



AC2 series

Rack conveyor dishwashers



Five good reasons for choosing the AC2 series

1 Economy

Since rack dishwashers in the AC2 series have compact dimensions, they only use a very limited amount of water and also allow considerable space saving, leaving more room for the operator.

2 Hygiene

Tanks with rounded edges to prevent soil accumulation and self-draining pump to provide thorough cleaning of the washing chamber.

3 Performance

Despite their compact size, AC2 dishwashers can wash up to 180 racks per hour.

4 Reliability

Built-in balancing springs on the insulated door and side safety catches facilitate opening and closing. Diagrams and spare parts available 24/7 on the internet.

5 Quality

Machines built in a plant operating with an ISO 9001:2008 certified quality.

COMENDA

2 60



SELECT





AC2 series

Rack conveyor dishwashers



AC2



AC2A

THE RANGE

The AC2 range comprises a state-of-the-art machine that is extremely versatile, compact and designed in accordance with the “green” philosophy of Comenda, which continuously seeks solutions and products with a reduced environmental impact that allow considerable energy saving. Equipped with innovative high-tech systems, the models in this series reduce energy wastage to a minimum and can make an exact calculation of the quantity of rinsing water and washing chemicals in proportion to the number of racks to be washed. AC2 dishwashers can fit into tight corners and are suitable for installation in any kind of room. A single machine is just over one metre wide, yet it is highly productive, washing up to 1800 dishes an hour. Unlike a double-rack machine, the AC2 has automatic advance, which means the operator does not have to wait for two racks of dirty dishes before launching a washing cycle. And the dishes are soon ready to be re-used after little handling. As many as 100 racks can be washed in an hour. The dishwasher handles two racks at a time so that one moves on to the rinsing stage while the other is being washed.

Another important feature is the fact that the racks can enter from the right or the left, depending on the requirements of the user, who can opt for a subsequent change if the washing layout is modified.

All the machines come with a DIGIT control panel that is simple and intuitive to use and displays a digital reading of the temperatures.

As well as a drying tunnel and various heat recovery systems, all (in-line and corner) models can be equipped optionally with additional pre-washing or Ecorinse modules.

FEATURES

and details



WASHING SYSTEM

Inspectable washing manifolds with negative-moulded non-drip nozzles.



TANK FILTERS

Stainless steel filters covering the whole tank. The drain lever is located over the filters, which prevents the operator coming into contact with the soapy water.



ROUNDED CORNERS

Tanks with rounded corners to prevent the accumulation of dirt. This design also allows vertical positioning of the self-draining pump.



INSULATION

Extra-thick doors for excellent insulation. Low heat dissipation and noise level.



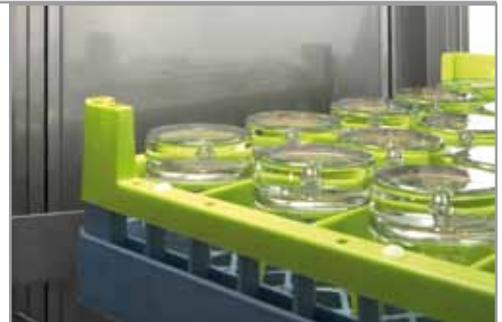
DOOR CLEANING STRIP

The specially-shaped strip cleans the door automatically during opening and closing.



DOORS

Inspection doors feature built-in springs, giving a smooth hygienic surface.



SAFETY HOOKS

These are built into the guides for enhanced operator safety and easy handling.



Applications



• Pubs and Cafés



• Canteens & Cafeterias



• Restaurants



• Hotels



• Hospitals

TECHNICAL DETAILS

- AISI 304 stainless steel frame, tank and panelling
- Inspection doors with built-in balancing springs
- Compact dimensions
- Inspectable stainless steel upper and lower washing manifolds with negative-moulded non-drip nozzles
- Moulded tanks with rounded corners
- Vertical self-draining pumps
- Door cleaning strip to keep the inside of the door clean
- Electronic control panel with digital temperature display
- Double-skin doors
- 24V control circuit
- Economiser that activates rinsing only in the presence of a rack
- Provision for electrical connections for dispensers



Advanced TECHNOLOGIES

HPS EASY

Dishwasher consumption is always an important parameter for the user as it is the main reason determining the choice of one product rather than another. There are numerous devices for reading and handling this data, but they normally require dedicated hardware and software. AC2 machines can take direct reading devices that allow the user to monitor the consumption of water and energy on a daily basis without the need for other systems.



