



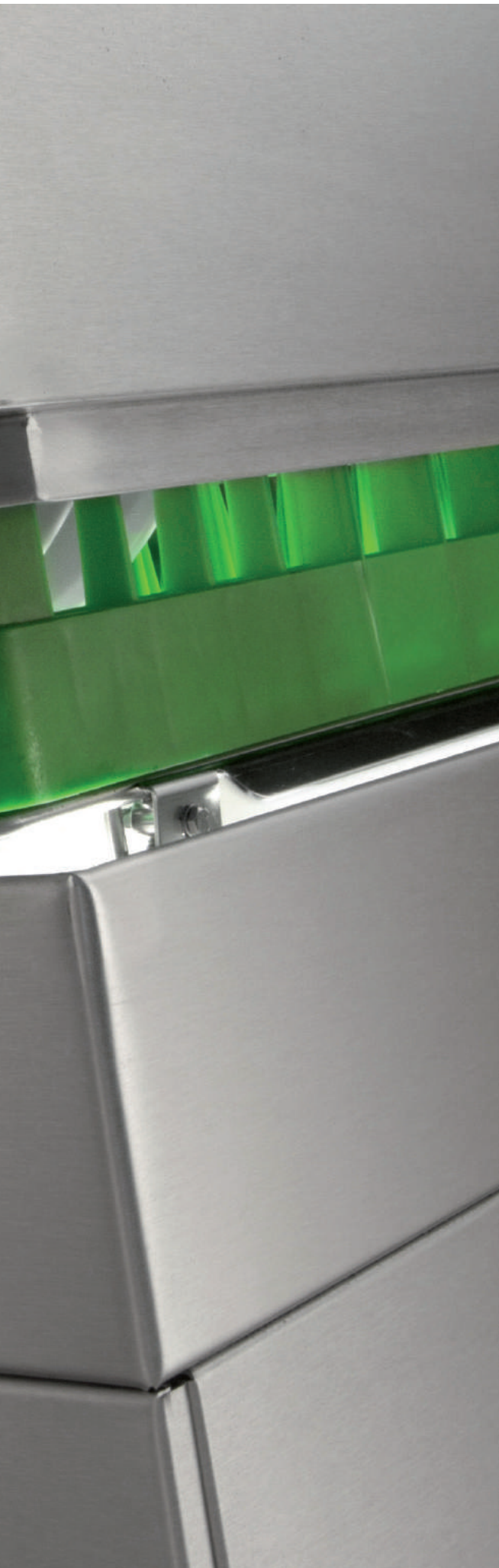
Prime
Hi-Line

UNDERCOUNTER GLASSWASHERS
UNDERCOUNTER DISHWASHING MACHINES
HOOD TYPE DISHWASHING MACHINES

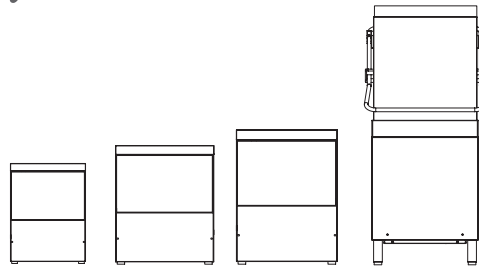




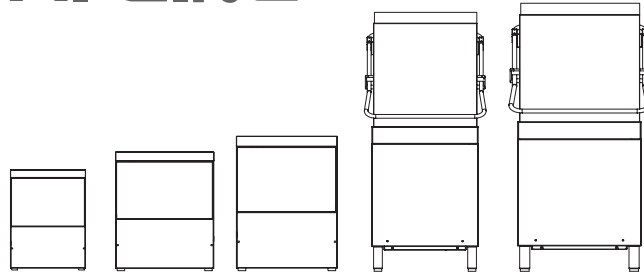
COMENDA



Prime



Hi-Line



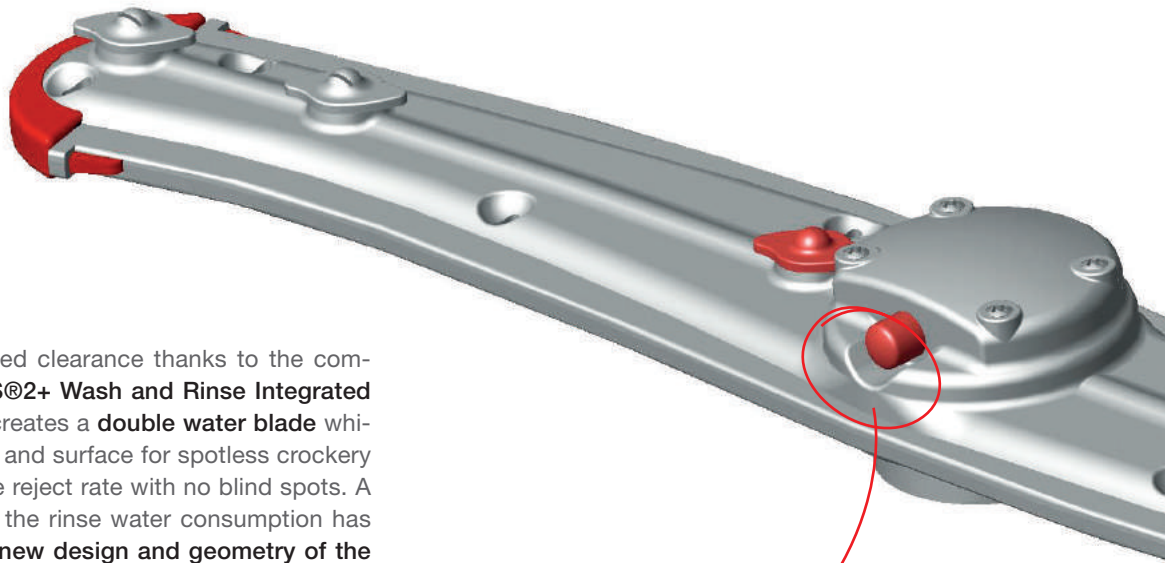
The new Prime and Hi-Line glass and dishwashing machines represent the synthesis between the latest in technology and a maniacal attention to details. Two different lines of products sharing a unique washing system for outstanding results. Prime Line stands for efficiency, consistency and cost effective solution for every type of business. Hi-Line for excellence and **technology at its best**. Versatile and easy to operate, Prime and Hi-line machines are the perfect solution for cafés, bars and pubs, restaurants as well as hotels and cafeterias. Outstanding washing results and a **remarkable reduction in water and energy consumptions** are granted by the patented WRIS®2+.

The Italian parent company of an International Group

As the parent company of the whole Ali Group, Comenda offers professional washing machines rigorously "Made in Italy" according to the highest quality standards. The company has quickly established itself among the industry leaders in Europe and the world, producing and marketing over 200 different solutions ranging from small-sized cup and glass washers for bars to large, automated, continuous feed systems for restaurants, hospitals, canteens and inflight catering. Its great operational flexibility also allows Comenda to supply tailor-made systems, designed to meet individual space and operation requirements, without any limits on processing capacity.

