

Combitherm® CTC20-10G

Gas Boiler-free

ALTO-SHAAM

Combining multiple cooking functions into a single appliance, Combitherm® ovens provide endless versatility, reliability and unmatched performance. An all-in-one solution for efficient and consistent food production. Combitherm ovens do the work of a convection oven, kettle, steamer, fryer, smoker and more. Execute every dish, no matter how simple or complex, faster than ever with flawless precision and consistency.

Standard features

- Simple and intuitive push button control that commands all oven functions with easily identifiable icons
- LED display indicating cooking mode, temperature settings, time remaining, and various instructions
- LED illuminated door handle designed for the needs of the busy kitchen, and provides visual notification of the oven status
- CoolTouch3™ triple panel glass door keeps the heat inside, while keeping the glass cool to the touch and providing 15% greater thermal retention to improve performance and efficiency
- Three cooking modes—steam, convection, and combination
- Front-accessible and retractable rinse hose
- Two different fan speeds
- One fully automated cleaning cycle



CTC20-10G



CAPACITY

20 Twenty full-size or GN 1/1 pans; twenty half-size sheet pans; one row deep

Roll-in pan cart with twenty non-tilt support rails; 13" (330mm) horizontal width between rails, 2-9/16" (65mm) vertical spacing between rails

240 lb (109kg) product maximum

150 quarts (190 liters) volume maximum

Ten (10) wire shelves included. Additional wire shelves required for maximum capacity.

Configurations (select one)

Door swing

- Right hinged
- Recessed door, optional; increases oven width by 5" (127mm)

Electrical

- 120V 1ph 208-240V 3ph
- 380-415V 3ph

Gas type

- Natural Propane

Accessories (select all that apply)

- CombiLatch™
- Extended one-year warranty

Probe choices

- Removable, single-point, quick-connect core temperature probe, optional
- Removable, single-point, quick-connect sous vide temperature probe, optional

Security devices for correctional facility use

- Optional base package (not available with recessed door): includes tamper-proof screw package, excludes temperature probe
- Anti-entrapment device, optional
- Control panel security cover, optional
- Hasp door lock (padlock not included), optional
- Removable, single-point, quick-connect core temperature probe, optional

Installation options (select one)

- Alto-Shaam Combination Factory Authorized Installation Program - available in the U.S. and Canada only
- Installation Start-Up Check - available through an Alto-Shaam authorized service agency

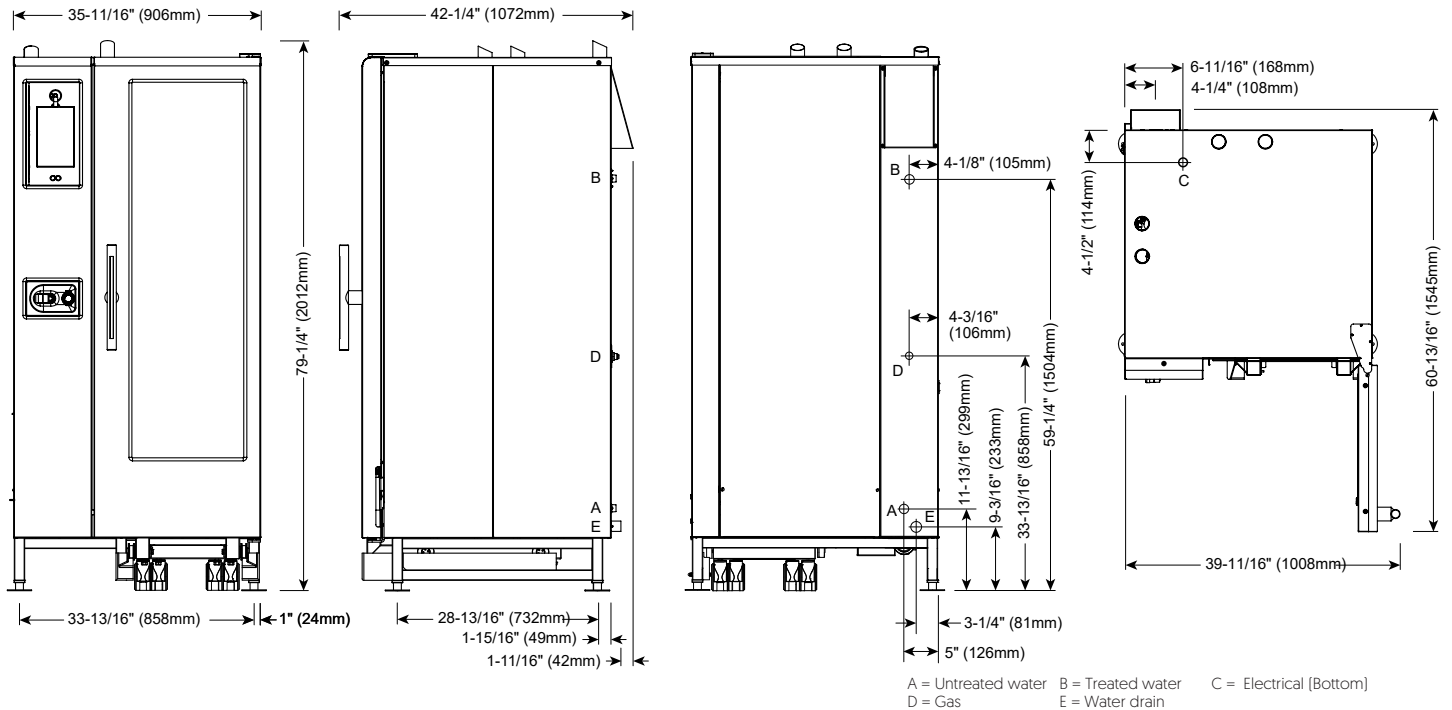


This oven complies with UL 710B, section 17 COA #5760

Combitherm® CTC20-10G



Specification



Model
CTC20-10G

Exterior [H x W x D]
79-1/4" x 35-11/16" x 42-1/4" [2012mm x 906mm x 1072mm]
Exterior with recessed door [H x W x D]
79-1/4" x 40-11/16" x 42-1/4" [2012mm x 1033mm x 1072mm]

Interior [H x W x D]
60-7/16" x 16-1/4" x 28-1/16" [1535mm x 411mm x 712mm]
Net Weight
905 lb [411 kg]

Ship Dimensions [L x W x H]*
CTC20-10G 56" x 45" x 87" [1422mm x 1143mm x 2210mm]

Ship Weight*
1175 lb [533 kg]

*Domestic ground shipping information. Contact factory for export weight and dimensions.



