COMBITHERM







MODEL 10•18ESI DELUXE
CAPACITY OF TWENTY (20) FULL-SIZE OR GN 1/1 PANS,
TEN (10) FULL-SIZE SHEET OR GN 2/1 PANS
SHOWN WITH OPTIONAL MOBILE STAND 5005736

- Flash-steam generation makes conventional steam generator obsolete:
 - Eliminates steam generating boiler maintenance
 - Ends boiler heating element burn-out
 - Maintains steam levels without a water reservoir
- Cook by internal product temperature or time with temperature variable steam, convection heat, or a combination of both to roast, steam, bake, or oven-fry in a single piece of equipment.
- Provides increased food quality and expands menu options while increasing production efficiency and speed by as much as 70-percent compared to conventional cooking methods.
- EcoSmart[™] technology reduces energy cost by using less electricity and water during both normal operation and the cleaning function.
- \bullet Gold-n-Brown $^{\text{\tiny TM}}$ feature provides the operator with the ability to add additional product color.
- CombiClean™ feature uses scrubbing jets of water for fully automatic cleaning. Use either commercial-strength CombiClean Tablets or Combitherm Cleaning Liquid Spray.
- Standard and Deluxe control offers additional moisture injection, Delta-T cooking, multiple language display, and other features.
- Enhanced safety feature includes automatic steam venting immediately before cooking time expires. (U.S. Pat. 7,282,674)
- CombiSmokeTM is an optional feature patented smoking technology (U.S. Pat. 7,157,668; EU Pat. 1659911) that gives operators the unique ability to smoke any product, hot or cold.

SHORT FORM SPECIFICATIONS:

Provide Alto-Shaam Combitherm® counter-top Model 10•18Esi flash-steam electric CombiOven designed with EcoSmartTM 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-BrownTM browning function; and a self-adjusting, flush-mounted rotary door handle with a steam venting safety stop. Control to include 2-speed fan and cool-down function. Oven is to be constructed of 18 gauge stainless steel, include an attached spray hose with backflow preventer, and automatic cleaning function. The oven is to accommodate up to 10 full-size sheet pans or 20 full-size hotel pans, and standard right-hand door hinging. The oven is to include the patented CombiSmokeTM smoking function (only if requested with order).

STANDARD CONTROL: To include removable quick-connect internal product temperature probe in the oven interior. **DELUXE CONTROL:** To include removable quick-connect internal product temperature probe in the oven interior

and programming capability with Rapid-Touch™ operational quick-keys.

S-CONTROL: To include removable quick-connect internal product temperature probe in the oven interior as an option.

MODELS:

☐ 10•18esi: STANDARD

☐ 10•18esi: DELUXE

☐ 10•18esi: s-control

STANDARD FEATURES AND ACCESSORIES

- Five (5) stainless steel shelves
- Two (2) stainless steel side racks with
 Ten (10) non-tilt pan support rails
 21-1/16" (535mm) horizontal width between rails
 2-5/8" (65mm) vertical spacing between rails
- Four (4) removable adjustable legs
- One (1) hand-held shower with backflow preventer PATENT PENDING
- One (1) flush-mounted rotary door latch with steam venting position
- Single-point detachable temperature probe (OPTIONAL ON S-CONTROL MODELS)



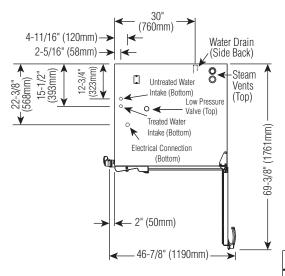


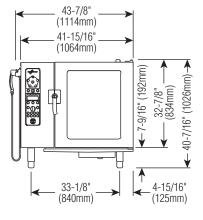


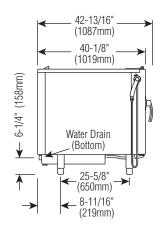




10.18 esi combioven







INSTALLATION REQUIREMENTS

Oven must be installed level.

Hood installation is required.

Water supply shut-off valve and back-flow preventer.

