



Dishwashers

niagara

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 **ELETTROBAR**

The Benefit Makers

ELETTROBAR

the benefit makers



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During more than 40 years of business, we have produced more than a million industrial dishwashers at our two Italian plants, numbers that reflect our unrivalled experience in this particular sector. Building on this experience, we have continued to develop competitively-priced innovative products for leading players in the catering industry, furnishing these with effective, consistent benefits for their business. Elettrobar can, therefore, claim to be more than just a dishwasher manufacturer: we are benefit makers.

Our company is fully aware of the increasing importance of environmental protection issues and has taken major steps in this direction, developing and patenting innovative technologies able to reduce water, energy and detergent consumption without impairing performance. We adopt extremely stringent ISO 9001:2008 certified quality control procedures to propose products built to withstand even the harshest operating conditions. Our dishwashers are manufactured at forefront facilities both as regards workplace safety and protection and environmental impact, as confirmed by ISO 14001:2004 certification.

With the aim of delivering increasingly energy and water efficient products, we have examined each single phase of the wash cycle (washing, rinsing and drainage), pioneering and adopting technologies and methods that promote a considerable reduction in consumption while guaranteeing performance on a par with or exceeding that of conventional systems:

EWT (Elettrobar Wash Technology) is our way of using 35% less energy to power the wash pump.

EDS (Elettrobar Drain System) is our way of reducing detergent concentration by a further 10%. In this way, compared with conventional models, a Niagara dishwasher can consume up to 15% less detergent.

EVI (Elettrobar Visual Interface) is our way of assuring simple control and operation of the dishwasher with a communication protocol based on colours, letters and numbers.



technology creators



EWT

Most losses of power occur in the deviator that separates the water directed towards the upper arm from that routed to the lower arm. Elettrobar's EWT simple, genial patented solution eliminates the deviator and has prompted the development of the exclusive dual flow, double outlet pump connected directly to the arms. Power loss is eliminated, with a consequent reduction in pump power, i.e. consumption with the same washing force.

The light, strong composite material high-tech arm requires less energy for rotation and guarantees optimal distribution of water.



EDS

Conventional drainage systems use a gravity waste to drain excess water during rising. As the clean water is lighter than the dirty water in the tank, it floats on top of this and around 35% is discharged directly into the drain and not in the tank. EDS exploits the principle of Archimedes, using the clean intake water to exert a "piston" effect that pushes the dirty water from the bottom of the tank to the gravity waste. In this way, only 17% of the clean water is drained directly, the detergent solution in the tank is cleaner and a lower concentration of detergent can be used.



EVI

A new user-friendly interface based on a four-character LED screen that displays essential information: program selected, wash and rinse temperatures, number of cycles performed, user alerts, error messages. A visual check control changes colour, from green to yellow to red, to indicate machine status. A second bar shows progress of the cycle.

benefits



First benefit: performance

Electrobar's dual flow pump technology and high-tech arm effectively reduce losses of power and of water pressure at the outlet of the pump until the water reaches the object to be washed; wash temperature is 60°C compared with a conventional 50°C. This generates three concurrent positive effects: more powerful soil removal, maximum effectiveness of the detergent promoted by high temperature and a reduction in cycle times while delivering the same results.

Second benefit: green economy

Water is a precious element, detergents are pollutants, generating electric energy disperses CO₂ in the atmosphere. With a water consumption of less than 3 litres per rack and dual flow pumps, Niagara delivers impeccable washing in less time, also absorbing less power, while the EDS patented drainage system promotes a 10% reduction in detergent concentration compared with a machine with conventional gravity drain.

Third benefit: higher profits

Reducing consumption also means cutting running costs and, therefore, boosts profits while guaranteeing perfect hygiene and bright, clean dishes.

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Fourth benefit: **ease of use**

With the EVI interface, you can choose one of the three programs available (fresh soil, standard, very dirty plates), display machine functioning status and also the point of the cycle reached, manage the software-regulated rinse aid and (optional) detergent dispensers, display error messages, operating temperatures and number of cycles performed in a completely user-friendly manner, without the need for long staff training.

Fifth benefit: **fast cleaning**

End-of-shift cleaning operations are certainly the most fatiguing and stressing for operators. Niagara dishwashers are designed and constructed according to very simple, efficient principle: as all points where food soil may be trapped have been eliminated, this does not accumulate and need not be removed. Other factors include fully moulded tanks, integral tank filters, wash chambers without internal hoses. All Niagara hood models also feature a high temperature self-clean program for even faster cleaning.

Sixth benefit: **ergonomics**

Soft close door with a closing force of only 3 kg, much lower than conventional machines, afforded by a linkage mechanism with non-linear springs, designed by Elettrobar and protected by two international patents. The guides moulded in the inner door facilitate movement of the racks and double skin construction further reduces noise levels to guarantee an as comfortable as possible work environment.

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Front-load dishwasher with work surface at 76 cm from floor that permits load/unloading without bending, thus reducing fatigue.

The powerful multipower electrical system permits washing of 30 racks/h with intake water at 15 °C; according to available power, the machine can be connected in order to reduce power consumption and also in single-phase mode.

Versions available

Basic

S: with water softener.



Technical data

| | | |
|--|--------|----------------|
| Dimensions (wx dxh) | cm | 60 x 60 x 125 |
| Useful height | cm | 39 |
| Tank capacity | lt | 15 |
| Water consumption/cycle | lt | 2,8 |
| Tank element | W | 2.100 |
| Boiler element | W | 7.600 |
| Max. power consumption | W | 8.100 |
| Power supply | V/Hz/f | 400/50/3 |
| Fuse | amp | 16 |
| Convertible to three-phase with power consumption | W | 5.400 |
| Convertible to single-phase with power consumption | W | 3.500 |
| Duration basic cycles | sec | 90 - 120 - 150 |
| Self-clean cycle | | ProSelf |

Standard equipment:

- 1 x 50x50 cm plates rack
- 1 x 50x50 cm glasses rack
- 1 x cutlery basket

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Undercounter version with 18-plate 50x50 cm rack, can also wash Gastronorm and Euronorm trays. Maximum productivity of 720 plates/hour. Useful height of 39 cm, can wash up to 35 cm high glasses. External dimensions of 60x60 cm with height limited to 82 cm permit seamless integration.

Versions available

Basic

S: with water softener.

DP: with electronic detergent dispenser and drain pump.



Technical data

| | | |
|--|--------|----------------|
| Dimensions (wxdxh) | cm | 60 x 60 x 82 |
| Useful height | cm | 39 |
| Tank capacity | lt | 15 |
| Water consumption/cycle | lt | 2,8 |
| Tank element | W | 2.100 |
| Boiler element | W | 4.900 |
| Max. power consumption | W | 5.400 |
| Power supply | V/Hz/f | 400/50/3 |
| Fuse | amp | 16 |
| Convertible to single-phase with power consumption | W | 3.500 |
| Duration basic cycles | sec | 90 - 120 - 150 |
| Self-clean cycle | | ProSelf |

Standard equipment:

- 1 x 50x50 cm plates rack
- 1 x 50x50 cm glasses rack
- 1 x cutlery basket



Warning: The consumption and performance data indicated refer to machines installed and operating in ideal conditions and may vary according to installation conditions.
The technical data furnished in this catalogue are for guidance purposes only and may be modified in accordance with the continuous technological development of our products.