



The benchmark for quality and innovation



# Dishwashers

CN Rack Type Warewashing Machines

# Optimised performance and reliability

The CN Series is the most space efficient rack conveyor dishwasher range on the market, when comparing size versus rack per hour capacity.

Outstanding performance, class leading economy and intuitive operation are combined to deliver perfect results and lowest running costs for the professional caterer.



## Impeccable results

Hobart have developed a completely new wash system for the CN series resulting in the most efficient wash system to date, ensuring perfect wash results every time.

## Ease of use

The easy to use Smartronic control system on the CN provides operators with clear, colour coded indication of the machine status at all times and makes operating as simple as possible.

## Easy to clean

Wide, panoramic doors provide unhindered access to wash arms, curtains and all other wash components. Areas where food soil have the potential to accumulate have been eliminated allowing easy cleaning.

## Reduced consumption

The CN uses from just 230 litres of water per hour. It is also available with the latest heat recovery unit which not only reduces consumption by up to 11kW/h but could save over £20,000 per annum.

## Energy saving

A major reduction in energy consumption has been achieved which has both commercial and environmental benefits.

# Consistently Outstanding Wash Results



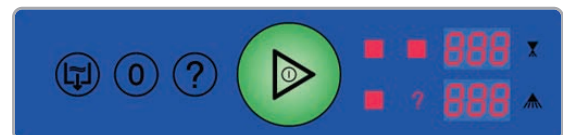
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## Simple to use

A dishwasher must be easy to use and customers tell us that having simple, controls is of key importance – CN delivers on both counts.

### SMARTRONIC

- Simple operation for filling, conveyor start, and draining.
- Illuminated control with colour indication of operational status
- Continuous display of wash & rinse temperatures.
- Indication of selected rack speed
- Additional data such as prewash and dryer temperatures can be accessed on demand
- Wash tanks are drained quickly and completely at the press of a button with the additional facility to drain/refill the pre-wash tank independently

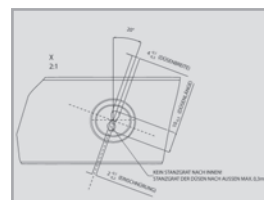


*Smartronic Control*

## Consistent cleaning

In addition to wash temperature, the efficient distribution of the detergent solution and effective rinsing are vital if a consistent, hygienically clean result is to be achieved.

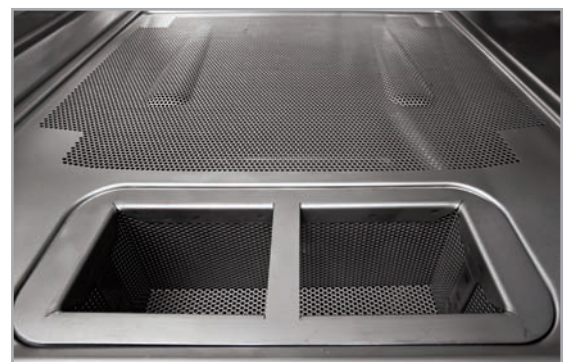
- The CONTACT-PLUS wash system features 11 wash arms, six upper and five lower, ensuring the maximum wash contact time.
- As well as a re-designed wash arm configuration the wash nozzles have also incorporate a new, wide angle wash jet producing a 65% wider fan pattern.



*Wide Angle Wash Jet*

In order to keep the wash water as clean as possible each tank features a full width strainer with removable scrap basket

- Prevents debris or foreign objects from entering the wash system or pump
- The sloped design guides food soil into the easily removable basket



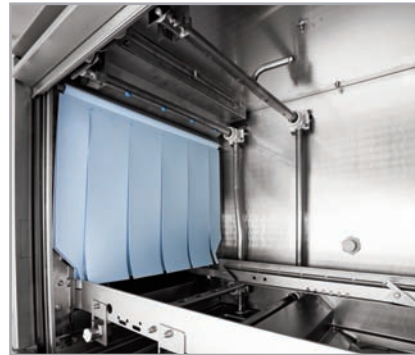
*Full Width Strainer*

# Consistently Outstanding Wash Results

## Maximum rinse, minimum water consumption

The latest Hobart triple rinse features the new RADIUS pre-rinse nozzle, pumped rinse and fresh water rinse system.

- The optimised rinsing system uses just 230 litres of water per hr (CN-A) and yet delivers complete coverage to ensure perfect results on all types of ware
- The RADIUS pre-rinse nozzle is positioned prior to the pumped rinse and the precision spray efficiently removes detergent solution from the wash ware which dramatically reduces the concentration of detergent carry over into the pumped rinse (pre-rinse) tank
- The pumped rinse remains cleaner for longer reducing the need for dilution by the final rinse.



