

## CE Series

Hood dishwashers



# 5 good reasons to choose the CE Series

## 1 Economy

While waiting for the rack to be loaded, CE series hood dishwashers heat the water to a temperature lower than the setting to allow considerable energy saving. They are also equipped with an ECO programme to reduce the consumption of rinse water, detergent and electricity.

## 2 Performance

The RCD (Rinse Control Device) guarantees optimal rinsing even when the main pressure changes. When the machine is connected to a cold water system, the QHS (Quick Heating System) uses hot water from the built-in boiler to fill the wash tank reducing the initial heating time.

## 3 Hygiene

One piece deep drawn tank with rounded corners to prevent the accumulation of dirt. A self-draining pump, the absence of internal pipes and a self-cleaning function provide optimal cleaning at the end of each working day.

## 4 Reliability

An easy-to-read electronic circuit board provides details of the operating status. 24/7 online service available, enabling the user to view diagrams and spare parts.

## 5 Quality

Machines built in a plant operating with an ISO 9001:2008 certified quality system and an ISO 14001:2004 environmental system management certification.



COMENDA



# CE Series

## hood dishwashers



C800EHR RCD



C1000E RCD



C1300E RCD CRC2



XLC RCD

### THE RANGE

The high-tech systems featured in CE dishwashers guarantee excellent performance, hygiene, reliability and low consumption. The HAC electronic control is used to select the QHS and adapt the washing programme to the user's requirements. The electronic control panel with backlit button displays the operating status along with digital display showing working temperatures as well as any possible alarm in self-diagnosis mode. ECO cycle with reduced water, electricity and detergent consumption, available for moderately dirty dishes.

The vertically installed pump is self-draining to prevent dirty water collecting inside. Double skin wash tank, reducing heat loss.

Optional double skin thermal and acoustic insulation hood available on all models. Machines suitable for in-line or corner installation.

### C800EHR RCD

Along with a built-in drain pump this model features an HR washing system with partial drain and state-of-the-art electronic devices. An intuitive digital interface controls and shows the machine status and the water temperature. There are four partial discharge washing programmes that reduce the amount of dirt in the water because, prior to rinsing, some of the solid residue in dirty water is retained by a special Dynamic filter.

### C1000E RCD AND C1300 RCD

Excellent results with the CE series classic hood type machines, featuring four wash programmable cycles - including drip-down function and final rinsing at 85°C - advanced front control digital panel with backlit cycle button which changes color according to the machine operating status and built in gravity wash pump. Optional built-in drain pump on request.

### XLC RCD

Thanks to its massive 650x500x540 mm washing chamber and powerful pump the XLC is a truly integrated system designed to wash GN 2/1 trays, containers, pans as well as plates, crockery, cutlery and glasses. Suitable for 24-plate XLP racks, the XLC features a 30% higher capacity compared to the standard 500x500 mm 18 plate racks. Efficient and versatile, the XLC can be integrated with inlet and sorting tables, top shelving and rack holders. Each of the 4 cycles can be set according to the user's needs, making a compact made to measure washing system possible.

# Applications



• Canteens



• Pubs



• Restaurants



• Hotels



• Hospitals

## ADVANTAGES

- **AISI 304 stainless steel frame, tank and panelling**
- **Double skin deep drawn tank and self-draining pump**
- **Self-diagnosis function with coded messages**
- **HPS: HACCP data acquisition ready**
- **Independent set of wash, pause and rinse times, and temperature for each programme**
- **Electronic control panel with digital display and multifunction key, showing different colours to indicate machine status (heating, ready, running)**
- **Upper ergonomic control panel** available on request
- **Automatic cycle start** when hood is closed or button pressed
- **ECO cycle with reduced consumption of water, detergent and electricity**
- **Hood with drip channel and rear opening** to prevent steam blowing into the operator's face
- **Stainless steel upper and lower rotating wash and arms**
- **Atmospheric booster with RCD system**
- **Wash columns outside the wash chamber**
- **Removable rack** holders for easy cleaning
- **Self cleaning cycle**
- **QHS** reduces the initial heating time, using hot water from the built-in booster to fill the wash tank
- **Booster can be emptied during non-use periods**
- **Maximum hygiene:** the wash cycle if is prolonged the rinse temperature does not reach 85°C
- **Wash time adjustment to suit the customer's needs**
- **AB anti-backflow system on the hydraulic circuit**
- **CRC2 SYSTEM:** heat recovery device for energy saving



XLC RCD



# FEATURES and details

## C800EHR RCD



### UPPER PANEL

Upper ergonomic control panel, available on request (only with double skin hood).



### WASHING SYSTEM

Patented WRIS® washing system: through a double jet of water constantly acting on the dish surfaces, this system grants top washing results even with the utmost soil.



### TANK FILTERS

A flat filter covers the entire wash tank and a Dynamic filter cleans the water continuously, retaining all the dirt.



