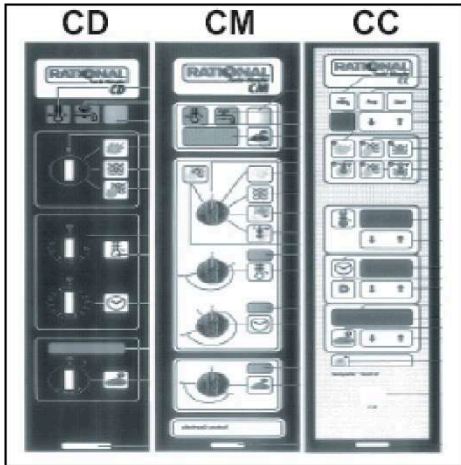# An Elaborated & Simply COMPLICATED History Lesson on Oven Models until 2011

*This document created by ECtofix.  Accuracy based on his own research, so can't be fully guaranteed.*

## 1st Generation:  *Classic-Line* (produced 1976-1997)

Having invented the combi-steamer, these were Rational's first ovens.  The "**C**" stood for "**C**ombi".  The different 2nd letters denote the three different model-series, from the most basic and up to the most advanced ovens:

**CD** - (for **C**ombi-**D**ämpfer [German for steam]) 1st model, marketed in 1976.  However, think of the "**D**" as standing for "dial" due to the basic controls (rotary switch, mechanical thermostat, motorized timer, etc.).  Only the meat probe is digital.  Otherwise, just light bulbs for all other indications.
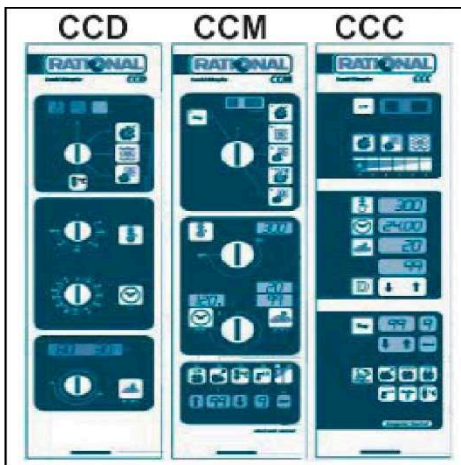
**CM** - (for **C**ombi-**M**aster) New in 1986.  More electronics.  LED temperature/time displays.  Dial-operated controls.  Added a 4th cooking mode.  Not yet programmable.

**CC** - (for **C**ombi-w/**C**omputer) New in 1990.  Touchpad button controls.  LED displays.  Programmable to 50 cook cycles w/6 cooking steps.

*These ovens never came to the U.S.  Yet, the Technical Reference CD-ROM combines these ovens with the **C-Line** ovens (below).  Remember to distinguish the two when researching.*

## 2nd Generation:  *C-Line* (produced 1993-1997)

The design put greater emphasis on controlling the cooking "climate", so another "**C**" was added as a prefix for "**C**lima-".  Their prior "CD" model oven then became the "**CCD**" oven (for **C**lima-**C**ombi-**D**ial) and so forth.  The new name brought some upgrades to the three in the model-series:

**CCD** - Not much functionally different than its predecessor – the CD.  A slightly different appearance.
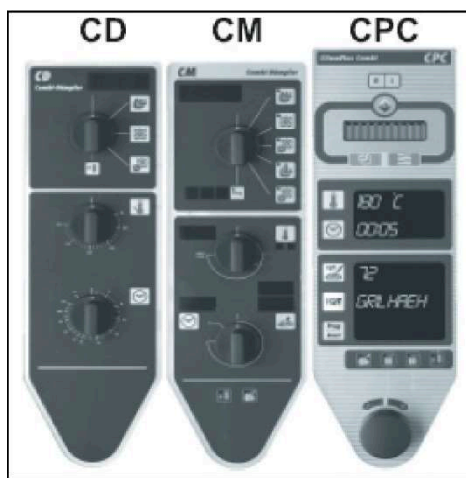
**CCM** – MANY improvements over the CM.  Buttons and LEDs added for the additional cooking modes.  A 2-speed fan, ½ energy selection and programmable for up to 99 recipes w/9 cooking steps.  More control over humidity level in the cooking compartment.  Semi-automatic humidity control.

**CCC** – All attributes of the CCM, but with all button controls, more LED displays, Delta-T cooking added. Six levels of fully-automatic humidity control.

*Parts manuals & schematics for C-line ovens only cover 400vac units.  Technical information from their CD-ROM provides some vaguely adequate troubleshooting information.*

## 3rd Generation:  *CPC-Line* (produced 1997-2004)

Advancements in technology brought a complete redesign of Rational oven controls. First ovens with product specific regulation of the cooking cabinet climate. Digital panel controls became more streamlined and simplified.  The control panel got a cleaner look.  A distinctive, rounded "point" at the bottom of the panel when compared to older ovens.  They dropped the extra "C" from the model numbers the C-line had:



**CD** – Still their most basic oven, which became even more basic.  The meat probe was removed.

**CM** - Solid-state relays replaced contactors for control of heating elements.  Five cooking modes, plus a water spritz for baking.  Programmable cooking w/ meat probe.  Better diagnostics & function tests for troubleshooting.

**CPC** - Infinitely variable steam control (0 to 100%).  A dial for time/temp settings.  New technologies and innovations brought numerous mid-production changes to these ovens, leading to four versions.  Upgrades included the IQT-logic (5-point-sensing meat probe), the CleanJet feature, the CDS monitor system & VFD motor controls.

## 4th Generation:  *SCC-Line* (produced 2004-2011)

The **SCC** (**S**elf-**C**ooking **C**enter) emphasizes cooking control w/more ease. Incorporates more structurally fluid lines on the control panel.  Cabinet is smaller.  Inside, the fan motors changed from AC to brushless DC.  Controls became even more computer-based.  The basic **CD**- model-series was removed from the line-up.



**CM** - More programmable than previous CMs.  Many updated components on the inside.  Hand shower optional.

**SCC** - As their new high-end model, when compared to the CC, CCC or CPC - MANY revisions in user & technician interface. LED-displayed graphic icons. Pre-programmed cook cycles organized by product category. A mid-production upgrade brought the CareControl feature, combining the CleanJet process with a new method to do a light descaling of the steam generator.

*SCCs that are version "E" (5th digit of serial number) are CleanJet ONLY.  Version "G" ovens have the CareControl.  CM ovens didn't have those features, so oven cleaning and generator deliming had to be performed manually.*