



Magnetodoor® by De Lama.

The World's First Magnetic-Driven Door for Pharmaceutical Equipment.

The door that opens the way to the full new Annex 1 compliance.

Exclusive. Patented. Revolutionary.

Magnetodoor® by De Lama is revolutionizing contamination control. Swipe to discover why this patented innovation is the game-changer your facility needs. →

What Makes Magnetodoor® Revolutionary?

Magnetodoor® represents a fundamental breakthrough in pharmaceutical equipment design, unlike traditional sliding doors.



Eliminates Particle Generation

Our patented magnetic-drive system replaces mechanical components, ensuring zero particle generation for superior contamination control.



Unprecedented Access

It provides complete access for thorough cleaning and efficient maintenance, leading to reduced operational costs and downtime.



Seamless Integration

Designed for optimal performance, Magnetodoor® integrates perfectly with existing isolators and cleanrooms.

Magnetodoor® Versatile Application Across De Lama Equipment



Sterilizers

Magnetodoor® on sterilizers for direct integration with isolator ensuring aseptic transfer and H₂O₂ compatibility



Dryers

Magnetodoor® on dryers, for enhanced cleaning access for sticky product residues and optimal drying performance



Washers

Magnetodoor® on washers. Simplified maintenance and superior contamination control for cleaning equipment

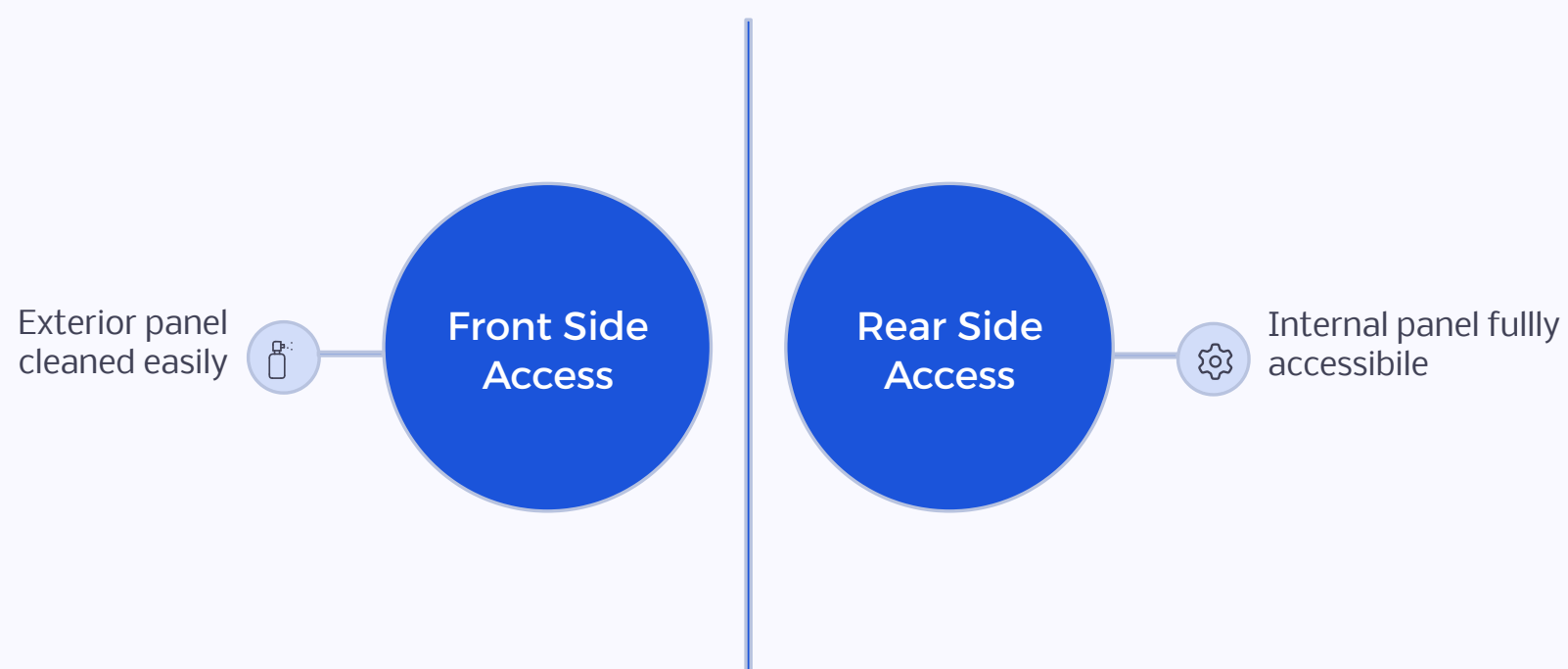


Combo Units

Magnetodoor® on combo units. Complete process flexibility with consistent contamination control across operations



