

# Healthcare Designs

Automatic door technology as you've never seen it before!



healthcare designs

# record automatic sliding doors



record automatic door systems is a wholly owned subsidiary of the agta-record group in Switzerland, established in 1953, and a world-wide manufacturer of automatic sliding doors with substantial credentials and is present in (50) countries. The North American headquarters and manufacturing plant are located in Monroe, North Carolina.

## Complete Satisfaction and Quality

Our top priority is your complete satisfaction with the quality of our products and services.

### By this we mean:

- Individual professional advice in choosing building access solutions for people and goods;
- A wide range of high-tech products to meet the requirements of modern building automation;
- Elegant designs with numerous options, compatible with any architectural style or building plan.

There are 22 record subsidiaries in Europe and the USA, and we have over 50 years' experience in mechanics, sensor technology, electronics and software for automatic door systems and related products.

## Talk to us about your needs!

Thank you for your confidence in our company; we look forward to hearing from you.

Our corporate headquarters in Monroe, NC. This state of the art facility allows us to manufacture quality entrances, on time and when you need them. With over 60,000 sq. feet, our facility provides the latest manufacturing techniques and machinery to provide nothing less than your total and complete satisfaction.



[www.recorddoors.com](http://www.recorddoors.com)



## 5900 Series manual ICU doors

Exclusive positive latching feature travels into the header system to prevent possible entanglement of IV and medical instrument wires

record-usa's unique positive latching system on manual ICU doors is different from that of the competition in that it latches inside the header and not an exposed vertical.

Studies show that manual ICU doors that incorporate side latching systems offer further complications in crisis situations. Patient IV wires may become entangled and cause injury or slow the required hasty transportation of the patient in an emergency.

Used in tandem with an easy to grasp handle system, provided on each side of the door itself, the positive latching system secures the active leaf firmly in place when the door is closed.

Healthcare environments are challenging. The need for a doorway to rapidly provide breakout capability in the event of emergency patient care is always required.

- ICU doors are specified to provide an unobstructed view of the patient and as a space saving technique.
- ICU doors are used to prevent possible delays in critical life safety situations

ICU doors are available in multiple configurations:

- two, three or four panel doors
- with or without floor tracks
- three or six panel telescopic

In all configurations, the doors may be specified to either breakaway into the patient room or out into the hallway.

*Note: With trackless units, breakaway capability may only be achieved for the side lite assembly and the active sliding door leaf when the doors reach the fully open position. With standard pin guide track units side lite and sliding door assemblies breakout from any position during the slide travel of the door*



Header sight lines are identical for all ICU products



### Options Include:

- integral blinds
- UL 1784 for smoke rated doors
- Switchable Glass Door Systems by Privacy Vue™

### Privacy Vue™ Features:

- Switchable glass fully integrated with 5100 Sliders/5900 ICU or folding doors
- Designed and custom fabricated using the highest quality components and processes
- Safe, superior low voltage switchable glass platform
- Manufactured in the U.S.A.



## 5800 Series Automatic ICU doors

Healthcare environments are constantly changing to meet the rigorous demands and expectations of an aging population concerned with the possibility of disease spreading through human contact.

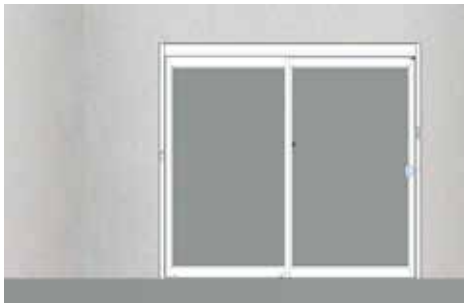
As such, the automatic door market has adapted and recently introduced products to meet these requirements.

The record IC-Matic is a low energy power operation sliding door system ideal for intensive care wards. A sleek design and reduced header height proves attractive while the ability to open automatically through jamb or wall mounted touchless wall plates eliminates the need to physically touch an activation device, thereby reducing greatly the spread of germs.

### Unique Positive Latching

Utilizing a fail secure lock with an emergency manual override, the IC Matic positive latching mechanism ensures that the door is securely shut every time the door closes after both the sliding and breakout motions. This allows one to freely exit the room in case of power loss and fire. The IC Matic positive latching mechanism fully complies with UL 1784, NFPA 101 and NFPA 105.

For normal door operation, when it is closed the lock will always be engaged. In order to release this lock under normal operation, simply activate the door using your chosen touchless knowing act activation accessory. The entire locking mechanism is firmly enclosed inside the header; there are no protrusions from the door or jamb tube into the door opening area. The lock throws a rod directly into the factory prepared cutout on the door catch, securely locking the sliding motion of the door.



