

TECH
PRO 615 810 816

Elegance and simplicity

Dishwashers



IFB

Ecology and economy



GreenEconomy

We are committed to protecting the environment and to continually studying and applying innovations to reduce the environmental impact of warewashing: more efficient pumps to improve wash performance and reduce consumption, high-tech rinse systems to save water and for sanitation at lower temperatures, cleaner water in the tank to reduce detergent consumption. For example, benchmarking the **PT 816** with a competitor product (*) highlights an energy saving of 22%, water saving of 20% with also a 27% saving on chemical products. For each 150 standard place settings washed (equivalent to a 1,200 plates), we emit 1.3 kg of CO₂ less into the environment. All these factors also contribute to reducing operating costs: € 1.5, i.e. 25%! Our production process is environment-friendly, as confirmed by ISO 14001:2004 certification of our plant.



ProTect protection of the working environment

The extremely low noise levels of our dishwashers, up to four times less than previous models, are assured by the **DuoFlo** pump and partial or full double skin construction and also thermo-acoustic insulation for certain models which promotes a further up to 25% reduction in noise. The electrical system has been designed taking into account the need to reduce electromagnetic emissions which are well below legal limits.



ProDuct quality concept

Colged machines are designed and constructed in compliance with an ISO 9001:2008 certified quality system and incorporate the unique experience of a manufacturer who, during its many years of business, has sold more than one million industrial dishwashers. All electric and electronic components are sourced in Europe and external suppliers are subject to stringent controls



* 40-litre tank - 0.8 kW pump - consumption 3 litres/rack - 90 second plates cycle.

Innovation and performance

TECH
PRO



ProStrainer integral surface strainer

ProStrainer integral surface strainers are made of high-tech materials, are lighter than conventional steel filters and more resistant to chemical attack and impacts. They do not lose their shape or efficiency even if shaken or banged during cleaning, as opposed to former metal filters which tend to bend and deform, losing their filtering capacity, in a short time.

- a) Gravity waste: water exchange equal to 62% of rinse water.
b) ArchiMedes: water exchange equal to 83% of rinse water.

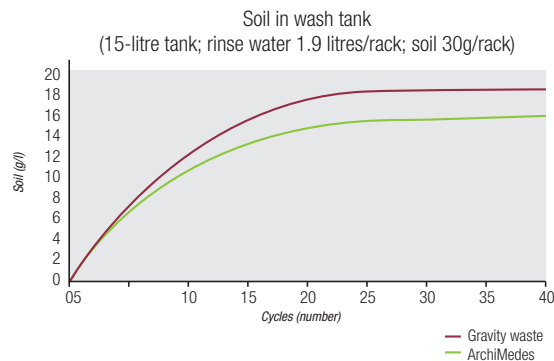


Fig. 1

ArchiMedes drainage system

During rinse, clean water is pumped into the tank to replace the dirty water. With a conventional gravity waste, the clean water floats on top of the heavier dirty water so that pumping in three litres, one goes directly to the drain.

ArchiMedes exploits the principle of communicating vessels with, therefore, a 67% to 85% increase in the amount of water used to regenerate the detergent solution in the tank.

The water is also forced towards the bottom of the tank, also discharging part of the built-up particles of dirt.

Wash water soils more slowly, water refresh is less frequent, detergent concentration can be reduced by around 10%. The drain pump is optional.



DuoFlo pump

A conventional pump has an inlet (from the tank) and an outlet towards the two spray arms: the flow of water must be distributed using a T or Y connector. Our research has revealed that this is where 25 - 30% of power is lost. Colged has eliminated the problem with a simple solution: the pump has one inlet but two outlets without any T divider.

Loss is not only reduced but completely eliminated, with also a 50% reduction in noise. A 470W **DuoFlo** pump delivers the same performance as a conventional 650W pump: maximum efficiency and minimum energy consumption.