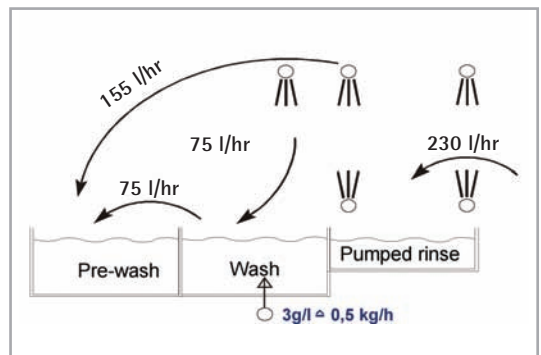
Triple Rinse System



Radius Pre-Rinse Nozzle

## LOW-CHEM detergent saving system

- The LOW-CHEM System directs just 75 litres of the rinse water into the wash tank via the RADIUS pre-rinse nozzle. This rinses off any detergent solution which is returned into the wash tank.
- Detergent consumption is reduced by up to 80% compared with conventional systems



## Optimum drying result

Conventional drying systems blow warm air from above which is then randomly distributed over the ware.

- The COMPACT dryer directs the air more evenly by clever use of deflectors positioned below the wash items, producing a substantially improved drying result. and is particularly effective on hard to dry items such as hollow ware
- The dryers include a mechanised drying table powered by the dishwasher and both straight through and corner: versions are available



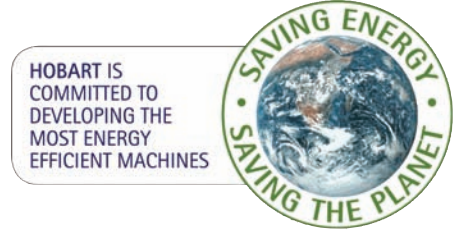
CDS In-Line Dryer



CDC90/180 Corner Dryer

Hobart's development philosophy ensures that any new technologies which aid in reducing resource consumption are quickly and efficiently incorporated into all applicable products.

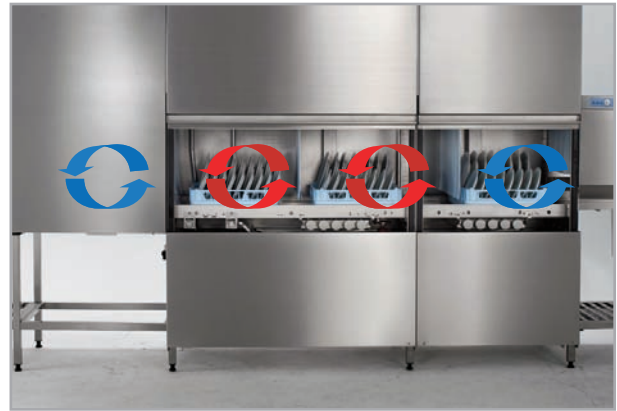
It is Hobart's aim to continue to reduce the energy, water and chemicals consumption in all its products thereby reducing the impact on the environment.



## Minimising energy losses

The movement of the water and air within the machine has a major impact on the overall heat balance.

- The optimized wash system – in combination with the new wide angle wash jet design reduces the movement of air in the machine and therefore the volume of steam escaping.
- Exhaust output is reduced by up to 20%
- More heat and energy is retained within the machine.
- Fresh air make-up required in the room is reduced.



## Reducing energy consumption

The latest generation of Hobart Exhaust Heat Exchangers recover up to 11 kW/h of energy.

- The mono-bloc design of the C20 heat exchanger is not only compact but also extremely efficient.
- Investment cost can be recovered within less than 8 months. (Assuming 5 hrs/day usage)
- Typical lifetime energy savings of over £20,000 and a reduction in CO2 emissions of 85,000kg. (Assuming 10 year life expectancy)



C20 Heat Exchanger

Hobart's CHP Heat Pump System leads the way for efficiency and reliability.

- The CHP reduces energy consumption by up to 18.5kW/h
- The exhaust air is cooled and de-humidified which eliminates the need for an expensive extraction system
- Investment cost can be recovered in less than 30 months (Assuming 5 hrs/day usage)
- Typical lifetime energy cost savings of over £30,000 and a reduction in CO2 emissions of 145,000kg (Assuming 10 year life expectancy)



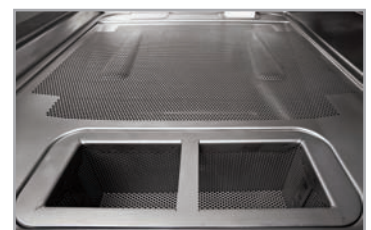
CHP Heat Pump

# Consistently Outstanding Wash Results

## Easy to clean

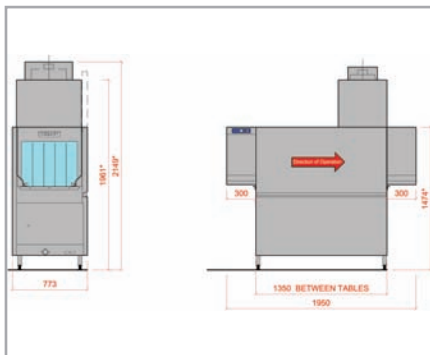
When developing any dishwasher ease of operation is paramount and this also applies to ease of cleaning. Hobart's 'back to the drawing board' philosophy has led to a machine designed not only to produce hygienic results but also to be hygienic