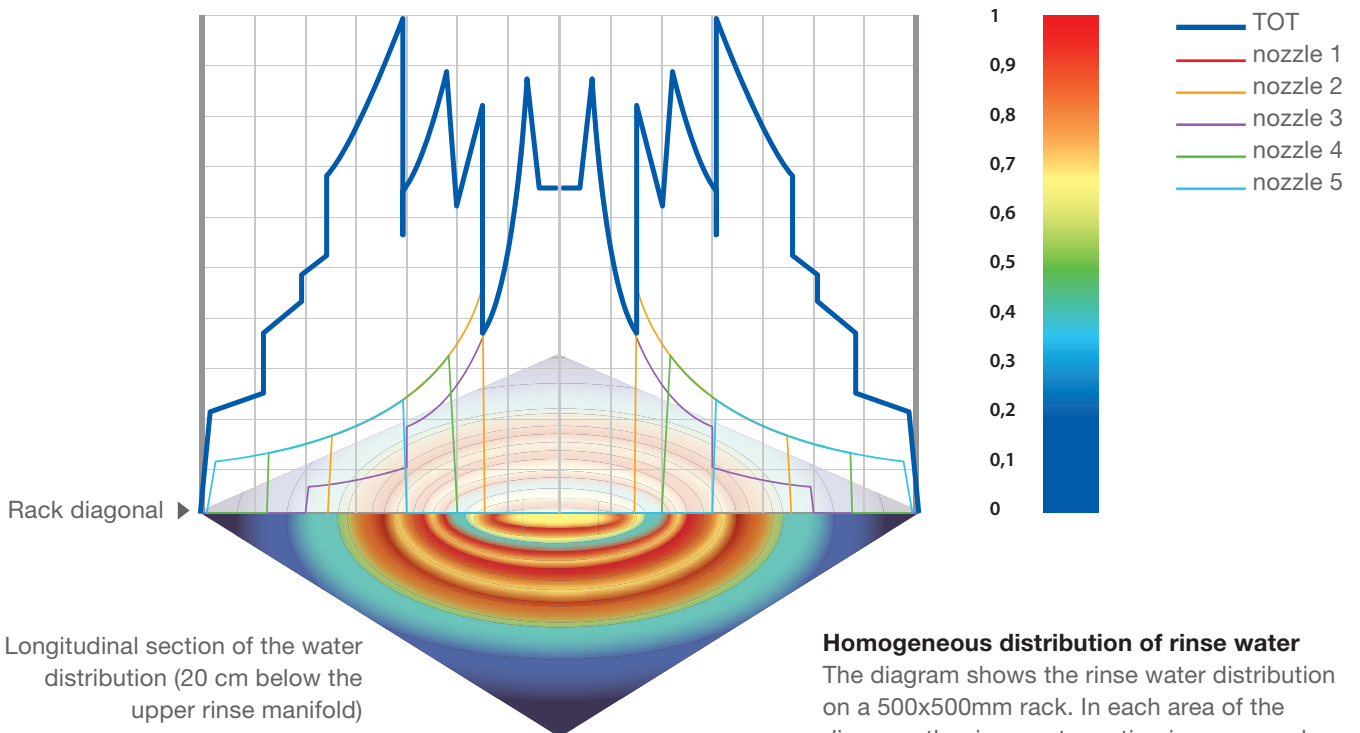


Ease of cleaning and increased clearance thanks to the compact design of the **new WRIS@2+ Wash and Rinse Integrated System**. The new WRIS@2+ creates a **double water blade** which increases the contact time and surface for spotless crockery and glassware, minimizing the reject rate with no blind spots. A remarkable 25% reduction in the rinse water consumption has been achieved thanks to the **new design and geometry of the rinse nozzles**, which allow an effective and efficient water distribution. The **quick release system**, the **removable side caps and nozzles** make the daily cleaning operations easier than ever. The new WRIS@2+ rotating wash and rinse arm has been designed for all Prime and Hi-line undercounter glass and dish washing machines, as well as for model PC07 - Prime Line passthrough glass and dishwashing machine.



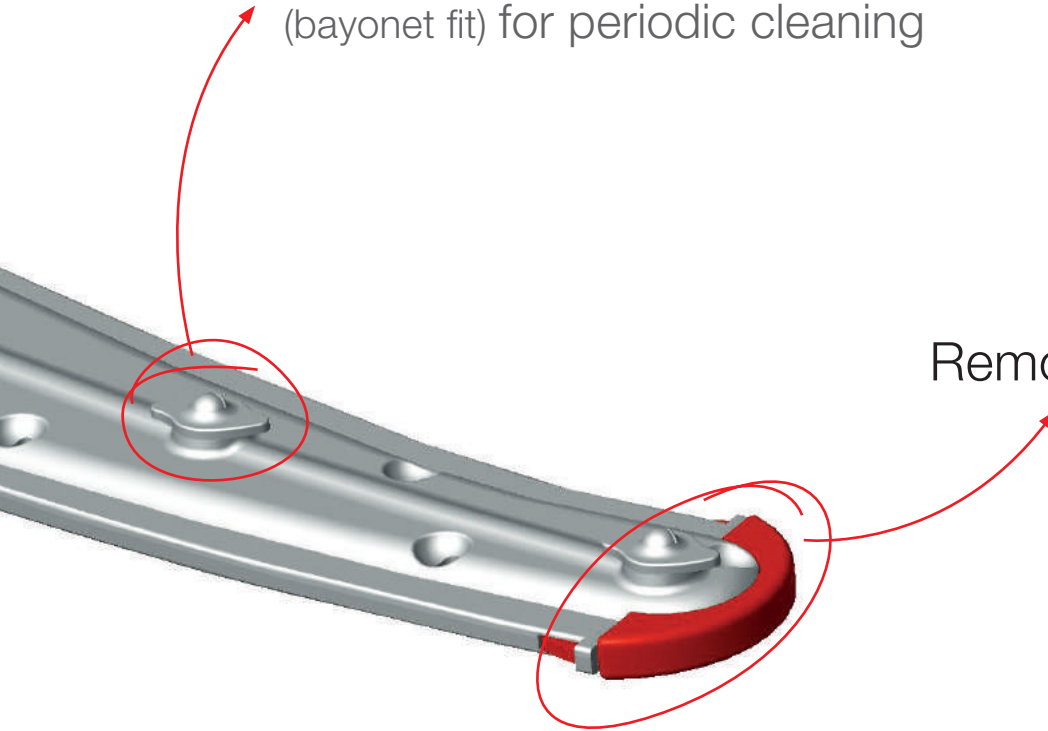
Quick release system for daily cleaning operations

