













ecosmart



- EcoSmart design uses less electricity and water than competitive models. Reduced energy setting further minimizes electricity use.
- \bullet Exclusive Gold-n-Brown $^{\text{TM}}$ features gives the operator the ability to achieve the ideal cooking environment for the ideal finish.
- Expandable system to meet your specific requirements.
- Cook with the included product temperature probe (not included as standard on S-control models) or by time.
- Cooks with variable steam, convection heat, or a combination of both to roast, steam, bake, or oven-fry. Cooking speeds are increased by as much as 70% compared to conventional cooking methods.
- CombiClean® feature uses jets of water for fully automated cleaning. Use either commercial-strength CombiClean Tablets or Combitherm Cleaning Liquid Spray.

CombiTouch®

- Intuitive CombiTouch control is fully operable from the touch screen.
- Store up to 250 recipes, each with up to 9 steps. CombiTouch comes standard with more than 100 preprogrammed recipes and photos.
- Six precise and consistent Gold-n-BrownTM browning levels.
- Multi-shelf Timers track cooking time of ten different food items in the
- Advance reversing fan design provides excellent baking results and prevents excessive water and power consumption.

Provide Alto-Shaam Combitherm® floor-standing Model 20 • 20Es electric CombiOven designed with EcoSmart® technology for reduced energy and water usage and include operational modes for steam, convection, and a combination of steam and convection heat. Standard features to include patented automatic steam venting; Gold-n-Brown™ browning function and a self-adjusting, flush-mounted rotary door handle. Oven is to be constructed of 18 gauge stainless steel, include an attached spray hose with backflow preventer, cool-down function, automatic cleaning function, and four (4) adjustable legs. Each oven is to accommodate up to twenty (20) full-size sheet pans or forty (40) full-size hotel pans, include standard right-hand door hinging, and Roll-in pan cart with twenty (20) non-tilt support rails (21-1/8" (537mm) horizontal width between rails, and 2-5/8" (67mm) vertical spacing between rails), ten (10) stainless steel shelves, removable drip tray and cart handle.

Combiliouch® Control:	includes six different browning levels; two-speed reversing fan with coordinated venting system, USB port for data
	access, quick-connect single-point internal product temperature probe in the oven interior.
Deluxe Control:	includes a quick-connect single-point internal product temperature probe in the oven interior and programming
	capability with Rapid-Touch™ operational quick-keys.
Standard Control:	includes a quick-connect single-point internal product temperature probe in the oven interior.
S-Control:	with quick connect single point internal product temporature probe in the even interior as an ention

• Electrical Choices ⇒Specify voltage:

□ 208-240 3ph

□ 440-480 3ph

□ 380-415 3ph

• Door Swing

⇒Specify choice

☐ Right-hand Door Hinging, standard

☐ Recessed Door, optional increases oven width by 4" (102mm)

• Probe

⇒Specify choice

☐ Multi-point, hard-wired temperature probe [5005678] - not available on ovens with S-Control

• Single-point, removable temperature probe included on Touch, Deluxe and Standard controls ☐ S-Control oven [5011570] • Security Devices for correctional facility use.

☐ Base package: excludes temperature probe

⇒Specify additional choices

☐ Anti Entrapment Device [5011081]

☐ Control Panel Security Cover [5012224]

☐ Hasp Door Lock (padlock not included) [5011079]

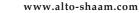
☐ Tamper-Proof Screw Package for oven [5013925]

☐ Seismic Feet Package [5015198]



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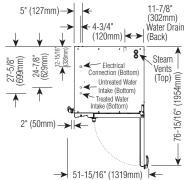
PHONE: 262.251.3800 800.558.8744 U.S.A./CANADA FAX: 262.251.7067 800.329.8744 U.S.A. ONLY

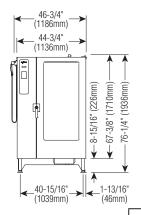




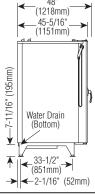
FACTORY INSTALLED







20•20ES SERIES COMBITHERM (1218mm) -45-5/16" (1151mm) COMBIOVEN



DIMENSIONS: H x W x D

EXTERIOR:

76-1/4" x 46-3/4" x 48" (1936mm x 1186mm x 1218mm)

EXTERIOR WITH RECESSED DOOR:

76-1/4" x 50-3/4" x 48" (1936mm x 1288mm x 1218mm)

INTERIOR:

60-1/4" x 26-1/4" x 32-11/16" (1530mm x 667mm x 830mm)

WATER REQUIREMENTS

TWO (2) COLD WATER INLETS - DRINKING QUALITY

ONE (1) TREATED WATER INLET: 3/4" NPT* * Can manifold off of ONE (1) UNTREATED WATER INLET: 3/4" NPT* one 3/4" line.

LINE PRESSURE: 30 to 90 psi 2.8 to 6.2 bar

WATER DRAIN: 1-1/2" connection with a 2" minimum air gap installed as close to the oven as possible. Materials must withstand temperatures up to 200°F (93°C).