### ROUNDED EDGES

The washing chamber with rounded edges prevents the build up of soil and allows the housing of the vertical self draining pump.





### HOOD

The hood opens at the rear to prevent steam blowing into the operator's face. In machines equipped with CRC2, the hood facilitates extraction of the steam, which is then reused for heating the cold water, achieving a further energy saving.



### CLEARANCE

With 440 mm clearance allows bigger items to be washed.



### REMOVABLE RACK HOLDER

The rack holder is easy to remove to facilitate cleaning.



### CONTROL PANEL

The user a backlit button that changes colour according to the machine status: RED=heating, GREEN=standby, BLUE=washing, YELLOW=alarm.





# FEATURES and details

## CE & XLC



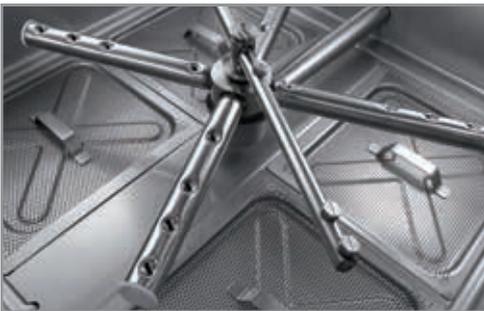
### UPPER PANEL

Upper ergonomic control panel, available on request (for CE only with double skin hood).



### WASHING SYSTEM

Easy to remove and easy to clean stainless steel wash arms with debossed jets.



### TANK FILTERS

The entire wash tank is covered by four flat stainless steel filters and one for the pump.



### ROUNDED EDGES

The washing chamber with rounded edges prevents the build up of soil and allows the housing of the vertical self draining pump.





## HOOD

The hood opens at the rear to prevent steam blowing into the operator's face. In machines equipped with a CRC2, the hood facilitates extraction of the steam, which is then reused for heating the cold water, achieving a further energy saving.



## CLEARANCE

Rack size is 500x500 mm with 440 mm clearance or extra large rack 500x600 mm with 540 mm clearance.



## REMOVABLE RACK HOLDER

The rack holder is easy to remove to facilitate cleaning.



## CONTROL PANEL

The user a backlit button that changes colour according to the machine status: RED=heating, GREEN=standby, BLUE=washing, YELLOW=alarm.



# Advanced TECHNOLOGY



## HAC electronic control

Machines in the CE series come standard with an HAC electronic control which allows reprogramming washing, pause and rinse times to best suit user's specifications. It also displays the washing cycle counter and QHS (Quick Heating System). The electronic control also has a self-diagnosis programme capable of identifying possible errors. Upper ergonomic electronic control available on request.

## HPS CONNECT (optional)

An advanced system, complementary to the HAC electronic control, which in the event of machine malfunction automatically sends an sms to the field engineer. The HAC electronic control also makes it possible – through an RS232 serial port – to send the parameters characterising the washing cycle underway and any alarms directly to a printer or PC, in compliance with HACCP data acquisition ready.

## 100% hygiene



### RCD

The RCD (Rinse Control Device) is an advanced system which uses an atmospheric boiler and a pressure booster pump to keep water pressure constant during rinsing phase, which is performed not only with mains water pressure but with rinse pump pressure. Furthermore the RCD keeps the temperature constant at 85°C throughout the entire rinse cycle. The system helps saving energy while guaranteeing hygienic results well above the standard.

## Green innovation and zero maintenance



### CRC2 heat recovery unit

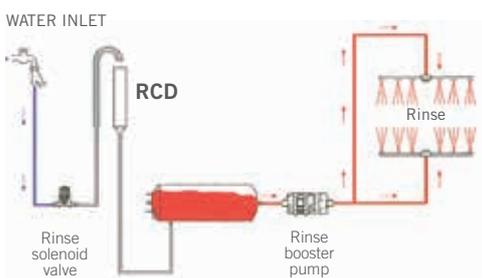
With the CRC2 system, steam produced in the machine during the washing cycle is both condensed and cooled down: the air is released into the environment at a lower temperature to ensure maximum operator comfort. A heat recovery device cuts energy consumption by 35%: the heat produced by the pot and utensil washer is used to heat up incoming water, permitting cold water connection, avoiding extra electrical load. The CRC2 system is little and ready-to-use.

