

# TWO COMPARTMENT, PRESSURELESS, STEAM COIL BOILER, 24" WIDE CABINET BASE DESIGN

Project \_\_\_\_\_  
 Item \_\_\_\_\_  
 Quantity \_\_\_\_\_  
 FCSI Section 11400 \_\_\_\_\_  
 Approved \_\_\_\_\_  
 Date \_\_\_\_\_

Classic Series Convection Steamers, 15 PSI Boiler Base Style

## Models

- 24-CSM



- Durable 14 Gauge Stainless Steel Construction: For Steam Cooking Cavity.
- Separate Main Power Switch for "On/Off"
- Exclusive Steam Cooking Distribution System: The exclusive Convection Jets produce a high velocity convection steam without fans. Coved Corner design in cooking compartment distributes heat evenly and is easy to keep clean. Creased top & bottom enhance drainage. Cold Water Condenser for each compartment maintains a dry steam. Fully insulated cooking compartment for thermal efficiency. Removable Stainless Steel Slide Racks for easy cleaning.
- Exclusive "Cool to the Touch" Compartment Door Design: Free floating inner door with reversible door gasket provides an air tight seal. Stainless Steel Slam/Latch mechanism provides greater reliability.
- Left Hand Door Hinging: Compartment Doors hinged left, controls on the right.
- Modular Cabinet Base with Hinged Door.
- Steam Coil Boiler: Automatic Water Fill on start up. Minimum 35 psi incoming steam pressure required with a 3/4" steam line.
- Automatic Boiler Drain at shutdown: Contains a "Water Jet" Spray Rinse Cleaning Cycle to keep drain clear.
- Automatic Water Level Control System with Low Water Power Cut-off Circuit.
- Steam boiler equipped with High Limit Pressure Safety Switch, 15 psi Safety Valve, and Steam Boiler Pressure Gauge.
- NSF Certified 6" Stainless Steel Legs with adjustable flanged feet for a one inch level adjustment.
- Standard Voltage for Controls: 115 volts, 60 Hz, single phase.
- All Controls are serviceable from the front.
- Compartment Door Steam Shut Off Switch (SCS)

## Short Form Specifications

Shall be Two Compartments, CLEVELAND Convection Steamer, Model 24-CSM, Steam Coil Steam Boiler, 115 volts, single phase. Solid State Controls operate timing, water level and safety functions. Steam Boiler with Automatic Water Fill on start-up and Automatic Blowdown with additional Manual Drain Valve. For each cooking compartment: 60 minute Mechanical Timer, Manual Operation Mode and Cold Water Condenser. Type 304 Stainless Steel cooking compartment.