CLEARANCE REQUIREMENTS

LEFT 6" (152mm) RECOMMENDED SERVICE ACCESS: 18" (457mm)

20" (508mm) FROM HEAT PRODUCING EQUIPMENT

RIGHT* 4" (102mm) TOP: 20" (508mm) for air movement

BACK* 4" (102mm) **BOTTOM:** 5-1/8" (130mm) FOR LEGS

TOP 20" (508mm) for air movement

BOTTOM 5-1/8" (130mm) FOR LEGS

*6" (152mm) from grease producing equipment

WATER QUALITY MINIMUM STANDARDS

USING A WATER SUPPLY NOT MEETING ALTO-SHAAM'S MINIMUM WATER QUALITY STANDARDS WILL VOID THIS WARRANTY.

It is the responsibility of the purchaser to ensure that incoming water supply

It is the responsibility of the purchaser to ensure that incoming water supply is compliant with the specifications listed through adequate treatment measures. Installation of the CombiGuardTM Water Filtration System is recommended, but this system may not address all water quality issues present.

Contaminant Inlet Water Requirements (untreated water)

Free Chlorine Less than 0.1 ppm (mg/L)
Hardness Less than 3 gpg (52 ppm)
Chloride Less than 30 ppm (mg/L)

pH 7.0 to 8.5

Alkalinity Less than 50 ppm (mg/L)

Silica Less than 12 ppm (mg/L)

Total Dissolved Solids (tds) Less than 60 ppm

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.

ELECTRICAL (DEDICATED CIRCUIT REQUIRED) MODEL VOLTAGE PH ΗZ AMPS kW AWG CORD & PLUG 20 • 20ES Touch 208 - 2403 60 151.2 - 173.9/ph 55.3 - 73.2 AWG 4/0 no cord or plug 3 50/60 83.0 - 101.0/ph 55.3 - 73.2 AWG 2 380 - 415no cord or plug 440 - 4803* 60 71.5 - 87.0/ph 55.3 - 73.2 AWG 2 no cord or plug 20 • 20 ES 54.4 - 72.2 AWG 4/0 208 - 2403 60 151.2 - 173.9/ph no cord or plug 3 50/60 AWG 2 380 - 41583.0 - 101.0/ph 55.4 - 72.2 no cord or plug 3* 60 71.5 - 87.0/ph 54.4 - 72.2 AWG 2 no cord or plug 440 - 480

*ELECTRICAL SERVICE CHARGE APPLIES

WEIGHT			CAPACITY			
OVEN NET	720 lb est	(327 kg)	FULL-SIZE PANS:	20" x 12" x 2-1/2"	Forty (40)	
OVEN SHIP	1047 lb	(475 kg)	GN 1/1:	530 x 325 x 65mm	Forty (40)	
TROLLEY NET	180 lb	(82 kg)	GN 2/1:	650 x 530 x 65mm	Twenty (20)	
TROLLEY SHIP	245 lb	(111 kg)	FULL-SIZE SHEET PANS:*	18" x 26" x 1"	Twenty (20)	
CRATE DIMENSIONS: (L x W x H)			ON WIRE SHELVES ONLY			
OVEN: 54" x 49" x 85" (1374 x 1245 x 2159mm)			480 lb (218 kg) MAXIMUM			
TROLLEY: 35" x 35" x 82" (889 x 889 x 2083mm)			VOLUME MAXIMUM: 300 quarts (380 liters)			











CombiTouch

Deluxe

Standard

S-Control





Steam Mode

- Automatic steaming at 212°F (100°C).
- Quick steaming.

Touch — 213°F to 250°F (101°C to 121°C).

Deluxe, Standard, S-Control — 213°F to 248°F (101°C to 120°C).

• Low temperature steaming for poaching or proofing.

Touch — 85°F and 211°F (29°C and 99°C).

Deluxe, Standard, S-Control — 86°F and 211°F (30°C and 99°C).





Combination Mode

- Combines steam and convection modes for faster production and better moisture retention.
- Improves yield, quality and shelf life.
- Automatic humidity control.

Touch — 212°F to 485°F (100°C to 252°C).

Deluxe, Standard, S-Control — 212°F to 482°F (100°C to 250°C).





Convection Mode

• Cooking, roasting, baking and finishing applications.

Touch — 85°F to 485°F (29°C to 252°C).

Deluxe, Standard, S-Control — 86°F to 482°F (30°C to 250°C).





Retherm Mode

• Bulk food or plated meal reheating with automatic steam injection.

Touch — 245°F to 320°F (118°C to 160°C).

Deluxe, Standard, S-Control — 248°F to 320°F (120°C to 160°C).

• Automatic humidity control.





Gold-n-Brown™

• Gold-n-Brown vents just the right amount of humidity in the oven cavity for perfect browning.

Touch — Six levels of Gold-n-Brown are featured.