Mathematical model of the water quantity (data normalization 0 to 1 range)



Homogeneous distribution of rinse water
The diagram shows the rinse water distribution on a 500x500mm rack. In each area of the diagram, the rinse water action is expressed as the sum of the distribution of each of the single nozzles. The optimized nozzle scheme and configuration allows a complete uniformity in the water distribution

Removable rinse nozzles
(bayonet fit) for periodic cleaning



Removable side caps



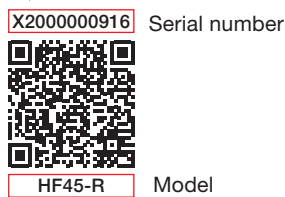
Interchangeable WRIS@2
in stainless steel, only for
indicated models



QR CODE

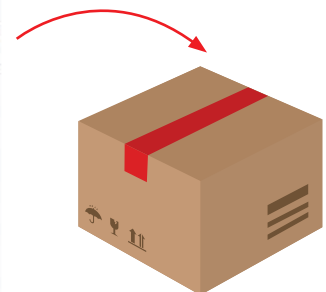
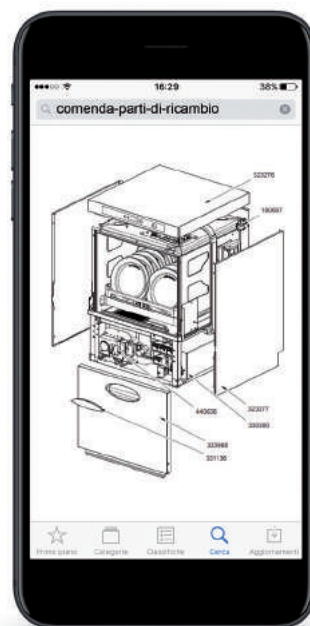


All units feature an additional
sticker indicating **QR code**
with serial number and machine
model on the front panel



Serial number

Model



Genuine spare parts can be
easily ordered by clicking
on the exploded view

Comenda Parts online service platform
(website and App) allows a 24/7 access
to the complete technical documentation
(user manual, exploded views and schematics)

Machines spec sheets
and CAD drawings are available
online in the **Comenda Library**
section at www.comenda.eu



Prime

Cycle selection

Wash

Rinse

Return

Backlit start button with color-coding

Self-diagnostics with alarm codes
Temperature readout (wash and rinse)

4 cycles (QUICK /GLASSES DIN10511 /DISHES DIN10510 /INTENSIVE)
with adjustable lengths and temperatures



GLASSWASHERS

PB

PB24
PB24 A

PB34
PB34 A



UNDERCOUNTER DISHWASHERS

PF

PF45
PF45 R
PF45 RA



HOOD TYPE DISHWASHERS

PC

PC07
PC07 R
PC07 RA

PC09
PC09 R
PC09 RA

PC12
PC12 R
PC12 RA



Glasswashers and front loading dishwashing machines

P

P: Prime

F

B: Glasswasher
F: Front loading dishwashers

4

Clearance
2: 200 mm
3: 300 mm
4: 400 mm

5

Rack size
4: 400x400 mm
5: 500x500 mm

R

R: RCD

A

A: Water Softener

Hood type dishwashers

P

P: Prime

C

C: Hood type machines

O

x100 plates/h

7

R

R: RCD

A

A: Water Softener

	RACK SIZE (mm)	CLEARANCE* (mm)	EXTERNAL DIMENSIONS (LxHxP)(mm)	POWER SUPPLY (V)	INSTALLED LOAD (kW)	WASH PUMP (kW)	TANK HEATING ELEMENT (kW)	BOOSTER HEATING ELEMENT (kW)	TANK SIZE (l)	RINSE WATER CONSUMPTION (l/rack)	MAX OUTPUT (rack/h)
PB24 PB24 A	400x400	220	460x618x521	230V ~ 50Hz	2.65	0.25	2	2.4	12	2.5	40
PB34 PB34 A		270	460x680x521								