Full Manual Access & Cleaning on Both Door Sides



Traditional doors make rear-side cleaning complex or impossible
Magnetodoor® solves this challenge completely, ensuring validation compliance and product integrity.



Zero Consumables, Maximum Savings

No Replacement Parts

Magnetic drive eliminates gears, belts, and wheels that wear out over time.

Reduced Downtime

Fewer components mean fewer failures and maintenance interventions.

Long-Term Reliability

Dramatically lower total cost of ownership throughout equipment lifecycle.

Ultra-Clean Design: Allows Zero Particle Release



No Gears

Eliminates metal-on-metal wear



No Motors

Removes potential contamination sources



No Belts

Prevents particle generation from friction



No Toothed Wheels

Minimizes dirt retention points

The magnetic sliding system of Magnetodoor® keeps the isolator side component-free, **significantly reducing dirt retention risks** and preventing any particle release into your controlled environment.

Perfect Integration with Isolators & Cleanrooms

Direct Connection Benefits

- Seamless integration with high-containment isolators
- Critical advantage for aseptic processing applications
- No particle generation when facing cleanroom & isolator environments
- Maintains sterility during material transfer from autoclave to isolator
- Avoid any cross-contamination

Game-changer for sterile operations:

Magnetodoor® allows equipment to be directly connected to isolators—a major breakthrough in contamination control.

INTEGRATION WITH ISOLATOR

DE LAMA
AUTOCLAVE
coupled through
De LAMA
MAGNETIC
DOOR

ISOLATOR
(not from De Lama)

The "must have" design for the integration of a washer or steriliser with an isolator

Perfect Integration with Isolators

No space is wasted



Revolutionizing sterile operations: The Magnetodoor® sliding/pocket mechanism is engineered to optimize critical internal isolator space. Unlike conventional systems, it prevents any valuable area from being consumed by the door, allowing equipment to be directly connected to isolators: a major breakthrough in contamination control and operational efficiency where every inch counts.



Magnetodoor® - H₂O₂ Decontamination Compatible



Full Sanitization

Clean design enables complete H₂O₂ penetration and effectiveness



Material Compatibility

All components withstand vaporized hydrogen peroxide treatment cycles

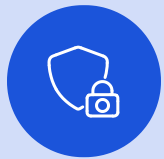


Isolator Treatment

Fully compatible with internal isolator decontamination protocols

Limited components and clean construction allow complete sanitization and sterilization with H₂O₂, ensuring your equipment meets the most stringent sterility requirements.

Seamless Connections: Isolator to Sterilizer & Washer



Direct & Secure Coupling

Magnetodoor® creates a hermetic seal for sterile transfer between isolators and sterilizers.



Autoclave Integration

Facilitates efficient sterilization and safe material transfer without breaking containment.



Washer-Autoclave Ready

Streamline combined cleaning, sterilization, and transfer processes with ease.

Experience unparalleled flexibility and sterility with custom configurations tailored to your specific process needs.