Top: 20" [508mm]
 Left: 0" [0mm]
 Right: 0" [0mm] Non-combustible surfaces
 2" [51mm] combustible surfaces
 Bottom: 5-1/8" [130mm]
 Back: 4" [102mm]
 4-5/16" [109mm] optional plumbing kit



- Oven must be installed level.
- Water supply shut-off valve and back-flow preventer when required by local code.
- Hood installation is required.
- Drain must not be located directly underneath the appliance.



Heat of rejection

CTC20-10G	Heat Gain qs, BTU/hr	Heat Gain qs, kW	Heat Gain qs, Mj/hr
	896	0.26	112.9



Noise emissions

A maximum 67 dBA was measured at 3.3 ft [1 m] from unit as tested on CTP10-20E.



	CTC20-10G	V	Ph	Hz	Awg (mm ²)	A	Breaker	kW	Connection	Certification
†	120V*	120	1	60	12 [3.31]	13.0	20	1.7	L1, L2/N, G	
†	208-240V	208	3	50/60	14 [2.08]	9.6	15	2.0	L1, L2, L3, G	
		240	3	50/60	14 [2.08]	8.4	15	2.0	L1, L2, L3, G	
	380-415V	380	3	50/60	14 [2.08]	9.2	15	2.0	L1, L2, L3, N, G	
		415	3	50/60	14 [2.08]	8.4	15	2.0	L1, L2, L3, N, G	

† Per UL requirements, must be permanently connected to electrical supply source

*Ground fault or residual current protection device must accommodate a leakage current of 20mA.

- Electrical connections must meet all applicable federal, state, and local codes.
- For use on individual branch circuit only.
- Ovens are not supplied with an electrical cord or plug.



Water requirements (per oven)

- Two cold water inlets - drinking quality
- One treated water inlet: 3/4" NPT connection. Line pressure 30 psi minimum dynamic and 90 psi maximum static [200-600 kPa] at a minimum flow rate of 0.26 gpm [1 L/min].
- One untreated water inlet: 3/4" NPT connection. Line pressure 30 psi minimum dynamic and 90 psi maximum static [200-600 kPa] at a minimum flow rate of 2.64 gpm [10 L/min]. Water drain: 1-1/2" [40mm] connection with a vertical vent to extend above the exhaust vent. Materials must withstand temperatures up to 200°F [93°C].

Water Quality Standards

It is the sole responsibility of the owner/operator/purchaser of this equipment to verify that the incoming water supply is comprehensively tested and, if required, a means of "water treatment" provided that would meet compliance requirements with the published water quality standards shown below. Non-compliance with these minimum standards will potentially damage this equipment and/or components and void the original equipment manufacturer's warranty. Alto-Shaam recommends using the Alto-Shaam Reverse Osmosis System to properly treat your water.

Inlet Water Requirements		
Contaminant	Treated Water	Untreated Water
Free Chlorine	Less than 0.1 ppm (mg/L)	Less than 0.1 ppm (mg/L)
Hardness	30-70 ppm	30-70 ppm
Chloride	Less than 30 ppm (mg/L)	Less than 30 ppm (mg/L)
pH	7.0 to 8.5	7.0 to 8.5
Silica	Less than 12 ppm (mg/L)	Less than 12 ppm (mg/L)
Total Dissolved Solids (tds)	50-125 ppm	50-360 ppm



Clearance requirements for water filtration system

Do not install a water filtration system behind unit.



Gas Requirements (gas type must be specified on order)
Hook-up: 3/4" NPT

UL Marked Appliances	Maximum Input BTU/h	Minimum Input BTU/h	Maximum Inlet Pressure Inches WC	Minimum Inlet Pressure Inches WC	Maximum Fuel Consumption*	
					CFH	GPH
Natural Gas	140,000	107,000	14.0	5.5	133.3	N/A
Propane				9.0	56.0	1.5

*Assumes an average heating value for natural gas to be 1050 BTU/SCF and a specific gravity of 0.60. The assumed value for propane gas is 2,500 BTU/SCF, and a specific gravity of 1.53.

AGA Marked Appliances	Maximum Input MJ/h	Minimum Input MJ/h	Maximum Inlet Pressure kPa	Minimum Inlet Pressure kPa	Maximum Fuel Consumption	
					m³/h	L/h
Natural Gas	147.7	112.9	3.48	1.13	3.9	N/A
Propane				2.75	1.5	5.8

CE Marked Appliances	Maximum Input		Minimum Input		Nominal Gas Pressure mbar	Maximum Gas Pressure mbar	Maximum Fuel Consumption m³
	kWh (Hs)	kWh (Hi)	kWh (Hs)	kWh (Hi)			
2E [G20]	41.1	37.0	31.4	28.3	20	50	3.9
2LL [G25]					20		4.6
3P [G31]	40.2	37.0	31.4	28.9	37		1.5
3B/P [G30]					29		1.5

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