• Single skin body stainless steel execution AISI 304 • Deep drawn double skin insulated counterbalanced door • Single piece deep drawn tank multiple filtration system (collection filter and micro-filter) • Built in rinse aid dosing pump • Provision for detergent dosing pump connection

*Maximum passage height rack included

OPTIONAL drain pump, stainless steel wash and rinse arms, detergent dosing pump



	RACK SIZE (mm)	CLEARANCE* (mm)	EXTERNAL DIMENSIONS (LxHxP)(mm)	POWER SUPPLY (V)	INSTALLED LOAD (kW)	WASH PUMP (kW)	TANK HEATING ELEMENT (kW)	BOOSTER HEATING ELEMENT (kW)	TANK SIZE (l)	RINSE WATER CONSUMPTION (l/rack)	MAX OUTPUT (rack/h)
PF45 PF45 R PF45 RA	500x500	360	600x825x626	Multipower 230V ~ 50Hz 400V 3N ~ 50Hz	5.45/7.45	0.45	2	5/7	21	2.5	40/60

• Single skin body stainless steel execution AISI 304 • Deep drawn double skin insulated counterbalanced door • Single piece deep drawn tank multiple filtration system (collection filter and micro-filter) • Built in rinse aid dosing pump • Provision for detergent dosing pump connection

*Maximum passage height rack included

OPTIONAL drain pump, WRIS@2 stainless steel wash and rinse integrated system, detergent dosing pump, base stand c/w door, stand feet kit



	RACK SIZE (mm)	CLEARANCE* (mm)	EXTERNAL DIMENSIONS (LxHxP)(mm)	POWER SUPPLY (V)	INSTALLED LOAD (kW)	WASH PUMP (kW)	TANK HEATING ELEMENT (kW)	BOOSTER HEATING ELEMENT (kW)	TANK SIZE (l)	RINSE WATER CONSUMPTION (l/rack)	MAX OUTPUT (rack/h)
PC07 PC07 R PC07 RA	500x500	440	624x1460x740	Multipower 230V ~ 50Hz 230V 3 ~ 50Hz 400V 3N ~ 50Hz	7.7	0.7	2.2	7	42	2.5	40
PC09 PC09 R PC09 RA				Multipower 230V 3 ~ 50Hz 400V 3N ~ 50Hz	10.1	1.1		9			
PC12 PC12 R PC12 RA				10.5	1.5	9	2.8	65			

• Single skin body, stainless steel execution AISI 304 • Hood activated cycle start and manual cycle start • Removable rack holder • Single piece deep pressed tank; multiple filtration system (whole tank filter and pump suction filter) • Built in rinse aid dosing pump • Provision for detergent dosing pump connection

*Maximum passage height rack included

OPTIONAL drain pump, detergent dosing pump, CRC2 heat recovery unit and steam condenser, double skin insulated hood, WRIS@2 stainless steel wash and rinse integrated system (PC07 only), customizable stainless steel fabrication, cold water feed



Hi-Line

Cycle selection
 5 cycles (QUICK /GLASSES DIN10511 /DISHES DIN10510 /INTENSIVE/ ECO2)
 with adjustable lengths and temperatures
 Self-diagnostics with multilanguage alarm description

