



**CMA-180VL-FL (Front Loader)**  
 High Temperature  
 Single Rack Dishwasher

**New  
 "Ventless"  
 Heat Recovery  
 and  
 Condensation  
 Removal**



**FEATURES:**

- 75% less floor space than traditional Dishmachines (compact space-saving design) requires no entry or exit tables
- Requires only 7.1 square feet of floor space (door closed)
- Front loading door design provides optimal working height for easy loading and unloading of dishes
- Replaces need for independent Vent Hood
- Heat Recovery System captures hot water vapor from wash and rinse cycles, and condenses them to heat incoming cold water while efficiently evacuating steam from wash chamber
- Final Rinse Valve receives cold water (41-65° F) that is processed through a "Heat Recovery System" providing nearly cost-free heating capabilities for water supplied to the Booster Heater, which reduces the recovery time for the Booster Heater
- 170 second cycle (60 second wash/rinse and 110 second steam evacuation)
- 21 racks per hour/Standard 20" X20" racks
- ENERGY STAR water-saving design (0.89 gals of water per cycle)
- Water level safety control
- Wash tank screens filter recirculating wash water, preventing soil from clogging Spray Arms
- Safe-T-Temp feature assures 180°F sanitizing rinse every cycle
- 6kW Wash Tank Heater
- 12kW Electrical Booster Heater
- Booster-safety thermostat
- Large 16" dish clearance
- Interchangeable components compatible with other CMA products
- Rinse Pressure Regulating Valve (PRV)
- Automatic Heat Exchanger Condenser and Wash-down feature
- FREE (1ea) Peg and Flat Rack
- Dual-power Supply Connections
- Door Safety Interlock
- NSF/UL/ENERGY STAR Certified

**The "Ventless" option is a Heat Recovery Condensation Removal System:**

Captures and distributes normally exhausted heat from the wash/rinse tank, using this FREE energy to pre-heat cold water prior to feeding the booster heater. Water entering the booster heater has been pre-heated, reducing the energy cost to bring booster temperature to required 180 degrees, potentially saving THOUSANDS of \$dollars\$ in operating costs.