DIMENSIONS: H x W x D

EXTERIOR:

40-7/16" x 43-7/8" x 42-13/16" (1026mm x 1114mm x 1087mm)

EXTERIOR WITH RETRACTABLE DOOR:

40-7/16" x 47-7/8" x 42-13/16" (1026mm x 1216mm x 1087mm)

INTERIOR:

30-3/4" x 23-1/2" x 28-7/16" (781mm x 596mm x 722mm)

WATER REQUIREMENTS

TWO (2) COLD WATER INLETS - DRINKING QUALITY

3/4" NPT* ONE (1) TREATED WATER INLET: 3/4" NPT* ONE (1) UNTREATED WATER INLET:

LINE PRESSURE: 30 to 90 psi 2.8 to 6.2 bar

WATER DRAIN: 1-1/2" CONNECTION WITH AIR GAP

* Can manifold off of one 3/4" line.

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 is compliant with the specifications listed through adequate treatment measures. Installation of the CombiGuard™ Water Filtration System is recommended, but this system may not address all water quality issues present.

Contaminant Free Chlorine Hardness

Less than 0.1 ppm (mg/L) Less than 3 gpg (52 ppm) Less than 30 ppm (mg/L)

Inlet Water Requirements (untreated water)

Chloride рΗ Alkalinity

7.0 to 8.5 Less than 50 ppm (mg/L)

Silica

Less than 12 ppm (mg/L)

Total Dissolved Solids (tds)

Less than 60 ppm

CLEARANCE REQUIREMENTS

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

20" (508mm) FROM HEAT PRODUCING EQUIPMENT

RIGHT: 4" (102mm) TOP: 20" (508mm) FOR AIR MOVEMENT BOTTOM: 5-1/8" (130mm) FOR LEGS

BACK: 4" (102mm) COUNTER-TOP INSTALLATIONS MUST MAINTAIN 4" (102mm) MINIMUM

CLEARANCE FROM COUNTER SURFACE.

EL	ECTRICAL	(DEDICATED CIRCUIT REQU	10•18Esi		10•18Esi/sk			
	VOLTAGE	PHASE CY	CLE/HZ	AWG	AMPS	kW	AMPS	kW
208-240	at 208 at 240	3	60	3 Wire plus ground AWG 2	61.1/ph 70.3/ph	22.0 29.2	62.5/ph 71.5/ph	22.5 29.7
380-415	at 380 at 415	3	50	4 Wire plus ground AWG 8	33.5/ph 40.7/ph	22.0 29.2	34.2/ph 41.4/ph	22.5 29.7
440-480	at 440 at 480	3*	60	3 Wire plus ground AWG 8	35.7/ph 43.5/ph	27.2 36.1	36.4/ph 44.0/ph	27.7 36.6
	*							
WE	EIGHT		CAPACITY					
		= 11	TI II I	Thursday	(20)	Ei alataan	- (10)	

WEIGI	нт		CAPACITY				
NET	455 lb	(206 kg)	FULL-SIZE PANS: 20" x 12" x 2-1/2"	Twenty (20)	Eighteen (18)		
SHIP	585 lb	(265 kg)	GN 1/1: 530 x 325 x 65mm	Twenty (20)	Eighteen (18)		
			GN 2/1: 650 x 530 x 65mm	Ten (10)	Eight (8)		
CRATE DIMENSIONS: (L X W X H)			FULL-SIZE SHEET PANS:* 18" x 26" x 1"	Ten (10)	Nine (9)		
	53" x 45" x 4	.9"	ON WIRE SHELVES ONLY				
			240 lb (109 kg) maximum				
	(1346 x 1143 x 12	45mm)	volume maximum: 150 quarts (190 liters)				

 $[^]st$ additional wire shelves required for maximum capacity

COMBITHERM®

ALTO-SHAAM



10-18_{ESi} COMBIOVENT



Deluxe Control



The Combitherm deluxe control includes all the operational functions of the standard control and adds a programming function. Program memory can accept up to 250 procedures, each with up to 20 steps in any combination of cooking modes. The deluxe control also features a set of 8 Rapid-TouchTM keys to assign frequently used programs to cook at the touch of a single button.



The Combitherm standard control includes all operational functions shown to steam, bake, and roast by time or internal product temperature. The control features the Gold-n-Brown™ automatic browning function, a Retherm Mode for plate regeneration, plus a wide variety of auxiliary functions and operational settings. This control is offered for operators that do not require programming capability.

S-Control

The Combitherm S-Control includes all basic combination oven operational modes with the use of rotary dials. The S-Control also features the Gold-n-Brown™ automatic browning function, an automatic cleaning setting, an oven cool-down function, and a half-speed fan position. S-Control models can also be furnished with CombiSmoke or Core Temperature option package.



