Combi-Vector® Stacked Configuration 7-20 Pro over Vector F w/Deluxe Control



Discover Alto-Shaam's one-of-a-kind stacking combination, the 7-20 Classic Prodigi™ Oven, stacked over Alto-Shaam's revolutionary Vector® Multi-Cook Oven.

CV3 and CV4 Models Gas or Electric

Maximize food production, efficiency, and versatility while minimizing required hood space.

Create up to four or five distinct and separate cooking chambers within a single footprint with less water and plumbing required. This configuration features the Prodigi oven's combination cooking and Vector oven's Structured Air Technology® for unmatched production efficiency and superior food quality.

Achieve a variety of advanced cooking applications with the ability to steam, poach, roast, bake, grill, braise, finish, and more in one single vertical cooking solution.

Standard features: Prodigi 7-20

- Take the guesswork out of oven operation with an intuitive, customizable control. Programmable, image-based recipes and onetouch cooking allow any level of labor to execute menu items at the highest quality.
- Execute automatic software downloads, push and pull recipes, view detailed reports and more from a single location with ChefLinc™ remote oven management.
- 80% less water usage with boilerless design. Superior performance, improved reliability, and less maintenance costs associated with boiler parts and labor.
- Absolute Humidity Control™ allows for selection of any humidity level from 0–100% to maximize food quality, texture, and yield. The fivespeed, auto-reversing fan provides balanced airflow for ideal product browning, texture and finish.
- Removable food probe can be easily replaced and calibrated. Improve reliability while reducing oven downtime and repair costs. Sous vide probe optional.
- Zero clearance design saves valuable space under the exhaust hood and reduces ventilation costs. Place models next to any piece of equipment - anywhere on the line.
- Reduce labor with automatic cleaning. Multiple cycle options from "light clean" to "heavy plus" use safe, convenient cleaning tablets or optional liquid cleaner.
- LED illuminated door handle is designed for the needs of the busy kitchen, and provides visual notification of the oven status.
- Temperature range: 85°F to 550°F (30°C to 302°C)

Condensable Particulate Matter (CPM) emissions produced through the most aggressive testing methods available were measured at 0.77 mg/m³ for 11,660 beef patties which is below the maximum allowable level of 5.0 mg/m³ established by EPA test method 202. This product is UL listed under KNLZ in the U.S. and Canada.



Model CV4 Shown

Standard features: Vector F

- Unmatched food production and quality with Structured Air Technology.
- Control temperature, fan speed and cook time in each individual oven chamber. Cook food the way it's meant to be cooked – to perfect your dishes.
- Expand menus and cook up to four different food items simultaneously with zero flavor transfer.
- Increased throughput to cook twice as much food in the same amount of time as traditional ovens.
- Replace or relieve multiple pieces of equipment and do the job of traditional ovens, microwave and speed ovens, grills, conveyor ovens, and salamanders—with better food quality.
- Superior consistency to deliver the same high-quality food every time.
- Reduce skilled labor with fully programmable user-friendly controls.
 Cook at the touch of a button with programmable recipes.
- Efficient, even heat distribution to perfect food. No food degradation.
 No hot and cold spots. No need to watch and rotate pans.
- Waterless operation reduces installation and operating costs no plumbing, drains, filtration or associated maintenance.
- Open the door as needed. Vertical curtains of air nearly eliminate heat loss. No blast of hot air. Cooler door. Almost no recovery times.
- Designed for high-volume batch cooking and to save valuable kitchen space. One Vector F Series oven replaces two traditional ovens.
- Adapts to your menu needs. Cook taller food items by time or optional probe by combining chambers.
- Temperature range: 85°F to 525°F (30°C to 274°C)

















Dimensions — 7-20 Pro over F4 Overall and Utilities

47" [1194mm]

-50" [1270mm]

--5-3/4" [145mm] 32-3/16" [818mm]



·6-11/16" [170mm](F) A: ETHERNET 4-7/8" [124mm] (B & D) **B: TREATED WATER** C: GAS CONNECTION CV4 4-3/16" [107mm](C) D: UNTREATED WATER 7-20 Pro over F4 3-3/16" [81mm](G) E: ELECTRICAL CONNECTION F: LIQUID CLEAN 2" [51mm](A) G: DRAIN -2" [50mm](E) Chamber width: 26-1/4" (667mm) Chamber depth: 20-5/8" (525mm) Chamber height with wire shelf: 3-3/4" (94mm) Chamber height: 4-1/4" (108mm) Combined chamber height with wire shelf: 10-5/8" (269mm) Combined chamber height: 1-1/4" (287mm) 54-13/16" [1392mm](B) 52-1/8" [1325mm](C) 47-7/8" [1217mm](E) 41-3/8" [1051mm](G)-DETAIL A 71-7/8" [1825mm] DOOR SWING 68-1/4" [1733mm] 3-1/4" [82mm](A) 3-11/16" [93mm] (C) 1-7/8" [47mm](E)· 15-9/16" [395mm](E) 60-9/16" [1539mm]-50-3/4" [1290mm] 45-7/8" [1165mm] 7-5/16" [185mm] •43-1/2" [1104mm] 47-9/16" 1208mm PLUMBING KIT 43-13/16" [1113mm] -23-3/8" [594mm 61-11/16" [1567mm]