**NO VENT HOOD REQUIRED: Saves THOUSANDS \$ on installation.**



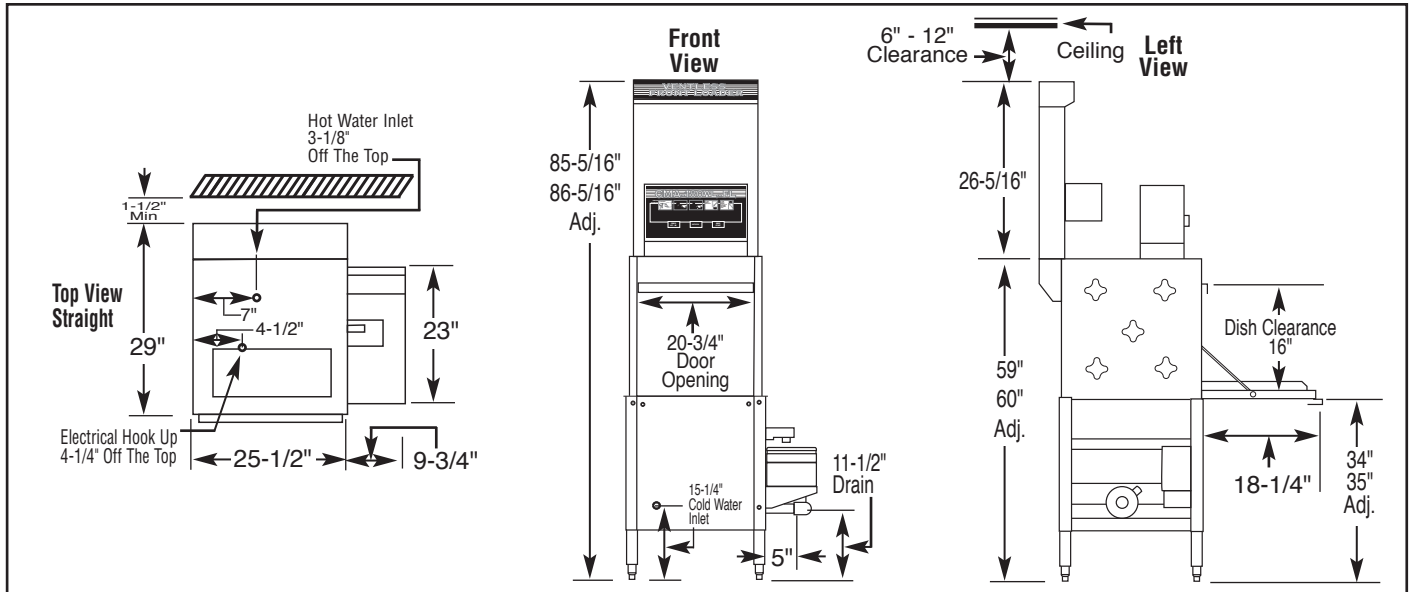


# CMA-180VL-FL (Front Loader)

High Temperature  
Single Rack Dishwasher

### WARNINGS:

- Plumbing connections must be made by a qualified service company who will comply with all available Federal, State, and Local Health, Plumbing and Safety codes.
- CMA recommends utilizing a water softening system to maintain water hardness measurements of 3.5 gpg (grains per gallon) or less. This will assure maximum results and optimum operation of the dishwasher.



### Specifications:

MODEL CMA-180-VL-FL	USA	METRIC	USA	METRIC
<b>WATER CONSUMPTION</b>				
PER RACK (MAX)	.89 GAL	(3.37 L)		
PER HOUR	19 GPH	(72 L)		
<b>OPERATING CYCLE</b>				
WASH TIME - SEC.	48	48		
RINSE TIME - SEC.	12	12		
STEAM EVACUATION	110	110		
TOTAL CYCLE	170	170		
<b>OPERATING CAPACITY</b>				
RACKS PER HOUR	21	21		
<b>WASH TANK CAPACITY</b>	8 GAL.	(30.3 L)		
<b>PUMP CAPACITY</b>	52 GPM	(197 LPM)		
<b>WATER REQUIREMENTS</b>				
COLD WATER	41-65°F	(5°C-18°C)		
HOT WATER	120°F -140°F	(49°C - 60°C)		
DRAIN CONNECTION	2"	(5.1cm)		
RINSE PRESSURE SET	20 ± 5psi	(1.41 kg/cm <sup>2</sup> )		
HOT WATER INLET	1/2"	(1.3cm)		
COLD WATER INLET	1/2"	(1.3cm)		
<b>OPERATING TEMPERATURE</b>				
WASH-°F (MIN)	155°F-160°F	(68°C-71°C)		
RINSE-°F (MIN)	180°F-195°F	(82°C-90°C)		
<b>HEAT LOAD TO ROOM (BTU/HR)</b>				
	LATENT 9,280			
	SENSIBLE 5,060			
<b>WASH PUMP MOTOR HP</b>	1	1		
<b>DIMENSIONS</b>				
DEPTH	29"	(76.7cm)		
WIDTH (OUTSIDE DIMENSION)	25-1/2"	(65cm)		
HEIGHT	85-5/16"-86-5/16"	(216-217cm)		
STANDARD TABLE HEIGHT	34"	(86.3cm)		
MAX CLEARANCE FOR DISHES	16"	(43.2cm)		
MINIMUM FAN CLEARANCE	6"	(15.2)		
DRAIN CONNECTION (OFF FLOOR)	11-1/2"-12-1/2"	(29-32cm)		
<b>STANDARD DISHRACK</b>	1	1		
DIMENSIONS	19-3/4" X 19-3/4"	(50X50cm)		
<b>ELECTRICAL RATING</b>	<b>VOLTS</b>	<b>PHASE</b>	<b>AMPS</b>	
	208	1	78	
<b>INCLUDES</b>	240	1	88	
<b>REQUIRED 12kW</b>	208	3	49	
<b>BOOSTER</b>	240	3	55	
	480	3	25	
<b>APPROXIMATE SHIPPING WEIGHT</b>				
	520#			(236kg)

### Summary Specifications: Model CMA-180-VL-FL

The model CMA-180-VL-FL single tank, high temperature dishwasher is designed for years of trouble free service, producing sparkling results while conserving energy, water and chemicals. This machine is supplied with a built-in 12 kW booster heater required for "Ventless" feature to function. Unique soil purging system filters wash water and plate debris into an external tray. The CMA-180-VL-FL is NSF, UL, and CUL approved. Constructed entirely of stainless steel.

**Advisory:** CMA does NOT endorse "Tankless On-Demand" water heaters for use on CMA Dishmachine products. CMA DOES endorse, and highly recommends, the standard "tank" style water heaters, sized properly to handle each particular facility with their water heating requirements.



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CMA reserves the right to modify specifications or discontinue models without prior notification.

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