



IWT has over **twenty years** of experience in the lab animal field and has successfully installed over 500 Cage & Rack Washers throughout the World, from West Canada to New Zealand. This represents the most effective and tangible sign of our deep knowledge and exclusive commitment to this industry, as well as a very solid technical ground to build on for the future. All of this was the backbone and fuel to engineer and launch **Atlantis**, the **most innovative and pioneering line** of **Cage & Rack Washers**.

**Go to the future,
go with Atlantis!**



The new industry benchmark for operational efficiency and flexibility.



Atlantis will be the benchmark of Cage & Rack Washers industry for efficiency and flexibility in the next twenty years, exactly as the 900GP Rack Washer has been for the past fifteen.

Atlantis will be available under three different configurations, **EASY, EVO and XL**. These will respectively depend upon chamber size, operational performance, requested applications and option selections.

Efficiency and Efficacy of the process

Along the lines of well proven and repeatedly validated technologies, separate wash and rinse circuits and motor driven oscillating arms, IWT have taken Atlantis to the next level. We have **increased load capacity by 10%** and the **total force impact** (combined water pressure and flow rate at the jet) **by 50%** over our current and still market best performing 900GP model. This means even greater hourly throughput and most of all remarkably stronger mechanical wash efficacy with no increase in chamber size and no extra energy and water intakes. All of which translates into lower running costs per cage processed and at the same time even higher levels of cleaning the dirtiest cages and racks around, within a shorter time!

Atlantis is the first rack washer in the market featuring an optional patented on-board heat recovery system, which is capable of capturing the majority of the energy dissipated into the chamber. This is then used to pre-heat the rinse water and cool down the evacuated moisture to the point that Atlantis can actually be installed WITHOUT any exhaust ductwork.

The benefits from this **unique cooling and recovery technology** are multiple and include:

- Much faster reheating time in between cycles
- Much lower CO₂ emissions in the environment
- Ease of installation into existing buildings

- Huge steam (or electrical) savings, potentially over 60.000 kilos (130.000 pounds) of process steam per year. This could then lead to a **full financial pay back of the investment within three years**.

Atlantis is also equipped with a state of the art touch-screen operator interface with a very safe and **extremely intuitive navigation system**. This is key to allowing very simple and efficient day-to-day operation as well as providing multiple password protected machine setting, data collection and self-diagnosis activities.

As standard Atlantis comes with a built-in **Tele-Service® package**, enabling on line remote diagnosis and guided assistance as well as software upgrades, all with safety and operational efficiency in mind!



It is all about great Flexibility

In response to the rapidly changing research laboratory trends and needs and at the light of the frequent architectural constraints, equipment performance, flexibility and modularity are the most valuable and desirable features.

Significantly, Atlantis EVO takes up significantly much **less floor space than current technologies**, from 10 to 20% less square usage depending upon actual configuration, whilst still providing greater hourly throughput, and requires a **100mm (4 inch) deep pit only** (or an equivalent ramp). Furthermore, the Atlantis EASY can be installed and operated **in between solid walls**, with complete frontal access for maintenance and service.

These features simply mean a much easier job for lab planners and project managers to design and smoothly deliver rack washers into existing buildings and in very old or constrained cage wash facilities.

It goes without saying that Atlantis' unique heat recovery and cooling package with the **optional exhaust duct-free configuration** makes the job even easier, without all the headaches and the extra costs of adding or upgrading existing ductwork and utilities.

Atlantis comes with an unmatched variety of options and accessories, some of which can be easily retro-fitted, enabling investment progressively or as operational requirements necessitate.

Atlantis is also the first and only Cage and Rack Washer featuring a complete board-mounted and exhaust duct-free decontamination facility.

The **built in D-Box® hydrogen peroxide vapor generator** in conjunction with **the fast aeration kit and the carbon filter catalyst**, provides the safest and simplest turn-key decontamination solution. H₂O₂ distribution throughout the chamber is enhanced and it is decomposed safely and quickly at the end of the cycle, with no need for separate and expensive exhaust duct to evacuate the gaseous solution.

Flexibility means also dealing with different cleaning challenges and Atlantis, along the line of the highly successful 900GP model, is designed and independently validated to thoroughly wash rodent cages (including dirty autoclaved ones), different IVC racks, larger animal cages with racks, bottles and last but not least **aquatic tanks** with our unique scrubbing-free patented **OxiPlus® recipe**.

Contact

Please contact your local Tecniplast and IWT representative to know more about Atlantis and how this machine can significantly improve your current and future operations.