Fig. 1: Detail ArchiMedes drain

Innovation and versatility

ProSmart interface

Permits finger-tip control of glasswasher main functions. A generously-sized four-digit display facilitates selection of the programs held in the memory and also displays wash and rinse temperatures and system self-diagnostic messages, to facilitate servicing, and the number for racks washed. Correct functioning of the machine can be monitored according to the colour (green, orange or red) of the Check-Bar while the Smart-Bar indicates current machine status (ready, heating, in use) and progress of the cycle according to changes in colour and size. Functioning parameters and temperatures can be personalised and dispensers can be software-regulated, introducing the dose required directly in g/l.



Wash programs

Permit extremely versatile operation combined with maximum ease of use: specialised cycles make it possible to deal effortlessly with an everyday mix of wash-ware, from fine glassware to plates and pans, adapting duration and consumption to the type of food soil to be removed. Fast, easy program selection is assured by the electronic interface.

There are three basic programs (standard, intensive, long) and also an extra-long program whose duration is determined by the user (**ProLong**) and an end-of-cycle self-clean program (**ProSelf**).



Program 1

Program for glasses and dishes with fresh food soil.



Program 2

General purpose program for plates with stubborn food soil.

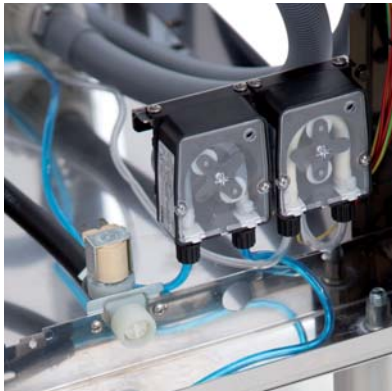


Program 3

Program for particularly dirty dishes.

Innovation and ergonomics

TECH **P**RO



ProChem chemical product dosing system

Electronically-regulated peristaltic rinse aid and detergent (optional) dispensers. Probes (always optional) are available for monitoring the level of chemical products, with alert on the electronic display. The control system permits direct setting on the display of the amount dispensed in g/litres, eliminating the need for complicated conversion calculations.

SmartClean construction

Save up to 40 minutes/day in end-of-cycle cleaning operations as there are no points where food soil can accumulate. Wash tank without internal hoses, deep drawn rack guides, integral shock-proof plastic tank filters and many other details make our dishwashers the fastest to clean.

ProGlide hood

The hood slides smoothly on anti-friction guides and is activated by a system of levers, without buckling or jamming if the handle is grasped from a corner. The weight of the hood is counter-balanced and lifting force is reduced to a mere 3 kg, thus reducing operator fatigue and increasing productivity. The hood is of the double skin insulated type to reduce heat and noise emissions.

ProSoft door

Closes with a smooth, precise motion to avoid damage to more delicate items even if the door is closed too sharply. The effort required by the operator is only 3 kg, half that usually required; the guides moulded in the inner door facilitate insertion of the rack, thus reducing operator fatigue, increasing productivity and reducing accidental breakages.

ProTech 615

Save water! Only 2.7 per rack with ProTech



Benefits

Productivity

The IFB wash system is able to manage a 72" normal plate cycle with a theoretical productivity of 900 standard plates or 450 x ø 38 cm under plates or 2,500 standard glasses or 1,250 tasting glasses and also 400 Euronorm trays or 200 thermal trays.

Performance

The 470 W **DuoFlo** pump, equivalent to a 620 W conventional pump, and modular wash cycles deliver exceptional performance levels. The **ProLong** cycle is particularly suitable for very dirty plates, trays, small pans and utensils.

Versatility

A useful door height of 38.5 cm makes it possible to wash not only dishes but also trays, thermal trays, small pans and utensils. Standard built-in dimensions with a total height of 82 cm permit trouble-free insertion in any kitchen.

Economy

For every 1,800 plates washed (around two hours of continuous functioning), Colged innovation saves 30 litres of water, 180 g of chemical products and 3.5 kWh compared with the market benchmark. In monetary terms, this translates into a saving of € 1.7, equal to 18% of operating costs.

Hygiene

Assured by high temperature washing and rinsing at 80 °C with guaranteed pressure, delivery and temperature. The electronic thermostop activates rinsing only if temperature matches that set. Hygiene of the working environment is implicit in the **ProTect** environmental protection concept.