Return
 Temperature readout (wash and rinse)
 Visual indication of cycle status

Backlit start button with color-coding



GLASSWASHERS

HB

HB34
 HB34 R
 HB34 A

HB35 R
 HB35 RA
 HB35 RO



UNDERCOUNTER DISHWASHERS

HF

HF45 R
 HF45 RA



HOOD TYPE DISHWASHERS

HC

HC10 R
 HC10 RA

HC14 R
 HC14 RA

HCXL R



Glasswashers and front loading dishwashing machines

H

H: Hi-Line

F

B: Glasswasher
F: Front loading dishwashers

3

Clearance
3: 300 mm
4: 400 mm

5

Rack size
4: 400x400 mm
5: 500x500 mm

R

R: RCD

O

A: Water Softener
O: built in RO unit

Hood type dishwashers

H

H: Hi-Line

C

C: Hood type machines

1

x100 piatti/h
XL for wide body unit

0

R

R: RCD

A

A: Water Softener

	RACK SIZE (mm)	CLEARANCE* (mm)	EXTERNAL DIMENSIONS (LxHxP)(mm)	POWER SUPPLY (V)	INSTALLED LOAD (kW)	WASH PUMP (kW)	TANK HEATING ELEMENT (kW)	BOOSTER HEATING ELEMENT (kW)	TANK SIZE (l)	RINSE WATER CONSUMPTION (l/rack)	MAX OUTPUT (rack/h)
HB34 HB34 R HB34 A	400x400	270	480x715x530	Multipower 230V ~ 50Hz 230V 3 ~ 50Hz 400V 3N ~ 50Hz	5.25	0.25	2	5	12	2.5	40
HB35 R HB35 RA HB35 RO	500x500	300	600x720x600		5.7/7.7	0.7		5/7	10	2.5	40/60

• Double skin body, stainless steel execution AISI 304 • Deep drawn double skin insulated counterbalanced door • Single piece deep drawn tank with multiple filtering system (collection filter and micro-filter) with presence indicator (model HB35 only) and rack sliding guides • Soft start • Self-cleaning cycle at unit switch-off • Atmospheric RCD booster (models HB34 R, HB35 R, HB35 R and HB35 RO) • Self-draining wash pump • Built in HR drain pump • Electronic adjustment of the detergent and rinse aid dispensers

*Maximum passage height rack included

OPTIONAL stainless steel wash and rinse arms (twin arms HB34 / WRIS@2 for HB35), FRC heat recovery unit and steam condensing unit (model HB35), USB and Wi-Fi connectivity



	RACK SIZE (mm)	CLEARANCE* (mm)	EXTERNAL DIMENSIONS (LxHxP)(mm)	POWER SUPPLY (V)	INSTALLED LOAD (kW)	WASH PUMP (kW)	TANK HEATING ELEMENT (kW)	BOOSTER HEATING ELEMENT (kW)	TANK SIZE (l)	RINSE WATER CONSUMPTION (l/rack)	MAX OUTPUT (rack/h)
HF45 R HF45 RA	500x500	400	600x820x600	Multipower 230V ~ 50Hz 400V 3N ~ 50Hz	5.7/7.7	0.7	2	5/7	10	2.5	40/60

• Double skin body, stainless steel execution AISI 304 • Deep drawn double skin insulated counterbalanced door single piece deep drawn tank with multiple filtering system (pump suction, collection filter and micro-filter) with presence indicator and rack sliding guides • Soft start • Self-cleaning cycle at unit switch-off • Atmospheric RCD booster • Self-draining wash pump • Built in HR drain pump • Electronic adjustment of the detergent and rinse aid dispensers

*Maximum passage height rack included

OPTIONAL WRIS@2 stainless steel wash and rinse arms, FRC heat recovery unit and steam condensing unit, USB and Wi-Fi connectivity, base stand c/w door, stand feet kit.

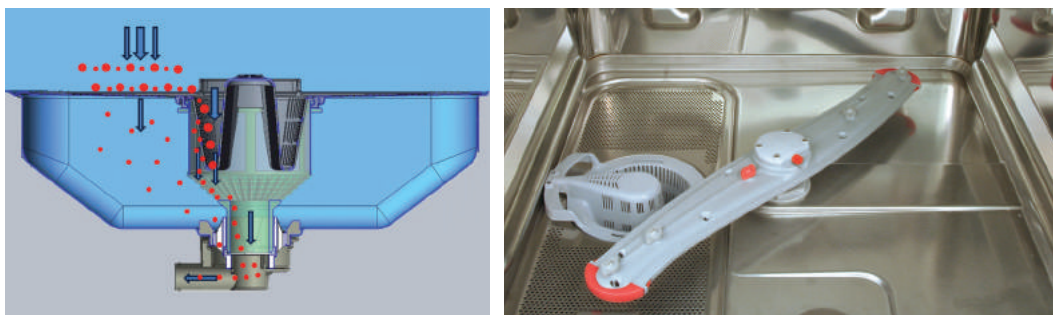


	RACK SIZE (mm)	CLEARANCE* (mm)	EXTERNAL DIMENSIONS (LxHxP)(mm)	POWER SUPPLY (V)	INSTALLED LOAD (kW)	WASH PUMP (kW)	TANK HEATING ELEMENT (kW)	BOOSTER HEATING ELEMENT (kW)	TANK SIZE (l)	RINSE WATER CONSUMPTION (l/rack)	MAX OUTPUT (rack/h)
HC10 R HC10 RA	500x500	440	624x1537x740	Multipower 230V 3 ~ 50Hz 400V 3N ~ 50Hz	10.1	1.1	2.2	9	42	2.8	55
HC14 R HC14 RA					10.5	1.5					75
HCXL R					11.2	2.2					

