### **COMBITHERM**







MODEL 10•18ES 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

- 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<sup>TM</sup> 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<sup>™</sup> 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)

### SHORT FORM SPECIFICATIONS:

Provide Alto-Shaam Combitherm® counter-top Model 10•18ES electric CombiOven designed with EcoSmart<sup>TM</sup> 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<sup>TM</sup> browning function; and a self-adjusting, flush-mounted rotary door handle with a steam venting safety stop. Control to include 2-speed fan, cool-down function, and automatic decalcification. 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.

**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  $^{\text{TM}}$  operational quick-keys.

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

### **MODELS:**

- ☐ 10•18ES: STANDARD
- □ 10 18 ES: DELUXE
- ☐ 10•18es: 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)



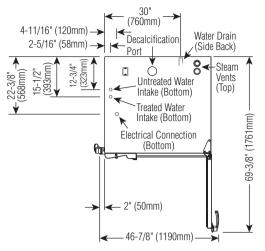
W164 N9221 Water Street • P.O. Box 450 • Menomonee Falls, Wisconsin 53052-0450 • U.S.A.

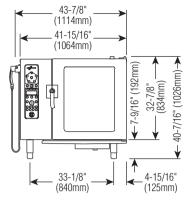
PHONE: 262.251.3800 800.558.8744 U.S.A./CANADA FAX: 262.251.7067 800.329.8744 U.S.A. ONLY

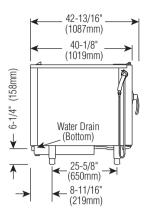
www.alto-shaam.com



## 10.18 combioven







### **DIMENSIONS:** H x W x D

### **INSTALLATION REQUIREMENTS**

Oven must be installed level.

Hood installation is required.

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

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

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

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<sup>TM</sup> Water Filtration System is recommended, but this system may not address all water quality issues present.

Contaminant Free Chlorine Hardness Chloride Inlet Water Requirements (untreated water) Less than 0.1 ppm (mg/L) Less than 3 gpg (52 ppm) Less than 30 ppm (mg/L)

7.0 to 8.5

рĤ Alkalinity Less than 50 ppm (mg/L) Less than 12 ppm (mg/L)

Silica 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

TOP: 20" (508mm) FOR AIR MOVEMENT RIGHT: 4" (102mm)

BACK: 4" (102mm) BOTTOM: 5-1/8" (130mm) FOR LEGS COUNTER-TOP INSTALLATIONS MUST MAINTAIN 4" (102mm) MINIMUM

CLEARANCE FROM COUNTER SURFACE.

### ELECTRICAL (DEDICATED CIRCUIT REQUIRED)

OLTAGE	PHASE	CYCLE/HZ	AWG	AMPS	kW
at 208	3	60	3 Wire plus ground	61.3/ph	22.0
at 240			AWG 2	70.0/ph	29.2
at 380	3	50	4 Wire plus ground	33.5/ph	22.0
at 415			AWG 6	40.7/ph	29.2
at 440	3*	60	3 Wire plus ground	36.0/ph	27.2
at 480			AWG 6	43.5/ph	36.1
	at 208 at 240 at 380 at 415	at 208 3 at 240 at 380 3 at 415 at 440 3*	at 208 3 60 at 240 at 380 3 50 at 415 at 440 3* 60	at 208 3 60 3 Wire plus ground AWG 2  at 380 3 50 4 Wire plus ground at 415 AWG 6  at 440 3* 60 3 Wire plus ground	at 208 3 60 3 Wire plus ground 61.3/ph AWG 2 70.0/ph at 380 3 50 4 Wire plus ground 33.5/ph at 415 AWG 6 40.7/ph at 440 3* 60 3 Wire plus ground 36.0/ph

### \* ELECTRICAL SERVICE CHARGE APPLIES

WEIGH	łT		CAPACITY			
NET	514 lb	(233 kg)	FULL-SIZE PANS:	20" x 12" x 2-1/2"	Twenty (20)	
			GN 1/1:	530 x 325 x 65mm	Twenty (20)	
SHIP	650 lb	(295 kg)	GN 2/1:	650 x 530 x 65mm	Ten (10)	
CRATE DIMENSIONS: (L X W X H)			FULL-SIZE SHEET PANS:*	18" x 26" x 1"	Ten (10)	
53" x 45" x 49" (1346 x 1143 x 1245mm)			ON WIRE SHELVES ONLY			
			240 lb (109 kg) maximum			
			volume maximum: 150 quarts (190 liters)			

<sup>\*</sup>ADDITIONAL WIRE SHELVES REQUIRED FOR MAXIMUM CAPACITY

### **COMBITHERM**



# 10•18<sub>ES</sub>

# 

### **Deluxe Control**

### (PICTURED)

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-Touch<sup>TM</sup> keys to assign frequently used programs to cook at the touch of a single button.