Fast cleaning

Assured by **SmartClean** construction. The integral shock-proof plastic tank filter traps coarser residues while the **ArchiMedes** drain system reduces food soil deposited on the bottom of the tank. The **ProSelf** program reduces the fatigue of end-of-shift cleaning operations.



Versions

ProTech 615

standard undercounter version

Features	615
Full double skin construction	•
Fully moulded tank	•
ProStrainer shock-proof plastic tank filter	•
Wash system with DuoFlo pump	•
Electronic soft start	•
ArchiMedes drain system	•
Drain pump	○
Open boiler with break tank and rinse pump	•
ProChem electronic rinse aid dispenser	•
ProChem electronic detergent dispenser	•
ProTect environment improvement system	•
ProSmart LED type electronic interface	•
No. of standard wash programs	3
ProLong extra-long wash program	•
ProSelf self-clean program	•

• Standard ○ Optional

Standard equipment

Model	18-plate rack 50 x 50 cm	Flat rack 50 x 50 cm	Cutlery container	Fill hose	Drain hose
615	•	•	•	•	•

Model	Normal cycle	Intensive cycle	Extra-long cycle	ProLong	ProSelf
	sec	sec	sec	Extra-long cycle	Self-clean
615	72	110	150	•	•

ProTech 810



Save water! Only 2.7 per rack with ProTech



Benefits

Productivity

The IFB wash system is able to manage a 60" normal plate cycle with a theoretical productivity of more than 1,000 plates/hour. The 22-plate JUMBO rack (cm 54 x 54) which increases productivity to above 1,300 plates/hour, a value typical of rack conveyor dishwashers, can be used without any modifications.

Performance

The 0.65 kW **DuoFlo** pump, equivalent to a 1.1 kW conventional pump, and modular wash cycles deliver exceptional performance levels.

The **ProLong** cycle is particularly suitable for very dirty plates, trays, small pans and utensils.

Versatility

A useful hood opening of 46 cms makes it possible to wash not only dishes but also trays, thermal trays, small pans and utensils. Corner installation is possible without modifications or additional components. The hinged rack support facilitates movement and loading.

Economy

For every 1,000 plates washed (around one hour of continuous functioning), Colged innovation saves 17 litres of water, 130 g of chemical products and 2.5 kWh compared with the market benchmark. In monetary terms, this translates into a saving of into € 0.9 equal to 17% of operating costs.

Hygiene

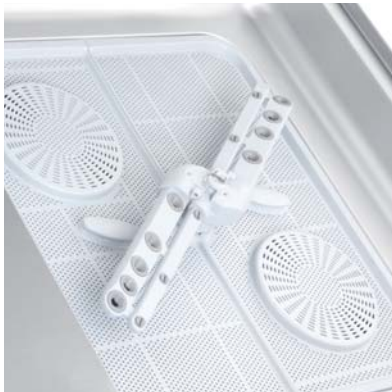
Assured by high temperature rinse at 80°C with guaranteed pressure, delivery and temperature.

The electronic thermostop activates rinsing only if temperature matches that set. Hygiene of the working environment is implicit in the **ProTect** environmental protection concept.

Fast cleaning

Guaranteed by **SmartClean** construction. The integral shock-proof plastic tank filter traps coarser residues while the **ArchiMedes** drain system reduces dirt deposited on the bottom of the tank. Half-seat configuration of the tank with a capacity of 22 l promotes optimal flow and distribution of water and more efficient removal of tank bottom residues.

The **ProSelf** program reduces the fatigue of end-of-shift cleaning operations.



