

**COMBITHERM®**  
**CTC20-20G**  
**GAS BOILER-FREE**



**CAPACITY**

- Twenty (20) full-size sheet pans, forty (40) full-size hotel or GN 1/1 pans; two rows deep
- Roll-in pan cart with twenty (20) non-tilt support rails; 20" (508mm) horizontal width between rails, 2-9/16" (65mm) vertical spacing between rails

**CONSTRUCTION**

- Stainless steel exterior, bright annealed interior
- Seamless welded interior stainless steel cavity
- CoolTouch3™ triple pane window door with hinged inner glass prevents additional heat loss and increases cooking efficiency
- Door is hinged right with a 130° swing
- High efficiency LED lighting integrated in the door
- Hands free positive catch door handle with lighted visual alerts [PATENT PENDING]
- PROrinse™ ergonomic retractable hand shower includes a safety shutoff interlock that shuts off water to the hose [PATENT PENDING] and a built-in back flow preventer
- SafeVent™ provides automatic steam venting at the end of the cooking cycle [PATENT #7,282,674]
- Zero Clearance system maximizes floor space utilization with features that carefully protect temperature sensitive components and controls [PATENT PENDING]
- Adjustable stainless steel flanged legs provide stability
- Roll-in pan cart includes mounted drip tray and four (4) swivel casters, including two (2) with brakes
- High efficiency modulating gas burner maximizes the residence time of flue gases [PATENT PENDING]

**CT CLASSIC™ STANDARD FEATURES**

- Oven with state-of-the-art innovative solutions that meld together perfectly to deliver high performance standards, consistent food quality, and production efficiency.
- Classic control provides a simple and intuitive push button operation that commands all the oven functions with icons that are easy to identify.

- LED display indicates cooking mode, temperature settings, time remaining, and various instructions.
- Three cooking modes:  
 Steam - 85°F to 250°F (30°C to 120°C)  
 Convection - 85°F to 575°F (30°C to 300°C)  
 Combination - 212°F to 575°F (100°C to 300°C)
- Cook time is displayed in hours : minutes.

- Two different fan speeds expands cooking capabilities for products affected by a high velocity of air movement.
- Cool down feature provides the operator with the ability to lower the temperature of the oven compartment at an accelerated pace.
- CombiClean® fully automated cleaning with one heavy-duty cleaning cycle.

**SHORT FORM SPEC**

Provide Alto-Shaam Combitherm® CT Classic™ floor-standing model CTC20-20G boiler-free gas CombiOven designed with EcoSmart® technology for reduced energy and water consumption. Includes operational modes for steam, convection, and a combination of steam and convection heat. Oven is to be constructed of 18 gauge stainless steel interior cavity. Oven includes an attached retractable hand shower spray hose with safety shutoff interlock system and a

back flow preventer. Classic control includes a cool-down function, automatic cleaning function, fan with two (2) fan speeds. Oven includes standard right-hand door hinging with integrated preheat strip and six (6) adjustable stainless steel seismic legs. Roll-in pan cart accommodates up to twenty (20) full-size sheet pans, twenty (20) GN 2/1 pans, or forty (40) full-size hotel pans (GN 1/1), includes twenty (20) non-tilt support rails and ten (10) stainless steel shelves.

**FACTORY INSTALLED OPTIONS**

Electrical Choices

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

Gas Type

- Natural       Propane

Door Swing

- Right-hand Door Hinging, standard
- Recessed Door, optional; increases oven width by 5" (127mm), slides out of the way for safety and frees up aisle space

- Extended One-year Warranty

Installation Options (CHOOSE ONLY ONE)

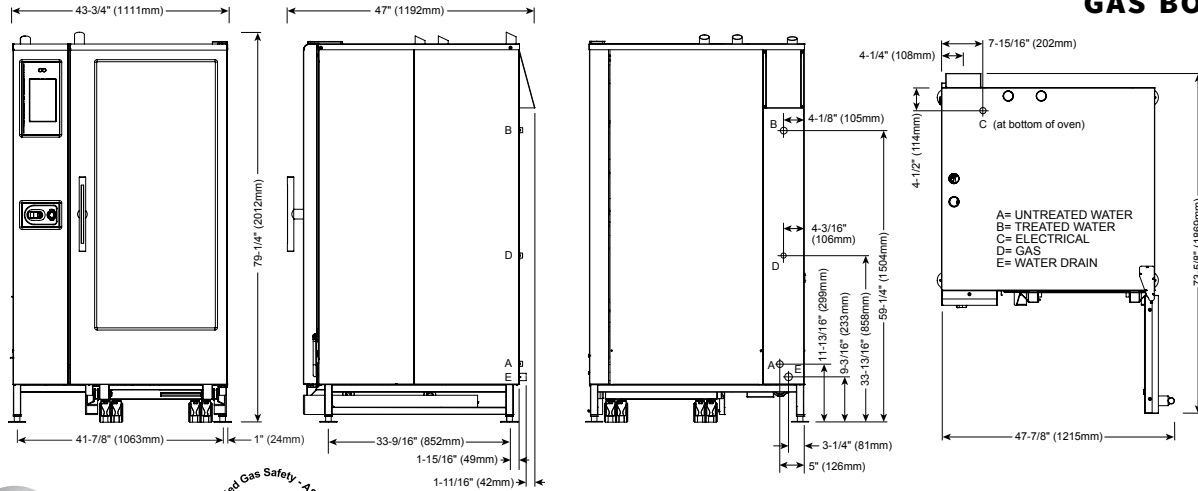
- Alto-Shaam Combitherm Factory Authorized Installation Program - AVAILABLE IN THE U.S. AND CANADA ONLY
- Installation Start-Up Check - AVAILABLE THROUGH AN ALTO-SHAAM AUTHORIZED SERVICE AGENCY