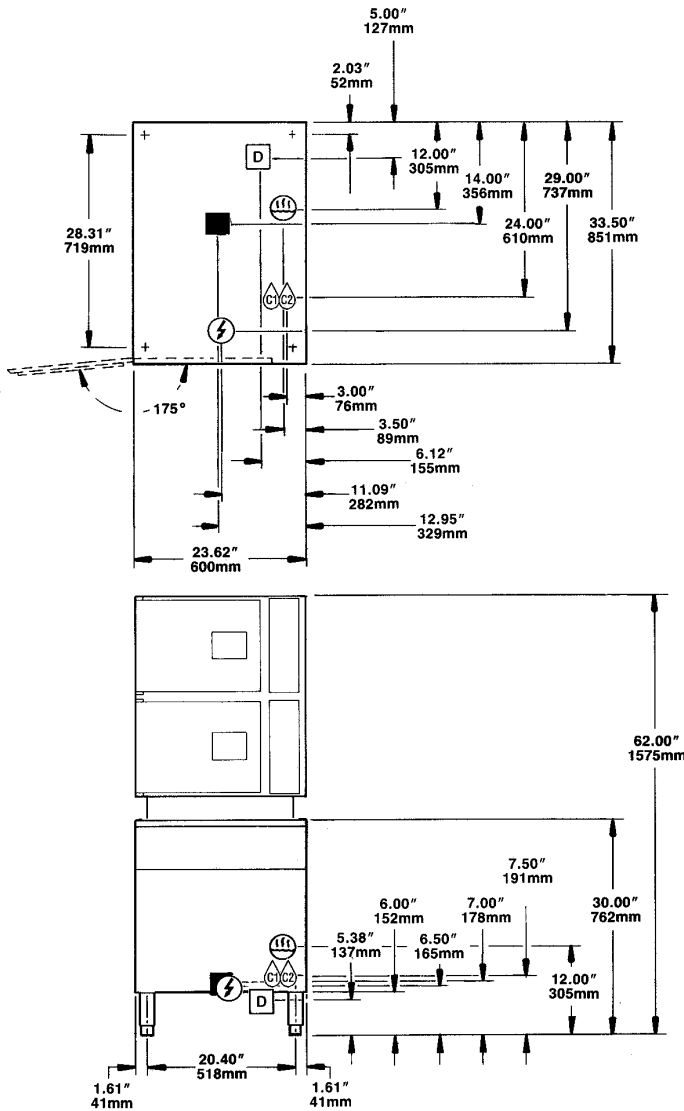
## Standard Features

- Cooking Capacity for up to six 12" x 20" x 2 1/2" deep Cafeteria Pans.
- Pressureless cooking with forced convection steam, permitting doors to be opened while cooking continues.
- Solid State Controls operate water level and safety functions.
- Each compartment is equipped with a 60 minute mechanical timer, separate bypass switch for constant steaming and a cold water condenser for superior cooking results.
- Instant Steam Standby Mode: Holds boiler at steaming temperature. Allows unit to start cooking instantly.

## Options & Accessories

- Cafeteria pans in depths of 1", 2 1/2", 4" and 6"
- Additional Power Reducing Valve (PRV)
- Moisture Separator Trap (MS)
- Correctional Packages
- Boiler Descaling Pump Kit (107142)
- Water Filters

KE004046-114


**COMPARTMENT HAS CAPACITY FOR:**

- Three, 12" x 20" x 2 1/2" deep Cafeteria Pans

**WATER QUALITY REQUIREMENTS  
(Boilers, Generators)**

TTDS:	50-250 ppm
Hardness:	50 - 200 mg (3 - 12 gpg)
pH value:	7.0 - 8.5
CL (Chloride):	max 50 ppm
Cl <sub>2</sub> (free chlorine):	max 0.1 ppm
SiO <sub>2</sub> (silica):	max 13 ppm
NH <sub>2</sub> Cl: (mono-chloramine)	max 0.1 ppm
Total Alkalinity:	50 - 100 ppm

**SHIPPING WEIGHTS  
& DIMENSIONS**

Weight	Width	Depth	Height
635 lbs	30"	43"	68"

**NOTE:** When ordering optional reverse door openings:  
Control Panel, door openings, cooking compartments and clearances are opposite that shown.

STEAM COIL (SC)	WATER (W)	DRAINAGE (D)	ELECTRIC (E)	CLEARANCE
Steam Supply Piping: • 3/4" IPS minimum for 35-50 psi • For pressures above 50 psi, a Pressure Reducing Valve must be specified.	1/4" NPT Cold Water Inlet 35 psi minimum 60 psi maximum (C) Condenser feed (C) Boiler feed	The Floor Drain must be located outside the confines of the equipment base. 1 1/2" IPS common drain. Do not connect other units to this drain. Do not use PVC pipe for drain. Condensate Return Drain Line 3/4" IPS. Do not connect to common drain.	115V-1 PH 25 watts per compartment. 25 watt Steam Generator Control.	Right - 3", Left - 3", Rear - 3" (12" on control side if adjoining wall or equipment is over 30" high for service access) Contact factory for variances to clearances.

**NOTES:**

Cleveland Range reserves right of design improvement or modification, as warranted.  
 Many regional, state and local codes exist and it is the responsibility of the owner and installer to comply with the codes.  
 Cleveland Range equipment is built to comply with applicable standards for manufacturers. Included among those approval agencies are ASME/N. Bd, UL, NSF and CSA.

(NOT TO SCALE)