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Albany Rapid Roll 300 Clean DW: 1000-3500 mm ΙΡΔ DH: 1000 -3500 mm Side frames: Stainless steel Control: MCC – Integrated underneath covers Opening/Closing speed: 2,0/1,0 m/s Low leakage (max. $20m^{3}/h$ at a pressure difference of 25 Pa and door size of 3 m²) Suitable for cleanrooms with pressure differences up to 50 Pa Isolation in accordance with DIN EN ISO 14644-1 Class 5 Design in accordance with GMP Class C 2 Safeties: Contact edge/Pre-running photocells and door-line photocell Motor and top roll cover included



Fraunhofer

ΤΕSΤΕϽ

DOOR MATERIAL

The entire door (side frame, motor and barrel cover, bottom profile) is made of stainless steel with a minimum surface roughness. The extremely smooth surface facilitates easy cleaning and prevents the accumulation of particle deposits.

1.





Narrow side columns / minimum gap

The ultra tight gap of only 5 mm fits closely to the curtain minimising pressure loss and particle emmissions due to friction. The slim columns allow the door to be installed in areas tight on valuable production space and provide for a sleek appealing design.





Side Frame

- Compact design Including factory sealingsPre-assembled





Bottom profile

Is guided by special long life sliders designed to only leave a small gap between the bottom profile and the side columns. The elongated sealing lip is preformed in the correct position to fit your pressurised area.







Bottom Profile

Long life time slidersPre-formed lip







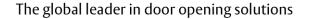
Integrated cabling

Cables are located inside the side columns to guarantee a flush external surface and and avoid the spread of partical dust due to cable movement.

The supply cables of the contact strip are guided reliably by an internal cable chain.









Internal Sealings

All openings are internally sealed off to prevent pressure loss and insure the sleek but effective design. The main power supply membrane is the only visible cable sealing.





Stainless steel motor and barrel covers 45 $^\circ$ graded.







Frequency converter control

- MCC Vector Control frequency converter
- Opening speed up to 2 m/s
- Optional Uninterruptible Power Supply (UPS) integrated underneath barrel cover
- Display unit and main switch located in side column





MCC Expansion box

Expansion box with interface card integrated underneath top roll cover

(Required for 230 V traffic light, potential free contact and interlock with other control systems)







Door curtain - Default

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Transparent PVC with white (RAL 9010) silicone free reinforcement stripes

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The user-friendly foil keypad with integrated graphic display and the main switch are integrated in the side column.

indication - LED / Anzeige - LED

LBANY

Optional UPS battery supplies power to the door in case of a power failure. LED signals battery status.





The global leader in door opening solutions



The door is equipped with an electrical safety contact strip. A contactless pre-running safety photocell is optionally available instead of the contact strip.

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Both of these safety devices are also supported by a stationary safety photocell, which prevents the door from closing when objects are in the way.





Contactless impulse activator "MAGIC SWITCH"

A contactless open switch is optionally available for fast, hygienic opening.

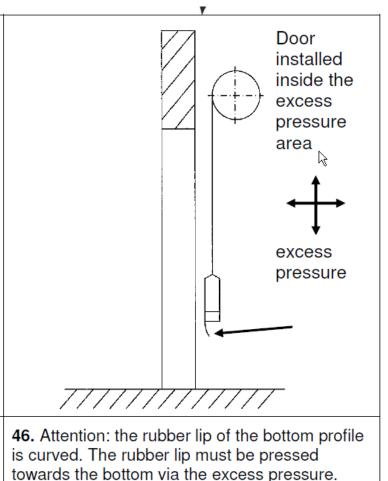




Sealing function

- Sealing value is the same from both sides
- Lip must be curved in the correct direction (from Factory)





If necessary the bottom lip must be turned.



Interlock situation





Case study



Albany equips cleanroom airlocks of Merck in Puerto Rico



The production of medication requires surroundings free of particles because already smallest particles could contaminate the pharmaceutical products.

In order to ensure such surroundings the *Merck* pharmaceutical group implemented several cleanrooms at its production plant in Puerto Rico.

The engineering company *Daldrop* + *Dr. Eng. Huber*, based in Germany was responsible for planning and implementation.

Eight clean room doors of the type **Rapid Clean** have been integrated to control the access to the material locks.

This high performance door conforms to the Good Manufacturing Practice (GMP) and has been certified (ISO) by the Fraunhofer Institute regarding its ability for cleanrooms.