Steam Mode

Automatic steaming at 212°F (100°C) Quick steaming between 213°F and 248°F (101°C and 120°C) Low temp steaming between 86°F and 211°F (30°C and 99°C)



Combination Mode

Steam and convection cooking with a temperature range of 212°F to 482°F (100°C to 250°C)



Convection Mode

Cooking without steam at a temperature range of 86°F to 482°F (30°C to 250°C)



Retherm Mode

Food or plated meal reheating with automatic steam injection at a temperature range of 248°F to 320°F (120°C to 160°C)



Core Temperature Mode

Cooking by sensing internal product temperature in any selected cooking mode



Gold-n-Brown™

An automatic browning function to be set or programmed as needed to add additional product color in the combination or convection mode of operation.



CombiSmoke™ (option)

Patented Alto-Shaam technology (U.S. Pat. 7,157,668; EU Pat. 1659911) provides the ability to smoke any product, hot or cold, utilizing real wood chips. The smoking feature functions in both combination and convection mode and can be programmed into deluxe model operating procedure.



COMBITHERM®



10-18ESi COMBIOVENT Boiler-

FACTORY INSTALLED OPTIONS

(MAY REQUIRE ADDITIONAL LEAD TIME)

☐ **CombismokeTM** (U.S. Pat. 7,157,668; EU Pat. 1659911)

NO CHARGE WHEN REQUESTED AT TIME OF ORDER.

SAMPLE BAG OF WOOD CHIPS INCLUDED.



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INCREASES OVEN WIDTH BY 4" (102mm)

□ Left-Hand Door Swing

INCREASES OVEN WIDTH BY 1" (25mm)

Single-point removable temperature probe

INCLUDED ON STANDARD AND DELUXE OVENS

- ☐ OPTIONAL ON S-CONTROL OVENS WITHOUT COMBISMOKE OPTION [5005679]
- ☐ OPTIONAL ON S-CONTROL OVENS WITH COMBISMOKE OPTION [5011457]

□ Multi	-point,	hard-wired	internal	product	temperature	probe	[5005678]
	-			-	=	-	-

NOT AVAILABLE ON OVENS WITH S-CONTROL

☐ Security Devices FOR CORRECTIONAL FACILITY USE

EXCLUDES TEMPERATURE PROBE

Additional Security Options

- \square anti entrapment device [5011081]
- ☐ CONTROL PANEL SECURITY COVER [5011080]
- \square hasp door lock (padlocks not included) [5011079]
- \square seismic leg package (for bolting to the countertop) [5011135]
- ☐ TAMPER-PROOF SCREW PACKAGE FOR OVEN [5011082]

■ Ventless Hood VHES-10 [5011181]

NOT AVAILABLE ON SMOKER MODELS OR STACKED COMBINATIONS

\square Stacking Combinations

MUST BE SPECIFIED AT TIME OF ORDER

SEE INDIVIDUAL STACKING COMBINATION SPECIFICATIONS SHEETS

- ☐ 6•10esi over 10•18esi, stationary
- ☐ 6•10es over 10•18esi, stationary
- ☐ 6•10esiN over 10•18esi, stationary
- ☐ ADDITIONAL MOBILE STACKING BASE

\square Computer Software Options [5005676]

Not available on S-Control Models.

REFER TO HACCP SPECIFICATION SHEET #9015

FOR APPLICABLE PART NUMBERS

□ HACCP Documentation

☐ HACCP Documentation with Kitchen Management



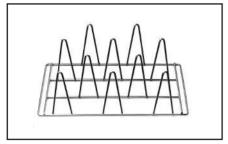
☐ Wireless HACCP Documentation with Kitchen Management



IEEE 802.11b STANDARDS

COMBITHERM®

10-18_{ESi} combloven[™]



Ten (10) Chicken Roasting Rack SH-22634



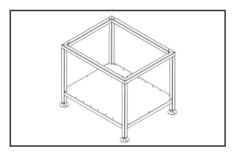
Six (6) Chicken Roasting Rack (PAN NOT INCLUDED) SH-23000



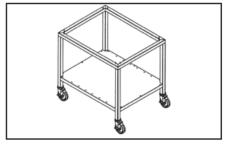
Fry Basket BS-26730



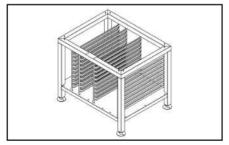
Grilling Grate SH-26731



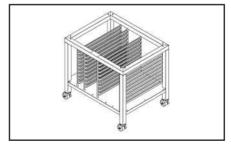
Stationary Stand with Shelf 5005731



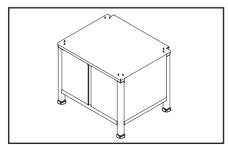
Mobile Stand with Shelf 5005735



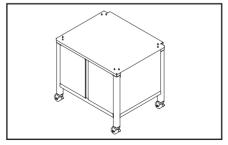
Stationary Stand with Pan Slides & Shelf 5005732