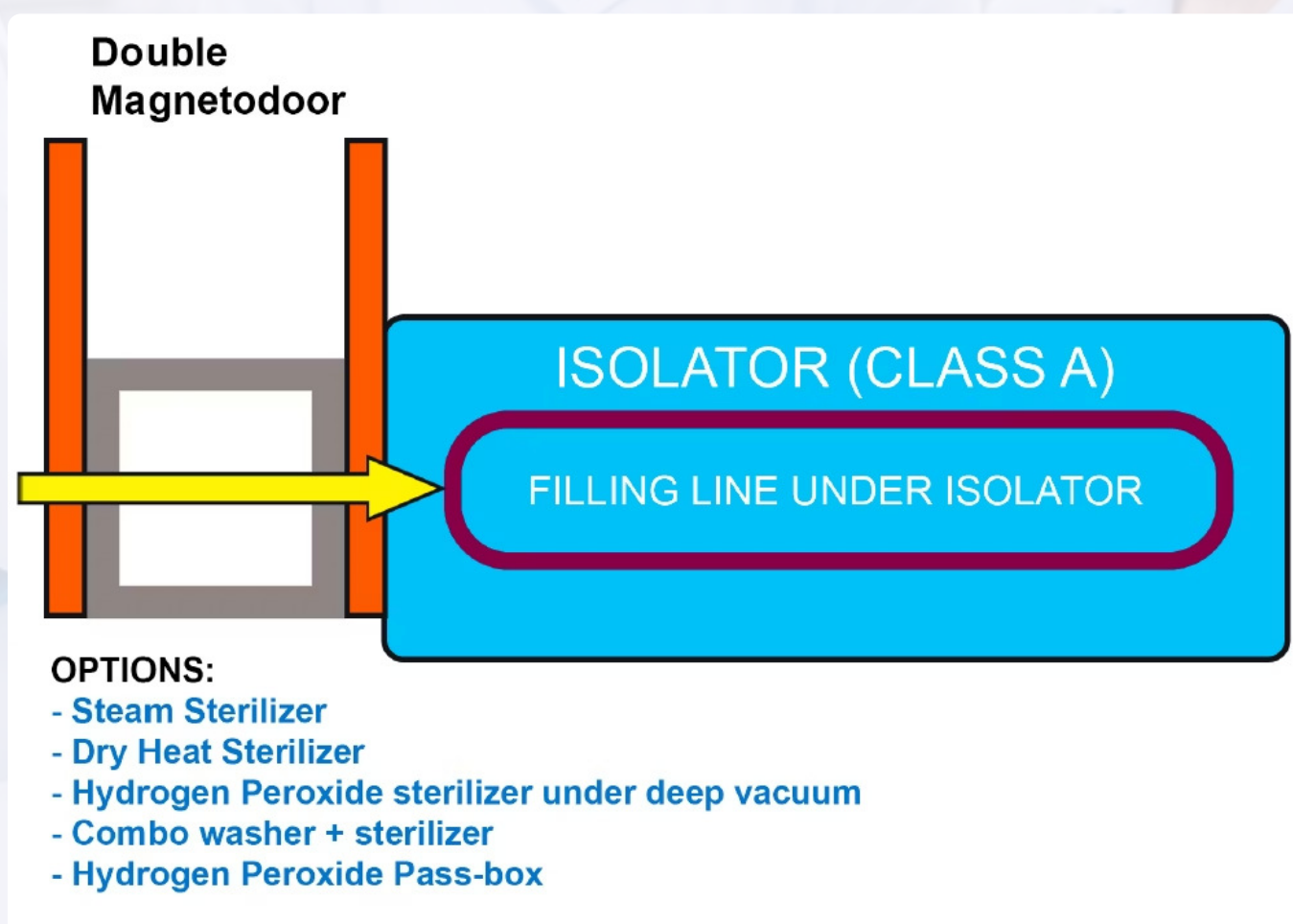
R-Evolution of Process Layout

1- Entry deck connection

This configuration provides a double **Magnetodoor®** that allows you to **load the items into the sterilizer and unload the sterilized items directly into the isolator**, thanks to the presence of a tight connection between the two units.

The peculiarity of this configuration is its flexibility, as it can be easily adapted to specific process requirements.

Indeed, the sterilizer can be one of the following options: steam sterilizer, air/steam sterilizer, dry heat sterilizer, HyPerPure® sterilizer for low temperature sterilization under high vacuum or **one equipment that combines washing, sterilization** (including HyPerPure® H₂O₂ sterilizer) and **decontamination**.