## Quick and effective

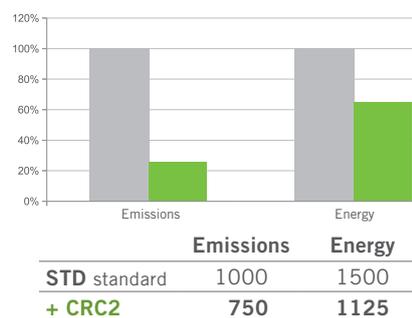


### Standalone Dryer

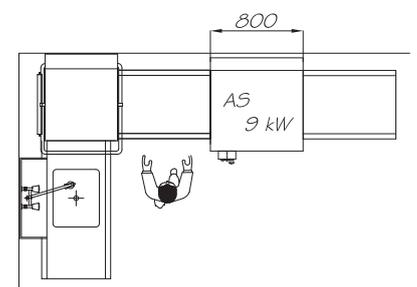
Need for dry dishes in a compact space? Comenda has designed the CE series to be fitted with a standalone drying tunnel, making a peculiarity of rack conveyor and flight type an optional on hood type machines to be installed on the exit table. The drying cycle starts automatically when the rack is inserted and its length can be adjusted as required. Such an innovative and useful solution for melamine trays, which need longer time to dry out.



Rinse cycle with RCD



C800E RCD Standard and with CRC2



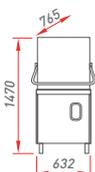
# Technical data

CE SERIES	C800EHR RCD	C1000E RCD	C1300E RCD	XLC RCD
wash cycle (secs.)	75-120-180-480	65-100-150-480	50-90-120-480	60-120-180-480
theoretical* max. output racks/h	48	55	72	40
<b>EXTERNAL DIMENSIONS</b>				
width (mm)	632	625	625	725
depth (mm)**	745	740	740	740
height with hood closed/open (mm)	1460/1900	1460/2000	1460/2000	1560/2100
height with CRC2 (mm)	1900	1900	1900	1995
<b>OTHER DIMENSIONS</b>				
rack dimensions (mm)	500x500	500x500	500x500	600x500
clearance (mm)	440	440	440	540
drain height (mm)	560	160	160	160
tank capacity (L)	21	42	42	42
rinse water consumption (L)	2,8/3,2	2,3/2,8	2,3/2,8	2,3/2,8
weight (Kg)	100	120	130	140
<b>POWER</b>				
wash pump (kW)	0,75	1,1	1,5	2,2
tank heater (kW)	2	3	3	3
boiler heater (kW)	9	9	9	9
total power warm water connection 55°C (kW)	9,75	10,1	10,5	11,2
total power cold water connection 15°C (kW)	14,75	15,1	15,5	16,2
total power CRC2 cold water connection 15°C (kW)	9,75	11,1	11,5	12,2
supply (V)	multipower	400V 3N~ 50Hz	400V 3N ~ 50Hz	400V 3N ~ 50Hz
<b>OPTIONAL AND DEATEILED</b>				
RCD	yes	yes	yes	yes
wash system	WRIS®	two arms wash assembly	four arms wash assembly	four arms wash assembly
sanitising system	yes	yes	yes	yes
rinse aid dispenser	yes	yes	yes	yes
detergent dispenser	optional	optional	optional	optional
CRC2 heat recovery unit cold water 15°C	optional	optional	optional	optional
drain pump	yes	optional	optional	optional
upper ergonomic control panel	optional	optional	optional	optional

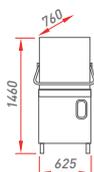
\* In case of consecutive washing, the duration of the cycle might increase to ensure proper rinse temperature.

\*\* depth with handle: 870 mm

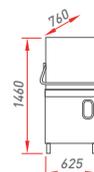
Technical variations reserved



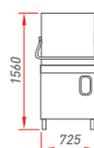
**C800EHR RCD**



**C1000E RCD**



**C1300E RCD**



**XLC RCD**



## ECO2: THE FORMULA FOR ENERGY SAVING

Comenda's philosophy is represented by a green petal defining the company commitment to research and application of hightech formulas which combine high performance with energy savings. ECO2 is the key to the entire production: eco-friendly solutions granting excellent results and a healthier working environment. This "green" philosophy also inspires the CE series: a vast range of washing systems that can adapt to a great variety of different needs, always guaranteeing top performance with very low operating costs and reduced water and detergent consumption. ECO2 accessories like the CRC2 heat recovery unit can be fitted to the CE machines achieving a higher energy efficiency and improved working conditions. Comenda have obtained the UNI EN ISO 14001:2004 environmental certification, tangible proof of the company's awareness of ecological issues.



## AFTER SALES SERVICE IN JUST A CLICK



Being a specialist in warewashing, Comenda provides outstanding innovative solutions and a complete and reliable after sales service. To provide its customers with the best possible real time support, Comenda offers - along with its wide network of high qualified technicians nationwide and worldwide - an easy to use online tool at [www.comenda.eu](http://www.comenda.eu) for online assistance and ordering spare parts. Authorised distributors access the website with their own password and consult the entire e-documentation and download instruction manuals as well as wiring, hydraulic and installation diagrams. Exploded views can be accessed in a few clicks and orders can be automatically sent directly to the spare parts office.



With a constant focus on innovation, Comenda has created an app for IOS and ANDROID systems. The app reads the machine's unique QRcode and allows you to access all the technical data relating to your model and manage the supply of replacement parts on your tablet or phone.



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Certified Company