- The pre-wash, main wash and rinse areas can be easily accessed via large, panoramic doors ensuring that thorough and hygienic cleaning is not only possible but quick and easy.
- The deep drawn wash tanks with radius corners ensure there is nowhere for dirt to deposit making cleaning as simple as possible.
- Wash arms are mounted in single piece cassettes which are simple to remove and refit with no catches or clips. The wash arm end caps can easily be removed for cleaning if required.
- A single piece strainer completely covers the wash tank surface and includes a removable scrap basket which collects the coarse debris whilst the machine is operating. This protects the whole wash system and pumps from blockages and damage.
- When more thorough cleaning is required, the rinse system can also be removed easily. The coded arms ensure that they can not be incorrectly refitted.
- Zone specific curtains ensure correct positioning and prevent water and heat transferring from one tank to another. The curtains also help prevent steam and heat from escaping into the wash up area.

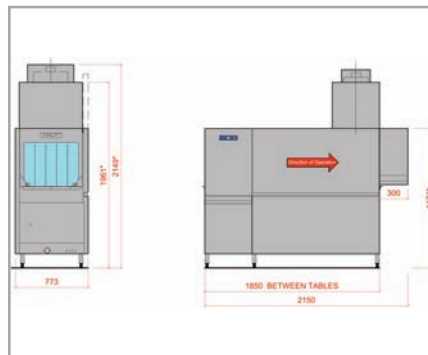


MODEL	CN-A	CN-E-A	CN-L-A	CN-S-A
Racks/h (DIN) [#]	80	100	120	150
Racks/h (max.) [#]	120	150	180	220
Plates/h (DIN) [#]****	1,440	1,800	2,160	2,700
Fresh Water Consumption [l/h]	230	240	260	260
Fill water [l]	105	115	160	215
Wash temperature [°C]	>60	>60	>60	>60
Final rinse temperature [°C]	>80	>80	>80	>80
Wash pump [kW; l/min]	2,2/550	2,2/550	2,2/550	2,2/550
Tank heating [kW]	12	12	12	12
Booster heater (without C20/with C20/with CHP) [kW]	21/12/9	21/12/9	24/15/12	24/15/12
Total load (without C20/with C20/with CHP) [kW]	40,5/31,5/21,8	40,8/31,8/22,1	45/36/26,3	45,7/36,7/27
Total Consumption (without C20/with C20/with CHP) [kW]	36,9/27,9/18,2	37,2/28,2/18,5	41,4/32,4/22,7	42,1/30,1/23,4
Useable height [in mm]	440	440	440	440
Useable width [in mm]	510	510	510	510
Length between table [in mm]***	1,350	1,850	2,000	2,250

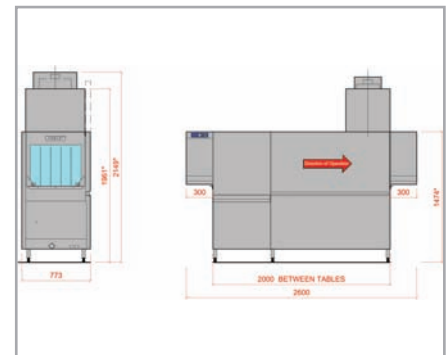
CN-A



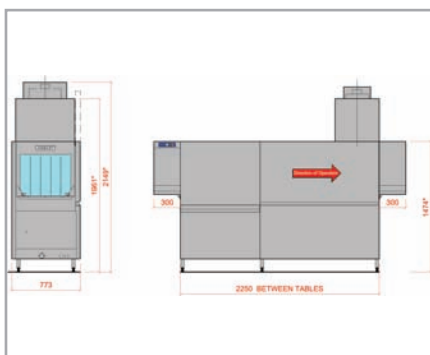
CN-E-A



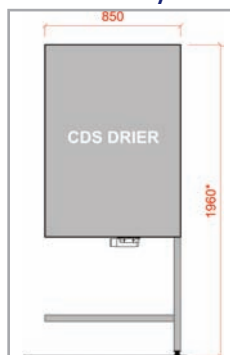
CN-L-A



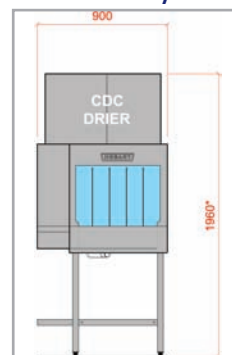
CN-S-A



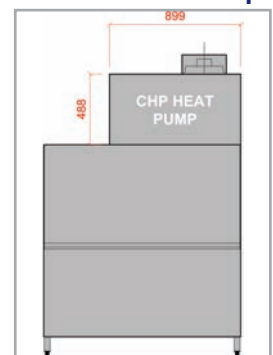
CDS Dryer

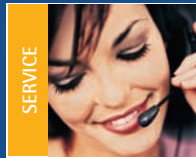


CDC Dryer



CHP Heat Pump





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