Features	810
Fully moulded tank	•
ProStrainer shock-proof composite material tank filter	•
Wash system with DuoFlo pump and Equalizer ₂ arms	•
ArchiMedes drain system	•
Drain pump	○
ProChem electronic rinse aid dispenser	•
ProChem electronic detergent dispenser	•
ProTect environment improvement system	•
ProSmart LED type electronic interface	•
No. of standard wash programs	3
ProLong extra-long wash program	•
ProSelf self-clean program	•

• Standard ○ Optional

Versions

ProTech 810

standard version

Standard equipment

Model	18-plate rack 50 x 50 cm	Flat rack 50 x 50 cm	Cutlery container	Fill hose	Drain hose
810	•	•	•	•	•

Model	Normal cycle	Intensive cycle	Extra-long cycle	ProLong	ProSelf
	sec	sec	sec	Extra-long cycle	Self-clean
810	60	90	120	•	•

ProTech 816

Save more than 20% of water! Only 130 litres for 1,000 plates with ProTech



I Benefit

Productivity

The IFB wash system is able to manage a 60" normal plate cycle and the 50x60 cm standard rack accommodates 24 plates; theoretical productivity is more than 1,440 plates/hour, a value typical of rack conveyor dishwashers and equivalent to 80 standard racks/hour.

Performance

The powerful 1.5 kW **DuoFlo** pump, equivalent to a more than 2 kW conventional pump, and modular wash cycles deliver exceptional performance levels. The **ProLong** cycle is particularly suitable for baking trays, pans and tools in general.

Versatility

Wash tank dimensions (61x50x46 cm) makes it possible to wash 60x40 cm baking tins, planetary mixer bowls, pans and utensils in general. The grid type rack support permits direct insertion of up to 135 litre racks; hinged type attachment facilitates movement. Corner installation is possible without modifications or additional components.

Economy

For every 1,400 plates washed (around one hour of continuous functioning), Colged innovation saves 46 litres of water, 280 g of chemical products and 4.0 kWh compared with the market benchmark. In monetary terms, this translates into a saving of € 1.7, equal to 24% of operating costs.

Hygiene

Assured by high temperature washing and rinsing at 80 °C with guaranteed pressure, delivery and temperature. The electronic thermostop activates rinsing only if temperature matches that set. Hygiene of the working environment is implicit in the **ProTect** environmental protection concept.

Fast cleaning

Assured by **SmartClean** construction. The integral shock-proof plastic tank filter traps coarser residues while the **ArchiMedes** drain system reduces food soil deposited on the bottom of the tank. The **ProSelf** self-clean program reduces the fatigue of end-of-shift cleaning operations.



Features	816
Fully moulded tank	•
ProStrainer shock-proof composite material tank filter	•
Wash system with DuoFlo pump	•
ArchiMedes drain system	•
Drain pump	○
ProChem electronic rinse aid dispenser	•
ProChem electronic detergent dispenser	•
ProTect environment improvement system	•
ProSmart LED type electronic interface	•
No. of standard wash programs	3
ProLong extra-long wash program	•
ProSelf self-clean program	•

• Standard ○ Optional

Versions

ProTech 816

standard version

Standard equipment

Model	24-plate rack 50 x 60 cm	Flat rack 50 x 60 cm	Cutlery container	Fill hose	Drain hose
816	•	•	•	•	•

Model	Normal cycle	Intensive cycle	Extra-long cycle	ProLong	ProSelf
	sec	sec	sec	Extra-long cycle	Self-clean
816	60	90	120	•	•

TECH PRO



Non-binding technical data

Technical data		ProTech 615	ProTech 810	ProTech 816
Dimensions (wxdxh)	cm	60 x 60 x 82	64 x 75,5 x 157	70 x 75,5 x 157
Rack dimensions	cm	50 x 50	50 x 50 (54 x 54)	60 x 50
Tank capacity	lt	15	22	30
Door/hood opening	cm	38,5	46	46
Max. height of glasses/pans	cm	35,5	45	45
Max. plate diameter	cm	39	45	45
Washing of Euronorm trays		yes	yes	yes
Washing of 60/40 baking tins		no	no	yes
Washing up to 120-litre racks		no	no	yes
Max. theoretical productivity	plates/h	900	1.080 (1.320)	1.440
Power supply	V/Hz/A	400/50/3N	400/50/3N	400/50/3N
Multipower		yes	no	no
Max. power consumption	W	5.400 (8.100)	8.700	9.500
Water consumption/cycle	lt	2,7	2,7	3,2
Wash temperature	°C	60	60	60
Rinse temperature	°C	80	80	80



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.