### **Standard Control**

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 a 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



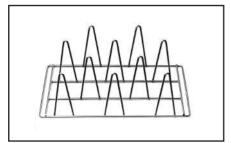
### Gold-n-Brown™

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



### **COMBITHERM**®

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Ten (10) Chicken Roasting Rack SH-22634



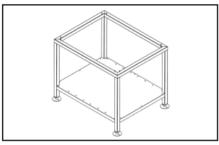
Six (6) Chicken Roasting Rack (PAN NOT INCLUDED) SH-23000



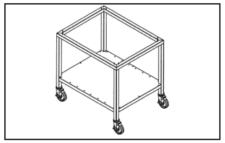
Fry Basket BS-26730



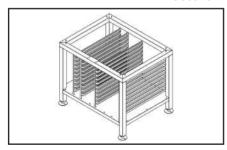
Grilling Grate SH-26731



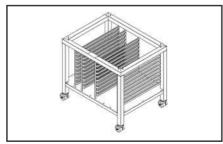
Stationary Stand with Shelf 5005731



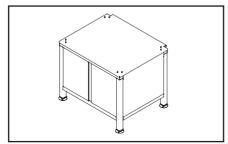
Mobile Stand with Shelf 5005735



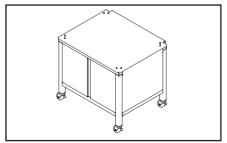
Stationary Stand with Pan Slides & Shelf 5005732



Mobile Stand with Pan Slides & Shelf 5005736



Stationary Stand with Shelf & Skirt 5005733



Mobile Stand with Shelf & Skirt 5005737

### **COMBITHERM**<sub>®</sub>





### **FACTORY INSTALLED OPTIONS**

(MAY REQUIRE ADDITIONAL LEAD TIME)

Recessed Door
INCREASES OVEN WIDTH BY 4" (102mm)
Left-Hand Door Swing INCREASES OVEN WIDTH BY 1" (25mm)
Single-point removable temperature probe (PATENT PENDING) INCLUDED ON STANDARD AND DELUXE OVENS
OPTIONAL ON S-CONTROL OVENS [5005679]
<b>Multi-point, hard-wired internal product temperature probe</b> [5005678] NOT AVAILABLE ON OVENS WITH S-CONTROL
Security Devices for Correctional Facility Use  EXCLUDES TEMPERATURE PROBE  Additional Security Options  ANTI ENTRAPMENT DEVICE [5011081]  CONTROL PANEL SECURITY COVER [5011080]  HASP DOOR LOCK (PADLOCKS NOT INCLUDED) [5011079]  SEISMIC LEG PACKAGE (FOR BOLTING TO THE COUNTERTOP) [5011135]  TAMPER-PROOF SCREW PACKAGE FOR OVEN [5011082]
Ventless Hood VHEs-10 [5011181]
NOT AVAILABLE ON STACKED COMBINATIONS
Stacking Combinations  MUST BE SPECIFIED AT TIME OF ORDER  SEE INDIVIDUAL STACKING COMBINATION SPECIFICATIONS SHEETS  6•10es over 10•18es, STATIONARY  6•10esi over 10•18es, STATIONARY  6•10esiN over 10•18es, STATIONARY  ADDITIONAL MOBILE STACKING BASE
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  NAFEM DATA PROTOCOL  C O M P L I A N T
□ Wireless HACCP Documentation with Kitchen Management  NAFEM DATA PROTOCOL  C O M P L I A N T
IEEE 802.11b STANDARDS







OPTIONS & ACCESSORIES					
☐ CHICKEN GREASE TRAY WITH DRAIN: 1-1/2" (38mm) DEEP					
☐ CHICKEN GREASE TRAY WITH DRAIN: 2-3/4" (70mm) DEEP					
CHICKEN ROASTING RACKS:	CHICKEN ROASTING RACKS:				
☐ 6 CHICKEN CAPACITY — FITS FULL-SIZE PAN: 6 RAC	CKS PER OVEN	SH-23000			
☐ 8 CHICKEN CAPACITY — FITS FULL-SIZE PAN: 6 RAC	CKS PER OVEN	SH-23619			
☐ 10 CHICKEN CAPACITY — FITS IN SIDE RACKS: 6 RA	CKS PER OVEN	SH-22634			
☐ COMBIGUARD™ TRIPLE-GUARD WATER FILTRATION SYSTEM (INCLUDES 1 CARTRIDGE)					
☐ COMBIGUARD™ REPLACEMENT FILTER		FI-26356			
☐ COMBITHERM CLEANING LIQUID — SPECIAL	LY FORMULATED FOR COMBITHERM OVENS				
➡ TWELVE (12) CONTAINERS/CASE, 1 QUART (C. 1 LITER) EACH					
☐ COMBICLEAN™ TABLETS — SPECIALLY FORMULA	ATED FOR COMBITHERM OVENS				
⇒ 90 packets each container - must be ordered in even quantities of two (2) or more CE					
☐ FRY BASKET, 12" x 20" (325mm x 530mm)					
☐ <b>GRILLING GRATE</b> , 12" x 20" (325mm x 530mm)					
□ SCALE FREE™ (CITRUS BASED, NON-CORROSIVE DELIMING PRODUCT)					
☐ SERVICE START-UP CHECK AVAILABLE THROUGH	☐ SERVICE START-UP CHECK AVAILABLE THROUGH AN ALTO-SHAAM FASTEAM CENTER SPECIFY AS REQUIRED				
□ SHELF, STAINLESS STEEL WIRE					
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			
☐ ➡ 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			