DIGIT control panel

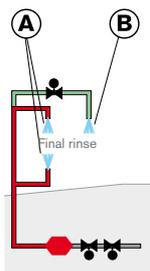
All models in the AC2 series come with a DIGIT control panel. It is easy and intuitive to use and displays the temperatures in the various parts of the dishwasher. It is so simple that it can be used even for untrained staff.

Consumption reduced by 33%



PRS & APRS

Despite operating at different speeds, conventional rack conveyor dishwashers always use the same amount of rinsing water, which leads to huge wastage. The patented system PRS and its evolution APRS are a true revolution as they adapt the amount of water to the workload and to the selected speed, saving as much as 33% in terms of water, electricity and chemicals.



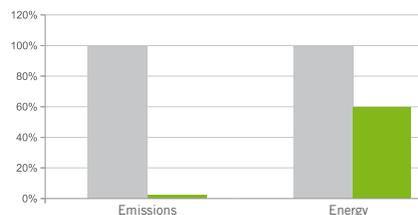
	Final rinse
A	1 st speed
A+B	2 nd speed

Energy saving and healthier environments



Heat pumps

The heat pumps, which are designed for rack conveyor dishwashers, save up to 40% of the energy normally required to heat the water. The system's ability to absorb the heat generated by the machine considerably reduces thermal radiation because the cooled and dehumidified extracted air is pumped back into the room, creating the best possible environmental conditions in the washing area. Two models available with different power ratings: the single-action that preheats the rinse water and the double-action preheats the rinse water and one washing tank.



	Emissions	Energy
STD standard	100%	100%
+ WP	2%	60%

Rinse aid reduced by 70%



RAH – Rinse Aid Homogeniser (patented)

Rinse aid has a higher density than water, so the two substances cannot mix uniformly, which requires more surfactant to achieve good drying results. The RAH is designed to help combine these two liquids of differing densities. It is the ideal solution to this problem as it considerably reduces the amount of rinse aid required, leading to cost saving and reduced environmental impact.



RAH System

Savings

As part of the ECO2 project, Comenda has implemented a series of state-of-the-art technologies, achieving excellent results in terms of water, energy and detergent saving.

PRS - PROPORTIONAL RINSE SYSTEM

It's a new and patented Comenda system. PRS allows to save up to 30% of water, energy, detergent and rinse aid. PRS regulates correct rinse water quantity according to conveyor speed.

HEAT RECOVERY UNIT

This system lets the machine run with cold water, pre-heating it to 40-45 °C. It exploits the heat and steam that would otherwise be dispersed in the air with significant energy savings (from 9 to 17 kW/hour according to the model). It is available with an exhaust conduit that runs along the entire machine length.

ECORINSE

The water from the final rinse cycle is collected in a tank with a dual filter system and is pumped to a pre-rinse cycle. This saves both energy and water.

AUTOTIMER

It reduces consumption by stopping the pumps when the system is idle.

MIDWASH PLUS

Unlike normal commercial dishwashers, with the MWP only 50% of the clean rinse water is sent to the wash tank - the rest is used for prewash. This achieves two goals: the water in the prewash area is renewed much more quickly, and there is lower detergent dilution in the next wash tanks. Instead of being conveyed to the wash area in a cascade manner, the rinse water is partialised before being sent to the prewash area with immediate advantages like: dramatic reduction in the amount of detergent used, perfect cleaning and hygiene, reduced environmental impact and money saving as the result of reduced consumption.

Technical info

AC2 SERIES	AC2-AC2A	AC2E-AC2AE	AC2P-AC2AP	AC2PE-AC2APE
Racks/h capacity with 2 minutes contact time in compliance with DIN 10510	70	90	100	120
Maximun racks/h capacity	100	120	150	180
Machine lenght (mm)	1150 /1250	1550/1650	1650/1750	2050/2150
Tank capacity (l)	80	94	125	139
Rinse water consumption according to DIN10510 (with PRS/witout PRS)	150/220	150/220	215/320	215/320
Electrical connection	400V 3N 50Hz	400V 3N 50Hz	400V 3N 50Hz	400V 3N 50Hz
Total power (55°C warm water connection)	19,11	21,76	23,86	26,46
PRS	option	option	option	option
APRS, RAH, MWP, AUTOTIMER	option	option	option	option

Technical variations may apply

A= corner version
P= Prewash section (500mm)
E= Ecorinse section (400mm)



ECO2: THE FORMULA FOR ENERGY SAVING

Comenda's philosophy is represented by a green petal defining the company commitment to research and application of high-tech 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 AC2 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 PRS, APRS, HRU and WP can be fitted to the AC2 machines achieving a higher energy efficiency and improved working conditions.



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 for online assistance and ordering spare parts. More than 700 users already registered. 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.

