





MODEL 20•20ES DELUXE CAPACITY OF FORTY (40) FULL-SIZE OR GN 1/1 PANS, TWENTY (20) FULL-SIZE SHEET OR GN 2/1 PANS

- 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>™</sup> technology reduces energy cost by using less electricity and water during both normal operation and the cleaning function.
- Gold-n-Brown<sup>™</sup> 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<sup>®</sup> floor standing Model 20•20ES electric CombiOven designed with EcoSmart<sup>™</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>™</sup> 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, automatic cleaning function, and automatic decalcification. The oven is to accommodate up to 20 full-size sheet pans or 40 full-size hotel pans, include standard right-hand door hinging, and Roll-in pan cart with removable drip tray and cart handle.

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<br/>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.

STANDARD FEATURES AND ACCESSORIES

$\Box$ 20•20es: STANDARD	<ul> <li>Roll-in pan cart completely interchangeable with QC-100 QuickChiller<sup>™</sup> and 20•20 CombiMate<sup>®</sup> companion holding cabinet with:</li> </ul>
$\Box$ 20•20es: Deluxe	Twenty (20) non-tilt pan support rails
	21-1/8" (537mm) horizontal width between rails
$\Box$ 20•20es: s-control	2-5/8" (67mm) vertical spacing between rails
	Ten (10) stainless steel shelves
	Removable drip tray and cart handle
	• Four (4) 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)



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## 20-20es combioven

27-5/8" ←	2,-1/2 (mmo (229mm) (329mm) (	Comm) (Side Electrical Electrical Contention (Top treated Water take (Bottom) ated Water e (Bottom)	nm) Drain Back) n	40-15/16"	91 11/16" (195mm) → 11/16" (195mm) → 11/16" (195mm)	48" 1218mm) 45-5/16" 1151mm) er Drain ottom) 3-1/2" 51mm) -1/16" (52mm)			
	DIMENSIONS: H x W x D								
INSTAL	LATION REG	UIREMEN	TS		EXTERIOR: 76-1/4" x 46-3/4" x 48" (1936mm x 1186mm x 1218mm)				
	ust be installed				ETRACTABLE DOOR				
	Hood installation is required.				76-1/4" x 50-3/4" x 48" (1936mm x 1288mm x 1218mm)				
	pply shut-off val	1	low preventer.	INTERIOR:					
			1	60-1/4" x			x 667mm x 830mm) JM STANDARDS		
TWO (2) COLD WATER INLETS - DRINKING ONE (1) TREATED WATER INLET: 3/4" NPT* ONE (1) UNTREATED WATER INLET: 3/4" NPT* LINE PRESSURE: 30 to 90 psi 2 WATER DRAIN: 1-1/2" CONNECTION WITH A * Can manifold off of one 3/4" line. CLEARANCE REQUIREMENTS LEFT: 6" (152mm) PLUS SERVICE ACCESS: 18" (457mm 20" (508mm) FROM HEAT PRODUCING EQUIPM RIGHT: 4" (102mm) TOP: 20" (508mm) FOR BACK: 4" (102mm) BOTTOM: 5-1/8" (130mm)			2.8 to 6.2 bar AIR GAP m) RECOMMENDED IENT R AIR MOVEMENT	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 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					
	RICAL (DEDICA					11/20	kW		
	t 208	PHASE 3	CYCLE/HZ	3 Wire plu	WG	амря 151.2/ph	54.4		
-8	t 208 t 240	3	50760	-	G 4	173.9/ph	72.2		
10	t 380	3	50/60	4 Wire plu		83.0/ph	54.4		
<sup>m</sup> a	t 415			AW	G 2	101.0/ph	72.2		
a 440-480	t 440	3*	50/60	3 Wire plu	ıs ground	71.5/ph	54.4		
- <sup>4</sup> a	t 480				G 2	87.0/ph	72.2		
		* ELECTRI	CAL SERVICE CH						
WEIGH					00" - 10" - 0	1 /0"	Easter (40)		
NET	958 lb.	(435 kg)		JLL-SIZE PANS: GN 1/1:	20" x 12" x 2 530 x 325 x 6		Forty (40) Forty (40)		
SHIP	1364 lb	(619 kg)		GN 2/1:	650 x 530 x 6	5mm	Twenty (20)		
<b>CRATE DIMENSIONS:</b> (L X W X H) EST			E SHEET PANS:* wire shelves only	18" x 26" x	¢ 1''	Twenty (20)			
53" x 53" x 87"			480 lb (218 kg) maximum						
(1346 x 1346 x 2210mm)				*ADDITIONAL WIRE SHELVES REQUIRED FOR MAXIMUM CARACITY					

\*ADDITIONAL WIRE SHELVES REQUIRED FOR MAXIMUM CAPACITY



# 20-20<sub>ES</sub>

Automatic steaming at 212°F (100°C)

Low temp steaming between 86°F and

Steam and convection cooking with a

temperature range of 212°F to 482°F

Quick steaming between 213°F and

248°F (101°C and 120°C)

211°F (30°C and 99°C)

**Combination Mode** 

(100°C to 250°C)



#### 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>™</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<sup>™</sup> 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 halfspeed fan position. S-Control models can also be furnished with a Core Temperature option package.



## 212' - 482' F 100' - 250' C



R

**Convection Mode** Cooking without steam at a temperature range of 86°F to 482°F

#### Retherm Mode

(30°C to 250°C)

Steam 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.