• A quick burst of moisture can be added with a touch of a button at any time when cooking in the convection mode.



HACCP Data Access (CombiTouch only)

• Records cooking mode, time and temperature completed within a two week time period. The information is captured in a text format and can be downloaded to a USB device.





OPTIONS & ACCESSORIES	
☐ COMBIGUARD™ BWS BLENDED WATER SYSTEM (INCLUDES 50 GALLON TANK, 1 MEMBR	ANE & 3 FILTERS) FI-28727
☐ COMBIGUARD™ BWS REPLACEMENT FILTER CARTRIDGE AMS-QT	FI-29316
☐ COMBIGUARD™ BWS REPLACEMENT FILTER CARTRIDGE SCLX2-Q	FI-29317
☐ COMBIGUARD™ BWS REPLACEMENT PREFILTER FILTER CARTRIDGE CTO-Q	FI-29318
□ COMBIGUARD™ 20 TRIPLE-GUARD WATER FILTRATION SYSTEM (INCLUDES 1 CART.	
☐ COMBIGUARD™ 20 TRIPLE-GUARD REPLACEMENT FILTER	FI-28744
☐ COMBITHERM CLEANING LIQUID — SPECIALLY FORMULATED FOR COMBITHERM OVENS	
➡ TWELVE (12) CONTAINERS/CASE, 1 QUART (C. 1 LITER) EACH [SPECIAL HANDLING REQUIRED]	CE-24750
☐ COMBICLEAN® TABLETS — SPECIALLY FORMULATED FOR COMBITHERM OVENS	
⇒ 90 packets each container	CE-28892
☐ EXTENDED ONE-YEAR WARRANTY	CONTACT FACTORY
☐ FRY BASKET, 12" x 20" (325mm x 530mm)	BS-26730
☐ GRILLING GRATE , 12" x 20" (325mm x 530mm)	SH-26731
□ POULTRY GREASE TRAY WITH DRAIN: 1-1/2" (38mm) DEEP	4758
□ POULTRY GREASE TRAY WITH DRAIN: 2-3/4" (70mm) DEEP	14475
POULTRY ROASTING RACKS:	
\Box 6 Chicken Capacity, self-trussing — fits in side racks: 12 racks per oven	5014438
☐ 6 CHICKEN CAPACITY — FITS FULL-SIZE PAN: 10 RACKS PER OVEN	SH-23000
□ 8 CHICKEN CAPACITY — FITS FULL-SIZE PAN: 12 RACKS PER OVEN	SH-23619
□ 10 CHICKEN CAPACITY — FITS IN SIDE RACKS: 12 RACKS PER OVEN	SH-22634
☐ PREHEAT SEALING STRIP (TO PREHEAT RIGHT HAND UNITS WITHOUT ROLL-IN TROLLEY)	1010739
☐ PREHEAT SEALING STRIP (TO PREHEAT RECESSED DOOR UNITS WITHOUT ROLL-IN TROLLEY)	1010657
□ PROBE, SOUS VIDE	PR-34747
□ ROLL-IN PAN CART (H X W X D):	UN-27970
66-1/16" x 28-15/16" x 35-3/16" (1678mm x 734mm x 892mm)	
interchangeable with $20 \cdot 20$ combinate holding cabinet and QC2-100 quickchiller	
\Box ROLL-IN PAN CART — CORRECTIONAL INSTITUTION (H X W X D):	5010642
66-1/16" x 28-15/16" x 35-3/16" (1678mm x 734mm x 892mm)	
INCLUDES TAMPER-PROOF SCREWS AND WELDED HANDLE	
interchangeable with $20 { extstyle 20}$ combinate holding cabinet and QC2-100 quickchiller	
ROLL-IN PLATE CART (H x w x d) interchangeable with $20 \cdot 20$ combinate holding cabi	INET:
□ 108 PLATE CAPACITY $-65-7/8$ " x 28-15/16" x 39-7/8" (1674mm x 734mm x 1012mm)	
2-11/16" (69mm) SPACING	UN-27971
□ 108 PLATE CAPACITY $-65-7/8$ " x $28-15/16$ " x $39-7/8$ " (1674 mm x 734 mm x 1012 mm)	
2-11/16" (69mm) SPACING – CORRECTIONAL INSTITUTION	5009899
□ 78 PLATE CAPACITY − 65-7/8" x 28-15/16" x 39-7/8" (1674mm x 734mm x 1012mm)	
3-1/2" (89mm) SPACING	UN-28311
☐ SCALE FREE™ (CITRUS BASED, NON-CORROSIVE DELIMING PRODUCT)	CE-27889
☐ SERVICE START-UP CHECK AVAILABLE THROUGH AN ALTO-SHAAM FASTEAM CENTER	SPECIFY AS REQUIRED
☐ SHELF, STAINLESS STEEL WIRE	SH-22473
☐ THERMOBAG (COVER FOR ROLL-IN TROLLEY)	BL-29128