Front



Rear, ISO Open



ISO Back



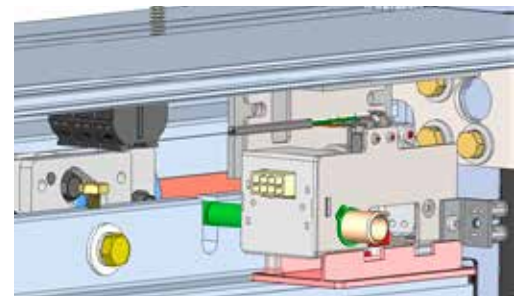
ISO View, Open



ISO Back, Open



ISO View



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## Description of ICU Positive Latching Comparison of Latch Types for 5900 Series

The primary functions of positive latch for ICU doors are:

- The doors remain closed
- The doors do not bounce back open
- One continuous operation to unlatch and open the door
- The door will open regardless of the position of the handle
- To obtain smoke ratings

Benefits of record's positive latch system are:

- Prevents ICU door from re-opening when softly closed
- Allows the patient to rest peacefully without fear of interruptions
- Bi-part ICU/CCU doors can easily be achieved securing both doors without the need of a center mullion



Typical ICU positive latch mechanism (notice protrusion of hook bolt)

A commonly used positive latch has a small hook bolt protruding 5/8" – 3/4" from the edge of the door at the handle height, as shown in the right side photograph. A disadvantage of this type of latch is that the hook bolt can catch clothes or equipment passing through the door.



record-usa ICU positive latch handle (smooth face no protrusion)

The record positive latch has no protrusion below the bottom of the head section. The latch of the door occurs in the header. An access hatch is provided for maintenance.





4900 series ALL-IN-ONE doors have overhead concealed manual door closers with a hold open feature



## 4900 Series ALL-IN-ONE Bi-Fold/Bi-Swing Manual

Introducing the record-usa ALL-IN-ONE door package. Ideally used to eliminate the possible impedance in a hallway of hospital personnel with patients caused by open door leaves, the dual folding-swinging ALL-IN-ONE door system assures that narrow hallways remain clear of possible obstructions that other door systems may cause.

In the event of an emergency, standard ICU packages may cause concern by breaking into the hallway to allow quick egress from the patient room. Doors of this type also may rely on a floor track system that slows a patient's travel while on a gurney or may lead to discomfort as they proceed over the track. Doors of this type are also usually manufactured with hard to grasp handles that are very difficult to open when the nurse may have his/her hands full. Nurses now may easily back into the swing side of the door system and enter the doorway even when handling food trays, patient charts, etc.

When large doorways are desired to allow the simple transportation of carts, wheelchairs or other equipment, standard ICU doors are provided with a breakout feature to allow the door panels to fold in one direction and stack. This design feature provides a larger than normal clear door way opening than swinging doors may allow. But when choosing record usa's ALL-IN-ONE door package the requirement of a breakaway feature is eliminated simply by opening the bi-fold and bi-swing door quickly and easily.

This ingenious three panel door system offers the combination of both a folding door and a double acting swing door system. Inherent to the creativity of the design is the ability to select which side of the unit the folding door panels are on and which side the swinging door unit is on – whichever allows the quickest egress should an emergency situation arise.

When the swing and fold door reaches the fully open 90 degree position, the door will remain open to allow ample time to pass carts and/or patients in wheelchairs, etc. without the concern of the door closing on the patient or the worry of an inconvenient floor track.

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## 4500 Series Automatic Slide/Fold Doors

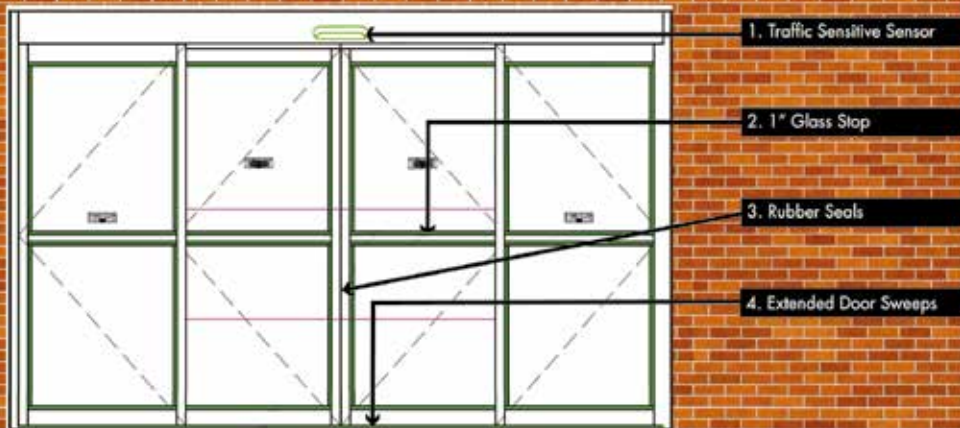
Where space is at a premium, record's Slide/Fold door allows quick and easy access. Ideally suited for healthcare facilities when a large opening is needed in a confined space such as, main entrances, emergency room entrances, corridors and pedestrian bridges. The Slide/Fold doors use record's proven system drive and control units, and have all the features and functions of record's 5100 series standard operator. The Slide/Fold can be either surface applied or mounted between jambs.