4-6-3/4" 171mm 27-11/16" 703mm

44-5/16" [1126mm]

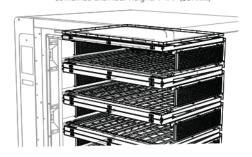


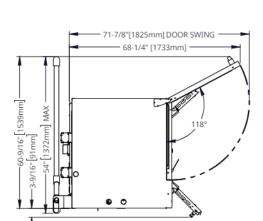


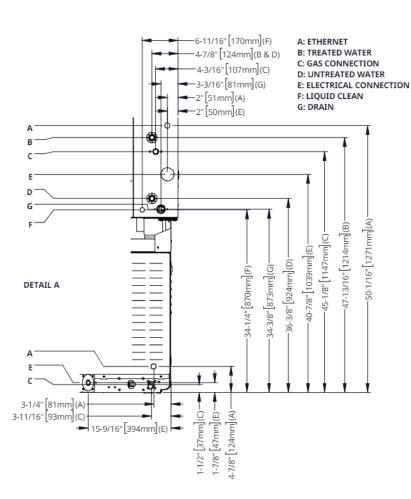
CV3

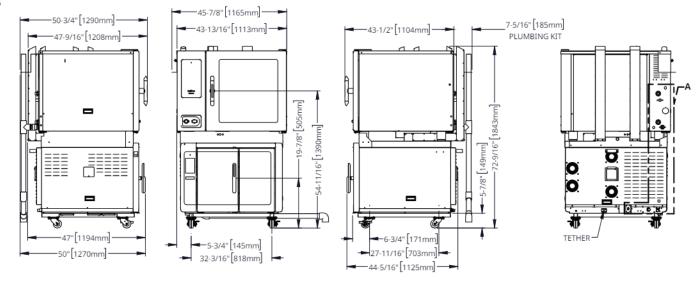
7-20 Pro over F3

Chamber width: 26-1/4" (667mm)
Chamber depth: 20-5/8" (525mm)
Chamber height with wire shelf: 3-3/4" (94mm)
Chamber height: 4-1/4" (108mm)
Combined chamber height
with wire shelf: 10-5/8" (269mm)
Combined chamber height: 1-1/4" (287mm)









Configurations

Individual Details



Prodigi 7-20

Configuration for Electric Models (select one)

- Turbo (Increased energy usage for quicker preheat and recovery times)
- ECO (Designed for energy conservation—reference power requirements)

Configuration for Gas Models (select one)

□ Natural gas
□ Propane

Electrical

- ☐ 120V 1ph (Gas only) ☐ 208—240V 1ph (Gas only)
- □ 208-240V 3ph □ 440-480V 3ph

Door swing

- □ Right hinged
- ☐ Recessed door, optional (not available with Ventech hood)

ChefLinc connection

□ Wi-Fi (standard)
□ Ethernet (optional)

Options (select all that apply)

- ☐ CombiSmoke® feature—smoke hot or cold with real wood chips (not available on units with hoods or units with security devices)
- □ Automatic grease collection system

Cleaning

- □ Automatic tablet-based cleaning system (standard)
- ☐ Automatic liquid cleaning system (optional)

Probe choices

- ☐ Removable, quick-release, T-style probe (PR-37158) (standard)
- ☐ Removable, single-point, sous vide probe (PR-36576) (optional)
- ☐ Removable probe with stop for grease collection [5035704]

Water treatment

□ RO System OPS175C R/5 (5031203)

Extended warranty

☐ One-year warranty extension

Installation options (select one)

- ☐ Alto-Shaam Combination Factory Authorized Installation Program available in the U.S. and Canada only
- ☐ Installation Start-Up Check available through an Alto-Shaam authorized service agency

Copper Installation kits Base kit selection on amp draw found in electrical table

