	1200	Horizontal	30 x 30 x 60	64 x 48 x 109	2600	30	4-low, 2-high	1950	C120H310
31	1200	Vertical	30 x 30 x 60	64 x 48 x 109	2600	30	4-low, 2-high	1950	C120V310
36	1200	Horizontal	36 x 36 x 48	70 x 54 x 97	3000	33	4-low, 2-high	2150	C120H360
36	1200	Vertical	36 x 36 x 48	70 x 54 x 97	3000	33	4-low, 2-high	2150	C120V360
45	1200	Horizontal	36 x 36 x 60	70 x 54 x 109	3600	36	4-low, 2-high	2500	C120H450
45	1200	Vertical	36 x 36 x 60	70 x 54 x 109	3600	36	4-low, 2-high	2500	C120V450
54	1200	Horizontal	36 x 36 x 72	70 x 54 x 122	4000	45	4-low, 2-high	2800	C120H540
54	1200	Vertical	36 x 36 x 72	70 x 54 x 122	4000	45	4-low, 2-high	2800	C120V540
72	1200	Horizontal	36 x 48 x 72	70 x 66 x 122	4800	45	4-low, 2-high	3300	C120H720
72	1200	Vertical	36 x 48 x 72	70 x 66 x 122	4800	45	4-low, 2-high	3300	C120V720
96	1200	Horizontal	48 x 48 x 72	82 x 66 x 124	6200	48	4-low, 2-high	3600	C120H960
96	1200	Vertical	48 x 48 x 72	82 x 66 x 124	6200	48	4-low, 2-high	3600	C120V960

Economy Cabinet Ovens

DIMENSIONS AND SPECIFICATIONS



Left: 24 ft³ economy cabinet oven with vertical airflow, optional recorder, and optional stainless steel exterior.



Right: 46.8 ft³ economy cabinet oven with horizontal airflow

Capacity ft ³	Maximum Temperature	Airflow	Interior Dimensions W" x D" x H"	Exterior Dimensions W" x D" x H"	Circulation CFM@70°F	Heater Wattage (KW)	Insulation Thickness (inches)	Shipping Weight	Model Number
24	400	Vertical	30 x 30 x 45	36 x 40.5 x 77	1150	9	3	1500	CG45V240
24	600	Vertical	30 x 30 x 45	36 x 40.5 x 77	1150	12	3	1500	CG65V240
46.8	400	Horizontal	50 x 30 x 54	66 x 38 x 74.5	1100	7.5	4	2000	CS40H47
46.8	600	Horizontal	50 x 30 x 54	66 x 38 x 74.5	1100	12	4	2000	CS60H47
58.3	400	Horizontal	56 x 30 x 60	72 x 38 x 81	1100	9	4	2500	CS40H58
58.3	600	Horizontal	56 x 30 x 60	72 x 38 x 81	1100	15	4	2500	CS60H58

CABINET OVEN OPTIONS

- Continuously-welded Liners
- Controllers:
 - Multi-segment Programmable
 - A Variety of Controllers are available
- Doors:
 - Automatic Door Locks
 - Door 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
- Gas System
- Interior Lighting
- Nitrogen Purge
- Ports
- Recorders
 - Single-pen Recorder
 - Multiple Point Recorder
 - A Variety of Recorders are available
- SCR Power Control
- Shelving:
 - Additional Shelving
 - Modified Shelving
- Solvent Venting Package
- Stainless Steel Interior
- Timers:
 - 24-hour Clock
 - Process Timer
 - Purge Timer
- Vertical Lift Doors