Mobile Stand with Pan Slides & Shelf 5005736



Stationary Stand with Shelf & Skirt 5005733



Mobile Stand with Shelf & Skirt 5005737







OPTIONS & ACCESSORIES							
☐ CHICKEN GREASE TRAY WITH DRAIN: 1-1/2" (3	38mm) deep	4758					
☐ CHICKEN GREASE TRAY WITH DRAIN: 2-3/4" (7	70mm) deep	14475					
CHICKEN ROASTING RACKS:							
☐ 6 CHICKEN CAPACITY — FITS FULL-SIZE PAN: 6 RAG	CKS PER OVEN	SH-23000					
☐ 8 CHICKEN CAPACITY — FITS FULL-SIZE PAN: 6 RAG	CKS PER OVEN	SH-23619					
☐ 10 CHICKEN CAPACITY — FITS IN SIDE RACKS: 6 RA	SH-22634						
COMBIGUARD™ TRIPLE-GUARD WATER FILTRATION SYSTEM (INCLUDES 1 CARTRIDGE)							
\square COMBIGUARD TM REPLACEMENT FILTER		FI-26356					
☐ COMBITHERM CLEANING LIQUID — SPECIAL	LY FORMULATED FOR COMBITHERM OVENS						
➡ TWELVE (12) CONTAINERS/CASE, 1 QUART (C. 1 LIT	er) each	CE-24750					
☐ COMBICLEAN™ TABLETS — SPECIALLY FORMUL	ATED FOR COMBITHERM OVENS						
ightharpoonup 90 packets each container - must be ordered i	IN EVEN QUANTITIES OF TWO (2) OR MORE	CE-28892					
☐ FRY BASKET, 12" × 20" (325mm × 530mm)	BS-26730						
☐ GRILLING GRATE, 12" × 20" (325mm × 530mm)		SH-26731					
\square SCALE FREE (CITRUS BASED, NON-CORROSIVE DEL	IMING PRODUCT)	CE-27889					
SERVICE START-UP CHECK AVAILABLE THROUGH AN ALTO-SHAAM FASTEAM CENTER SPECIFY AS REQUIRED							
\square SHELF, STAINLESS STEEL WIRE		SH-22584					
STAND, STAINLESS STEEL (H X W X D):							
☐ ➡ STATIONARY WITH SHELF	29-7/16" x 35-7/16" x 28" (746mm x 900mm x 710mm)	5005731					
☐ ➡ STATIONARY WITH PAN SLIDES & SHELF	29-7/16" x 35-7/16" x 28" (746mm x 900mm x 710mm)	5005732					
☐ ➡ STATIONARY WITH SHELF & SKIRT	29-7/16" x 35-7/16" x 29-5/8" (746mm x 900mm x 751mm)	5005733					
\square \Longrightarrow stationary with pan slides, shelf, & skirt	29-7/16" x 35-7/16" x 29-5/8" (746mm x 900mm x 751mm)	5005734					
☐ ➡ MOBILE WITH SHELF	32-1/16" x 35-7/16" x 28" (815mm x 900mm x 710mm)	5005735					
☐ ➡ MOBILE WITH PAN SLIDES & SHELF	32-1/16" x 35-7/16" x 28" (815mm x 900mm x 710mm)	5005736					
☐ ➡ MOBILE WITH SHELF & SKIRT	32-1/16" x 35-7/16" x 29-5/8" (815mm x 900mm x 751mm)	5005737					
☐ ➡ MOBILE WITH PAN SLIDES, SHELF, & SKIRT	32-1/16" x 35-7/16" x 29-5/8" (815mm x 900mm x 751mm)	5005738					
☐ ➡ STATIONARY	37-3/4" x 35-7/16" x 28" (957mm x 900mm x 710mm)	5006170					
WOOD CHIPS — BULK PACK 20 lb (9 kg) □ → AppleWC-22543 □ → CherryWG	C-22541 □ ➡ HickoryWC-2829 □ ➡ Maple	.WC-22545					