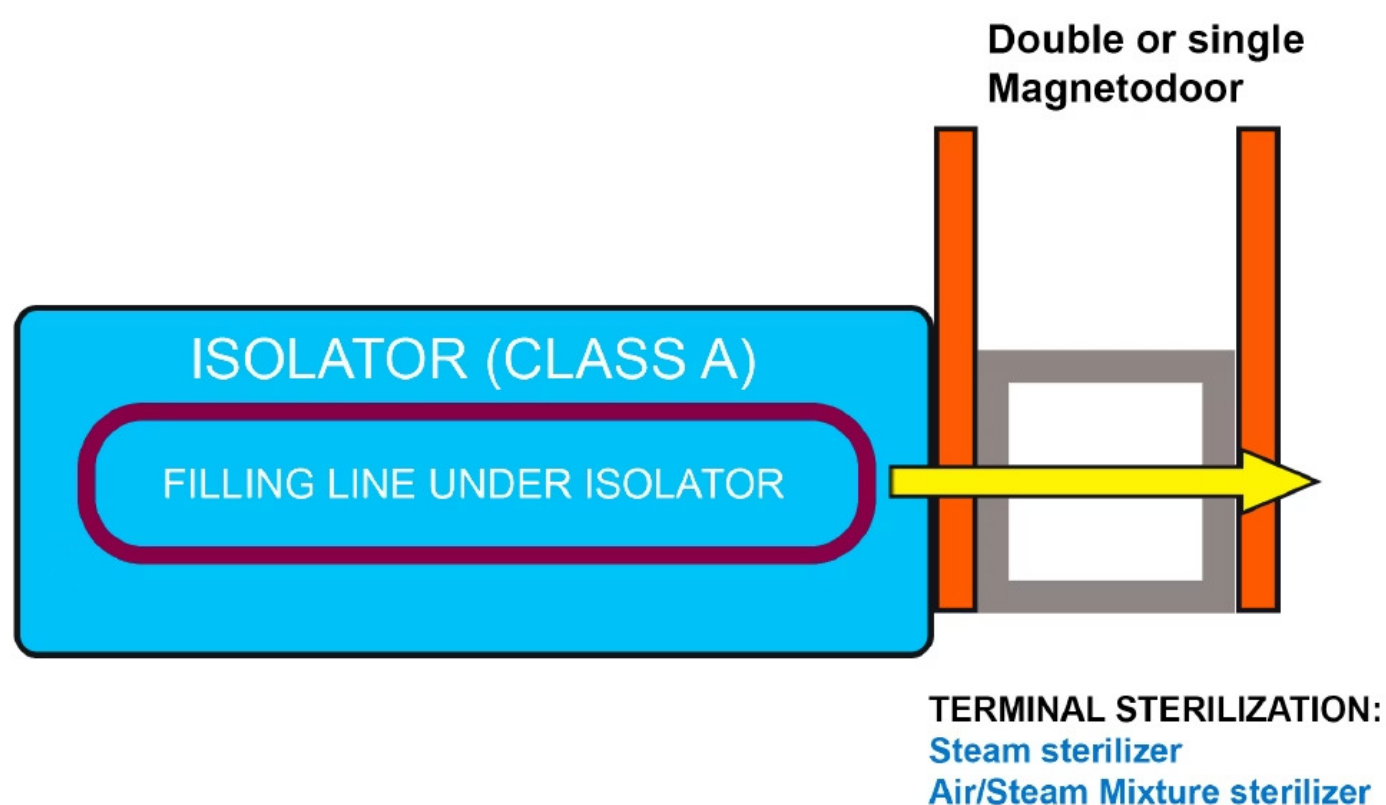
R-Evolution of Process Layout:

2- Exit deck connection

This configuration includes a **double Magnetodoor®** that **connects the unloading side of the isolator with the unit**. This would allow the items to be directly downloaded from the isolator into a sterilizer.

Also in this case a flexibility of application of this configuration is maintained, taking into account that the sterilizer can be a steam sterilizer, an air/steam mixture sterilizer or a HyPerPure® low temperature steriilzer with Hydrogen Peroxide under deep vacuum and zero air.

For example, when the isolator is connected to a HyPerPure® VH₂O₂ sterilizer, this solution allows the **terminal sterilization** of sealed packages containing heat resistant or heat sensitive products, after their aseptic treatment inside the isolator.