Electric

- □ 20A (5026970)
- □ 30A (5026932)
- □ 40A [5026972]
- □ 50A (5026973)
- □ 80A [5026974]
- □ 125A [5026977]
- □ 175A (5026978)
- □ 200A (5026979)

Gas

- □ 20A (5026980)
- □ 30A (5026933)

CPVC Installation kits

Base kit selection on amp draw found in electrical table

Electric

- □ 20A (5021521) □ 125A (5021529)
- □ 30A (5021519) □ 150A (5021530)
- □ 40A (5021525) □ 200A (5021531)
- □ 50A [5021526] □ 250A [5021531]
- 80A [5021527]

Gas

- □ 20A (5021522)
- □ 30A (5021520)
- □ No cord (5021524)

Vector F

Control

□ Deluxe

Configuration for Gas Models (select one)

□ Natural gas
□ Propane

Electrical

- □ 208–240V, 3PH, no cord, no plug
- ☐ 120V, 1PH, 60Hz (Gas only) ☐ 208–240V, 1PH, 60Hz (Gas only)

ChefLinc connection

- □ Wi-Fi (standard)
 □ Ethernet (optional)
- □ Probes

See accessories catalog for additional probe options

☐ Removable, single-point, quick-release, temperature probe [PR-35770]

Cookware

See accessories catalog for all available accessories

- □ Wire rack (SH-39201)
- ☐ Jet plate assembly [5029754]

Cleaning

- ☐ Alto-Shaam non-caustic oven cleaner, one [1] 32 oz. bottle [CE-46828]
- ☐ Alto-Shaam non-caustic oven cleaner, case of six [6] bottles [CE-46829]

Grease filters

- ☐ Grease filter, air return, side [1023771]
- ☐ Grease filter, air return, back [1023741]
- ☐ Grease filter kit, includes two [2] side and one [1] back, [5027120]

Accessories (reference accessory catalog)





Heat of rejection — electric ovens

	Heat Gain qs, BTU/hr	Heat Gain qs, kW
7-20E	1,305	0.38
VMC-F3	1,802	0.53
VMC-F4	2.391	0.71



Heat of rejection - gas ovens

	Heat Gain qs, BTU/hr	Heat Gain qs, kW
7-20G	549	0.16
VMC-G3	2,074	0.61
VMC-G4	1,555	0.46



Noise emissions

Without hood system, a maximum 67 dBA was measured at 3.3 ft [1 m] from unit.

With hood system, a maximum 81 dBA was measured at 3.3 ft (1 m) from unit.

7-20 Utilities

7-20E

208-240V

440-480V





18.3

21.8

3Ø/PE

3Ø/PE

30

35

• Electrical
connections
must meet
all applicable
federal, state, and
local codes

With Smoker Option						ECO			Turbo Optlor		
7-20E	V	Ph	Hz	AWG	Α	Breaker	kW	Α	Breaker	kW	Connection
208-240V	208	3	50/60	4	48.2	50	17.0	61.2	70	19.7	3Ø/PE
	240	3	50/60	3	55.6	60	22.6	70.6	70	26.2	3Ø/PE
440-480V	440	3	50/60	8	21.9	30	16.2	27.3	30	18.8	3Ø/PE
	480	3	50/60	8	23.8	30	19.2	30.0	35	22.3	3Ø/PE

25

25

15.7

18.7

265

28.8

- Ovens are not supplied with an electrical cord or plug.
- For CE models use a Type B current protection device that accommodates a leakage current of 30mA.

Ph

3

3

3

3

208

240

440

480

Hz

50/60

50/60

50/60

50/60

AWG

4

3

8

8

Α

45.7

52.7

20.6

22.4





						Without Smoker Option			With 9	Smoker Op			
	7-20G	٧	Ph	Hz	AWG	Α	Breaker	kW	Α	Breaker	kW	Connection	
†	120V	120	1	60	12	6.8	20	0.84	12.0	20	1.5	1Ø/PE	
†	208-240V	208	1	50/60	14	4.8	15	1.0	7.3	15	1.5	1Ø/PE	
		240	1	50/60	14	4.2	15	1.0	7.1	15	1.7	1Ø/PE	
†	208-240V	208	3	50/60	14	4.8	15	1.0	7.3	15	1.5	3Ø/PE	
		240	3	50/60	14	4.2	15	1.0	7.1	15	1.7	3Ø/PE	

 \dagger Per UL requirements, must be permanently connected to electrical supply source.



Gas Requirements Gas type must be specified on order

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	Maximum Fuel Consumption*		
			(kPa)	WC (kPa)	CFH	GPH	
Natural Gas	98,000	80,000	14.0 (3.5)	5.5 (1.1)	93.3	N/A	
Propane	98,000	68,000	14.0 (3.5)	9.2 [2.8]	39.2	1.1	

^{*}Assumes an average heating value for natural gs 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.