• Single skin body, stainless steel execution AISI 304 • Single piece deep drawn tank with multiple filtering system (pump suction, collection filter and micro-filter) with presence indicator • Upper and lower stainless steel wash and rinse arms • Self draining wash pump • Hood activated cycle start and manual cycle start • Removable rack holder • Self-cleaning cycle at unit switch-off • Upper control panel (on-top of the hood) • Atmospheric RCD booster • Self draining wash pump • Built in HR drain pump • Electronic adjustment of the detergent and rinse aid dispensers

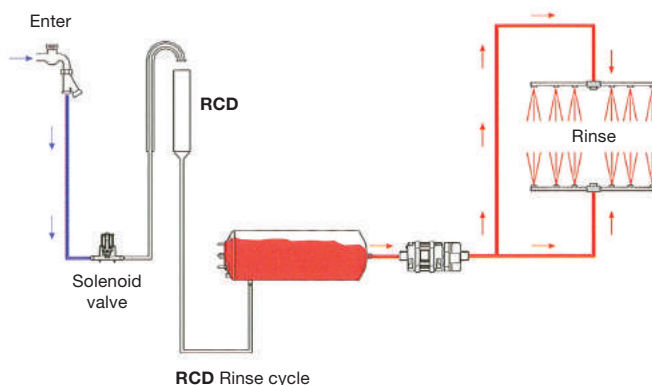
*Maximum passage height rack included

OPTIONAL CRC2 heat recovery unit and steam condenser, double skin insulated hood, customizable stainless steel fabrication, cold water feed - USB and Wi-Fi connectivity



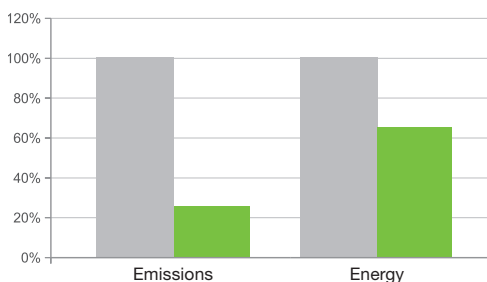
Multiple filtration system

Comenda has developed a multiple filtration system for HB35 and HF45 models. The system features a whole tank stainless steel filter conveying the particles to a polypropylene basket filter placed at its center with an additional stainless steel mesh wire micro-filter at its bottom. The particles removed from the crockery and glassware are stopped by the whole tank stainless steel filter and conveyed by the action of the wash water in the polypropylene basket filter where the biggest particles are retained. The smallest particles are captured by the micro-filter and removed through the action of the drain pump. The multiple filtration system guarantees a continuous usage of the unit eliminating the need of draining down the tank during the work shift and allowing considerable savings. The multiple filtration system is secured by a magnetic handle and a microswitch which allow the wash cycle to be started only if filters are placed correctly.



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.

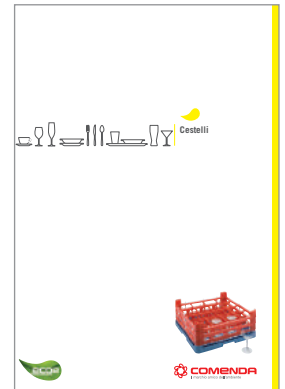
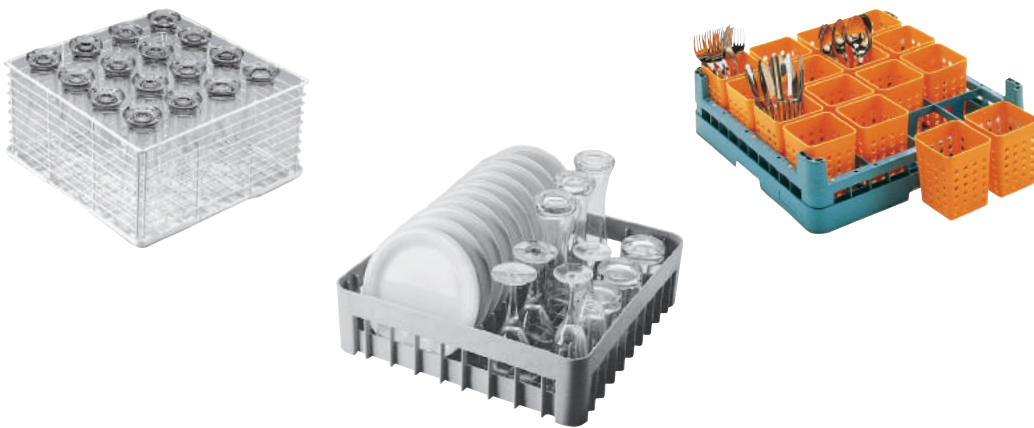