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, secured door glass, and one (1) correctional institution roll-in pan cart, 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



<b>DIMENSIONS: H x W x D</b>	
<b>EXTERIOR:</b>	79-1/4" x 43-3/4" x 47" (2012mm x 1111mm x 1192mm)
<b>EXTERIOR WITH RECESSED DOOR:</b>	79-1/4" x 48-3/4" x 47" (2012mm x 1238mm x 1192mm)
<b>INTERIOR:</b>	60-7/16" x 24-1/4" x 32-3/4" (1535mm x 616mm x 832mm)

WATER REQUIREMENTS	
<b>TWO (2) COLD WATER INLETS - DRINKING QUALITY*</b>	
<b>ONE (1) TREATED WATER INLET:</b> 3/4" NPT connection. Line pressure 30 psi minimum dynamic and 90 psi maximum static (200 to 600 kPa) at a minimum flow rate of 0.80 gpm (3 L/min).	
<b>ONE (1) UNTREATED WATER INLET:</b> 3/4" NPT connection. Line pressure 30 psi minimum dynamic and 90 psi maximum static (200 to 600 kPa) at a minimum flow rate of 2.64 gpm (10 L/min).	
* Both inlets can be from same source. Divide using a manifold. Run one side through treatment device before running to oven. Must meet line pressure and flow rate specifications for both inlets.	
<b>WATER DRAIN:</b> 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).	
CLEARANCE REQUIREMENTS	
<b>LEFT:</b>	0" (0mm)
<b>RIGHT:</b>	0" (0mm) Non-combustible surfaces
<b>TOP:</b>	20" (508mm) for air movement
<b>BOTTOM:</b>	5-1/8" (130mm) for legs, air aintake
<b>BACK:</b>	4" (102mm)
4-5/16" (109mm) optional plumbing kit	
INSTALLATION REQUIREMENTS	
• Oven must be installed level.	
• Hood installation is required.	
• Water supply shut-off valve and back-flow preventer when required by local code.	

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 OptiPure® [www.optipurewater.com] products to properly treat your water.	
Contaminant	Inlet Water Requirements
Free Chlorine	Less than 0.1 ppm (mg/L)
Hardness	30-70 ppm
Chloride	Less than 30 ppm (mg/L)
pH	7.0 to 8.5
Silica	Less than 12 ppm (mg/L)
Total Dissolved Solids (tds)	Treated line: 50-125 ppm Untreated line: 50-360 ppm

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*		AGA Marked Appliances	Maximum Input MJ/h	Minimum Input MJ/h	Maximum Inlet Pressure kPa	Minimum Inlet Pressure kPa	Maximum Fuel Consumption	
					CFH	GPH						m³/h	L/h
Natural Gas	242,000	177,000	14.0	5.5	230.5	N/A	Natural Gas	255.3	186.7	3.48	1.13	6.8	N/A
Propane				9.0	96.8	2.7	Propane				2.75	2.7	10.1

\*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

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)					20		6.8
2LL (G25)	71.6	64.5	56.0	50.4	20	50	7.9
3P (G31)					37		2.6
3B/P (G30)	70.1	64.5	54.8	50.4	29		2.6

ELECTRICAL - CTP20-20G (DEDICATED CIRCUIT REQUIRED)								
	VOLTAGE	PH	HZ	AWG (mm²)	CONNECTION no cord, no plug	AMPS	BREAKER	kW
↻ ⚡	120	1	60	12 (3.31)	L1, L2/N, G	13.0	20	1.7
↻ ⚡	208 - 240	3	50/60	14 (2.08)	L1, L2, L3, G	9.6 - 8.4	15	2.0
↻ ⚡	380 - 415	3	50/60	14 (2.08)	L1, L2, L3, N, G	9.2 - 8.4	15	2.0

↻ NORTH AMERICA VOLTAGE CHOICE ⚡ GROUND FAULT OR RESIDUAL CURRENT PROTECTION DEVICE MUST ACCOMMODATE A LEAKAGE CURRENT OF 20mA ⚡ INTERNATIONAL VOLTAGE CHOICE ⚡ PER UL REQUIREMENTS, MUST BE PERMANENTLY CONNECTED TO ELECTRICAL SUPPLY SOURCE

WEIGHT	SHIP DIMENSIONS	PAN CAPACITY
NET 1100 lbs (499 kg) est Recessed Door: 1217 lbs (552 kg) est	(L x W x H) 53" x 53" x 87"*	FULL-SIZE: 20" x 12" x 2-1/2" Forty (40) GN 1/1: 530 x 325 x 65mm Forty (40) GN 2/1: 650 x 530 x 65mm Twenty (20)
1250 lbs* (567 kg*) Recessed Door: 1350 lbs* (612 kg)*	(1346 x 1346 x 2210mm)*	Twenty (20)
*DOMESTIC GROUND SHIPPING INFORMATION. CONTACT FACTORY FOR EXPORT WEIGHT AND DIMENSIONS.		**FULL-SIZE SHEET: 18" x 26" x 1" Twenty (20)
		PRODUCT MAXIMUM: 480 lb (218 kg) VOLUME MAXIMUM: 300 quarts (380 liters) **ON WIRE SHELVES ONLY. ADDITIONAL WIRE SHELVES REQUIRED FOR MAXIMUM CAPACITY.