Water requirements (per oven)

Two cold water inlets - drinking quality

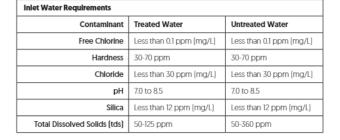
- One treated water inlet: 3/4" NPT male connection.
 Line pressure 200 kPa minimum dynamic and 1000 kPa maximum static at a minimum flow rate of 1 L/min.
- One untreated water inlet: 3/4" NPT male connection. Line pressure 200 kPa minimum dynamic and 1000 kPa maximum static at a minimum flow rate of 10 L/min. Water drain: 40mm connection with a vertical vent to extend above the exhaust vent. Materials must withstand temperatures up to 93°C.

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. Noncompliance with these minimum standards will potentially damage this equipment and/or components and void the original equipment manufacturer's warranty. Alto-Shaam recommends using the Alto-Shaam Reverse Osmosis System to properly treat your water.



Clearance requirements for water filtration system Do not install a water filtration system behind unit.



[•] For use on individual branch circuit only.

^{*}No-cost option on electric models.

Vector F Utilities



VMC—Electric



VMC-F3E	V	Ph	Hz	Awg*	Α	Breaker (A)*	kW	Plug Configuration**
208-240V	208	3	60	8	31	50	11.5	No cord, no plug
	240	3	60	8	35	50	15.0	No cord, no plug
VMC-F4E								
208-240V	208	3	60	6	41	60	15.2	No cord, no plug
	240	3	60	6	46	60	19.9	No cord, no plug

^{*} Electrical connections must meet all applicable federal, state, and local codes.

VMC—Gas



	V	Ph	Hz	kW	Α	AWG	Breaker	Plug configuration
VMC-F3G	120	1	60	1.5	12.7	12	20A	No plug; hard wire only
	208-240	1	50/60	1.7	8.3	14	20A	No plug; hard wire only
VMC-F4G	120	1 60 2.0 16.5 12		12	20A	No plug; hard wire only		
	208-240	1	50/60	1.4	10.6	12	20A	No plug; hard wire only

Gas Connections and Pressures:

Gas Requirements (gas type must be specified on order)

3/4 NPT Gas connections must meet all applicable federal, state and local codes.

Nat gas: 14" w.c. max. static* / 5.0" w.c. min. dynamic Propane: 14" w.c. max. static* / 9.0" w.c. min. dynamic

* Minimum static pressure must maintain dynamic fuel pressures with all burners firing at maximum BTU/hr fuel consumption

VMC-F3G Nat. gas 72,000 BTU/hr; Propane 72,000 BTU/hr VMC-F4G Nat. gas 96,000 BTU/hr; Propane 96,000 BTU/hr

16

16

7

7

8



- The ovens must be installed level.
- The ovens must not be installed in any area where they may be affected by steam, grease, dripping water, high temperatures, or any other severely adverse conditions.
- Exhaust hood required.
- Not intended for built-in installation.
- Drain must not be located directly underneath the ovens.



Top: 20" [508mm] Left: 0" (0mm)

18" (457mm) recommended service access

Right: 0" (0mm) non-combustible surfaces 2" (51mm) combustible surfaces

Bottom: 5-1/8" [130mm]

Back: 4" (102mm) between plumbing and

nearest object



7-20

VMC-F4

FULL-SIZE PANS: 20" x 12" x 2-1/2" GN 1/1: 530 x 325 x 65mm GN 2/1: 530 x 650 x 65mm FULL-SIZE SHEET: 18" x 26" x 1"

FULL-SIZE PANS: 20" x 12" x 2-1/2" GN 1/1: 530 x 325 x 65mm

VMC-F3

GN 2/1:	530 x 650 x 65mm	4
FULL-SIZE SHEET:	18" x 26" x 1"	4
FULL-SIZE PANS:	20" x 12" x 2-1/2"	6
GN 1/1:	530 x 325 x 65mm	6
GN 2/1:	530 x 650 x 65mm	3
FULL-SIZE SHEET:	18" x 26" x 1"	3

CONTACT US

W164 N9221 Water Street | Menomonee Falls, Wisconsin 53051 | U.S.A. Phone: 262.251.3800 | 800.558.8744 U.S.A./Canada | Fax: 262.251.7067 | alto-shaam.com

^{**} Canadian units include 6' [1829 mm] long flexible conduit with wires that protrude 6" [152 mm] outside of conduit.