	EMISSIONS	ENERGY
STD standard	1000	1500
+ CRC2	750	1125

Comparison: PC07 Standard and with CRC2

FRC and CRC2 heat recovery unit and steam condensers

With the FRC and CRC2 systems, the steam produced in the machine during the washing cycle is both condensed and cooled down and the air is released into the environment at a lower temperature to ensure maximum operator comfort. Furthermore, the heat produced by the unit is used to heat up the incoming water, allowing cold water connection and avoiding extra electric load. Comenda FRC and CRC2 units allow a remarkable reduction in the energy consumption and steam emissions and no maintenance is required.



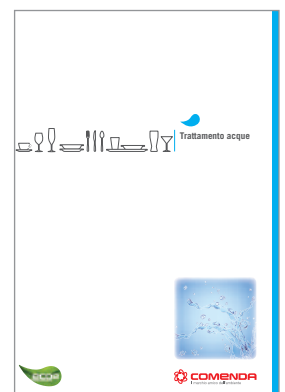
Racks 400X400 - 500X500 mm

Comenda offers a wide range of 400x400mm, 500x500 and 500x600mm racks designed to suit all purposes in ware-washing and minimizing reject rate and breakages. Comenda racks are manufactured in polypropylene, a shock resistant and non toxic material able to withstand high temperatures and the aggression of chemicals. Racks are stackable and inserts are available. Plastic coated and wire racks available.



Accessories and tabling

Through a wide range of accessories available in different configurations and sizes, Comenda has the ability of offering bespoke solutions suitable for any footprint, prewash and handling operations: from sorting tables with rack overshelves to prewash tables complete with sink, backsplash, scrap block and shower hose, from unloading tables to roller conveyors for heavy-duty operations.



Water treatment

Water supply quality is a stepping stone in professional warewashing. Comenda offers a combination of water softeners and reverse osmosis water demineralisation systems suitable for all the models across its entire range. Specifically developed for Comenda glasswashers, the compact AQUA+ES reverse osmosis water treatment reduces water hardness and mineral content of the incoming water and delivers spotless glasses and cutlery.

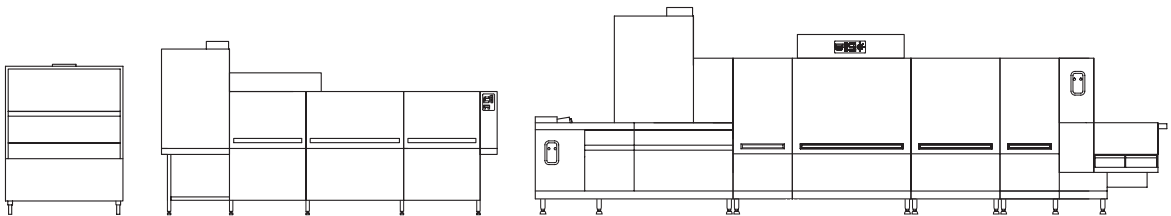


COMENDA Ali S.p.A.
Via Galileo Galilei, 8 - 20060
Cassina de' Pecchi (MI) - Italy
Tel +39 02 95228.1
Fax + 39 02 9521510
sales@comenda.eu

www.comenda.eu

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POT AND UTENSIL DISHWASHERS - RACK CONVEYOR MACHINES - FLIGHT CONVEYOR MACHINES
MULTIPURPOSE CONTAINER WASHERS - TAILOR MADE PROJECTS - ACCESSORIES



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The Spirit of Excellence