## 20•20<sub>ES</sub>

#### FACTORY INSTALLED OPTIONS

(MAY REQUIRE ADDITIONAL LEAD TIME)

#### Recessed Door INCREASES OVEN WIDTH BY 4" (102mm) Single-point removable temperature probe (PATENT PENDING) INCLUDED ON STANDARD AND DELUXE OVENS □ OPTIONAL ON S-CONTROL OVENS [5011570] □ 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** □ ANTI ENTRAPMENT DEVICE [5011081] □ CONTROL PANEL SECURITY COVER [5011080] □ HASP DOOR LOCK (PADLOCKS NOT INCLUDED) [5011079] □ TAMPER-PROOF SCREW PACKAGE FOR OVEN [5011082] □ Computer Software Options [5005676] Not available on S-Control Models. REFER TO HACCP SPECIFICATION SHEET #9015 FOR APPLICABLE PART NUMBERS □ HACCP Documentation

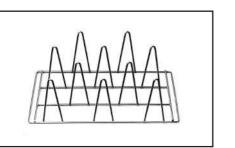
- □ HACCP Documentation with Kitchen Management
- Wireless HACCP Documentation with Kitchen Management

  NATEM DATA PROTOCOL

  IEEE 802.11b STANDARDS

### **COMBITHERM**.

## 20-20<sub>ES</sub>



Ten (10) Chicken Roasting Rack SH-22634



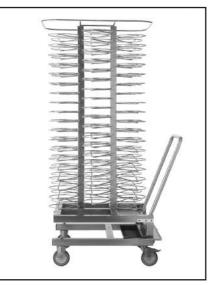
Six (6) Chicken Roasting Rack (PAN NOT INCLUDED) SH-23000



Grilling Grate SH-26731



Fry Basket BS-26730



Roll-in Plate Cart (108 Plate Capactity) UN-27971



Roll-in Pan Cart UN-27970





OPTIONS & ACCESSORIES	
□ CHICKEN GREASE TRAY WITH DRAIN: $1-1/2$ " (38mm) deep	4758
□ CHICKEN GREASE TRAY WITH DRAIN: 2-3/4" (70mm) DEEP	14475
CHICKEN ROASTING RACKS:	
□ 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
□ COMBIGUARD <sup>TM</sup> TRIPLE-GUARD WATER FILTRATION SYSTEM (INCLUDES 1 CARTRIDGE)	FI-23014
□ COMBIGUARD <sup>™</sup> REPLACEMENT FILTER	FI-26356
<b>COMBITHERM CLEANING LIQUID</b> — SPECIALLY FORMULATED FOR COMBITHERM OVENS	
➡ TWELVE (12) CONTAINERS/CASE, 1 QUART (C. 1 LITER) EACH	CE-24750
<b>COMBICLEAN<sup>TM</sup> TABLETS</b> — SPECIALLY FORMULATED FOR COMBITHERM OVENS	
$\Rightarrow$ 90 packets each container - must be ordered in even quantities of two (2) or more	CE-28892
□ CONTROL PANEL HEAT SHIELD ASSEMBLY	5010735
□ FRY BASKET, 12" x 20" (325mm x 530mm)	BS-26730
GRILLING GRATE, 12" x 20" (325mm x 530mm)	SH-26731
<b>PREHEAT SEALING STRIP</b> (TO PREHEAT RIGHT HAND UNITS WITHOUT ROLL-IN TROLLEY)	1010739
<b>PREHEAT SEALING STRIP</b> (TO PREHEAT RECESSED DOOR UNITS WITHOUT ROLL-IN TROLLEY)	1010752
□ ROLL-IN PAN CART:	UN-27970
(H X W X D): 66-1/16" x 28-1/8" x 35-3/16" (1678mm x 714mm x 892mm)	
interchangeable with $20 \bullet 20$ combimate holding cabinet and QC-100 quickchiller	
□ ROLL-IN PAN CART — SECURITY OPTION:	5010642
INCLUDES TAMPER-PROOF SCREWS AND WELDED HANDLE	
(H X W X D): 66-1/16" x 28-1/8" x 35-3/16" (1678mm x 714mm x 892mm)	
interchangeable with $20 \bullet 20$ combinate holding cabinet and QC-100 quickchiller	
ROLL-IN PLATE CART:	
interchangeable with $20{ullet}20$ combinate holding cabinet and QC-100 quickchiller	
$\Box$ 78 plate capacity –	
(H X W X D): 65-1/2" x 30-5/16" x 39-9/16" (1663mm x 770mm x 1004mm)	
plate size $10$ " to $12$ " diameter (254mm to 305mm) plates; $3 \cdot 1/2$ " (89mm) spacing	UN-28311
$\Box$ 108 plate capacity –	
(H X W X D): 65-15/16" x 28-1/8" x 39-13/16" (1673mm x 714mm x 1011mm)	
plate size $10$ " to $12$ " diameter (254mm to 305mm) plates; 2-11/16: (69mm) spacing	UN-27971
$\Box$ 108 plate capacity – security option	
(H X W X D): 65-15/16" x 28-1/8" x 39-13/16" (1673mm x 714mm x 1011mm)	
PLATE SIZE 10" TO 12" DIAMETER (254mm TO 305mm) PLATES; 2-11/16: (69mm) SPACING	5009899
□ SCALE FREE <sup>TM</sup> (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



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