R-Evolution of Process Layout

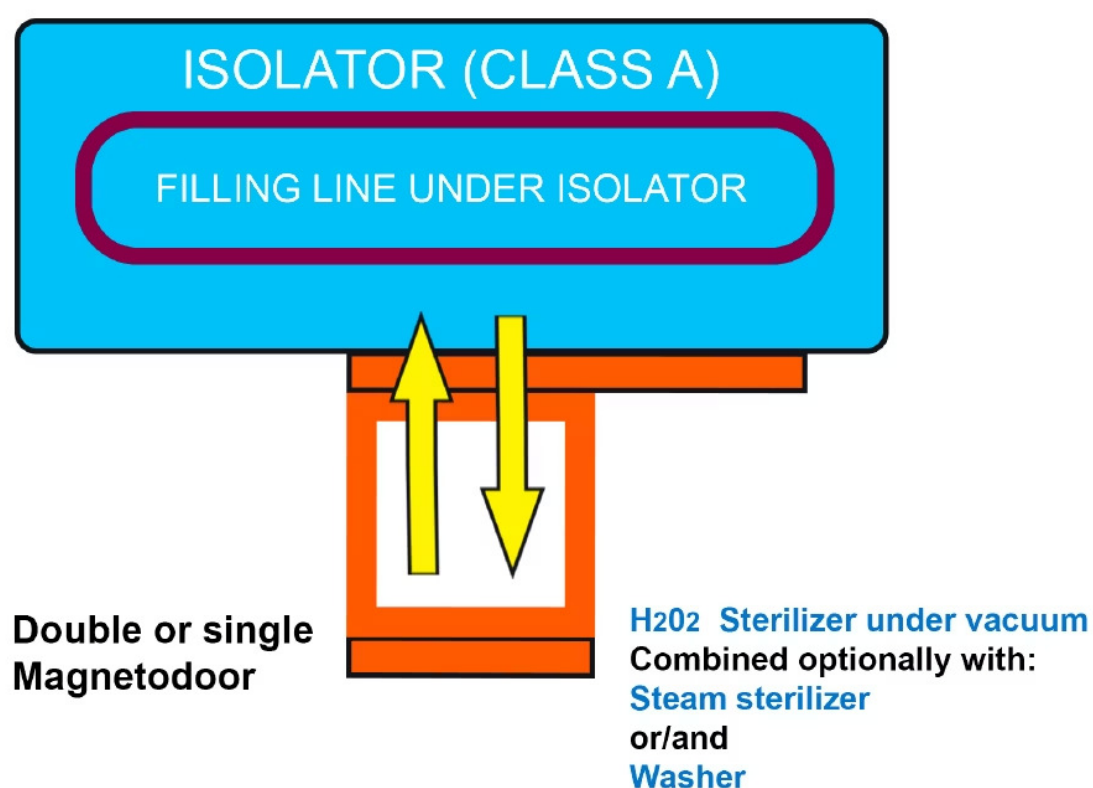
3- Service peninsula

This configuration includes a **single or double Magnetodoor®**, which **connects the De Lama unit with an alternative loading/unloading side of the isolator.**

This configuration was conceived considering any need to move items from the isolator into a sterilizer and back into the isolator when the sterilization process is finished.

Depending on the requirements of the aseptic process, the unit can perform different kind of sterilization processes including HyPerPure® VH₂O₂ sterilization or can be **one single unit combining washing, sterilization and a decontamination.**

The configuration allows to **move auxiliary items, which are used in processing** (e.g. transfer part of the filling line inside the isolator) directly from the isolator chamber into a sterilizer (or washing machine combined with a sterilizer) without the need them to be exposed outside the Class A. This direct connection allows items to be **returned to the same isolator as soon as they have been sterilized, washed or decontaminated.**



EU GMP Annex 1 Compliance

§ 4.23 Each manufacturing operation requires an appropriate environmental cleanliness level in the operational state in order to minimize the risk of contamination of the product or materials being handled

§ 8.16 Interventions should be carefully designed to ensure that the risk of contamination of the environment, process and product is effectively minimized.

— EU GMP Annex 1

01

Identifies the Risk

Annex 1 highlights contamination during material transfer as a critical control point

02

Eliminates at Source

Direct isolator connection removes transfer steps entirely

03

Ensures Compliance

Magnetodoor® addresses regulatory requirements proactively

By enabling direct connection between isolators and sterilizers, washers, or combo units, **Magnetodoor® eliminates contamination transfer risks at the source.**

Transform Your Contamination Control Strategy

Magnetodoor® isn't just an improvement—it's a paradigm shift in pharmaceutical equipment design. From unprecedented cleaning access to zero particle generation, this patented technology delivers measurable advantages in compliance, cost reduction, and operational excellence.

[**Click to Discover more about Magnetodoor®**](#)

[**Click to discover more about Direct integration with isolator**](#)

Ready to elevate your facility? Tag a colleague who needs to see this innovation. Share this post to spread the word about next-generation pharmaceutical equipment.