Most folding door systems are based on swing door technology and utilize two operators in a bi-parting folding door.

The record slide/fold door is based upon slide door technology and provides a simplified drive system using a single motor, idler pulley and drive belts. The microprocessor control is also used from the slide door, providing the same smooth operation.

It has an inherently lower maintenance cost with fewer components.





## 5100 Series The Greener Door “The door that pays for itself”

record-usa recognizes the importance of the Green initiative. Disposing of items that can be recycled diminishes energy, water and natural resources that could be saved by recycling. Creating an environment of cultural responsibility has been a focus of ours over the past several years and will remain as such for the foreseeable future.

### Energy Consumption of record-usa 5100 Series sliding door systems:

The Standby load has been tested at 25 watts. This is when the door is closed at rest and set on automatic mode, with other peripherals connected such as sensors, locking, etc. The maximum loading (continuously in full operation) has been tested at 100 watts. Most leading competitor's average from 250 W to 600 W. This is when the door is under permanent and maximum operation combined with the maximum door leaf weight of 225 pounds per panel. With the motor voltage at 35VDC, the operator is classified as Class II.

Exclusive Traffic Sensitive “Smart” opening logic reduces air infiltration. When low traffic is sensed the door operates to a selectable reduced opening. When two-way and/or higher volume is sensed, the door operates at full opening width. This is achieved automatically without the requirement of having to go to the door and adjust the operating mode.

By automatically changing the opening and closing width based on pedestrian traffic flow record reduces air loss out of the building.

Product manufactured by record-usa ships in recycled cardboard that is suited for further recycling or for possible reuse when required. We never use hard to dispose of Styrofoam like other manufacturers. This eliminates or greatly reduces extensive re-usable garbage/material being delivered to and or buried in public disposal areas.

- Electronics allow for both low wattage consumption and energy efficiency
- Traffic Sensitive Sensor provides controlled and timed opening and closing cycles
- 1" glazing offers protection from the elements and reduces hot/cold transfer from interior and or exterior
- Rubber seals between panels and extended bottom door sweeps reduce and eliminate air and smoke infiltration
- Door closers assure panel coming closed after breakout reducing loss of building heat or cold
- Extended door sweeps add extra resistance to the elements keeping cold air and snow out and heat in thereby saving on heating and air conditioning costs as well



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## 5100 Series Clean Room Door Systems

The record clean room sliding door is designed for use in clean rooms to automatically separate clean zones. Its smooth, flush-finished surface prevents dirt from collecting.

### Applications:

- Operating rooms in hospitals and clinics
- Research and laboratory room
- Pharmaceutical facilities
- Quarantine zones
- Clean rooms for food preparation

### Features:

- Single, Bi-Part or Telescopic configurations
- Rubber gaskets provide perimeter seal
- Grounded track system prevents static spark
- Can be equipped with LED traffic light for user feedback
- Available with recessed handles

### Options:

- **Electric Locking** – Concealed electric locks are available in both fail-safe and fail secure operation. The electric locks are mounted in the header and as a carriage lock that automatically locks the door against slide after each open-close cycle, or can be unlocked for daytime use and locked at night.
- **Battery Pack** – A constant charge battery pack is available for use with building alarm and security systems to ensure that entrances are secured in an emergency. A UPS (uninterruptable power supply) that provides 300 door opening cycles is also available
- **Partial Open Feature** – A selectable partial opening feature is available for applications that require a full width opening during pleasant weather conditions but a partial opening during harsh weather conditions. The microprocessor-based operator control offers an infinite number of partial opening settings. The partial opening can be constant or automatic depending on traffic volume.
- **Assembly** – Proven composite carrier roller material. Sealed ball bearing construction with an effective anti-derail/anti-rise system. Lifetime roller track system and engineered noise track and header.





## 6100 Series Swinging Doors Patient & Bathroom

When building design requires a surface applied low energy door operator suitable for medium to high volume traffic, the record-usa 6100 Series is your solution. record-usa's 6100 series low energy swing door operator eases your selection process by offering all of the features normally found as options, and incorporating them into one self contained unit. The 6100 Series also offers the lowest power consumption in its class.



## 8100 Series Swinging Doors Entrances & Corridors

Combined with world famed Swiss precision technology and a patented control system with 32 bit processor technology, the 8100 series is powerful and intelligent. The 8100 guarantees rapid and reliable door control performance, even when complex functions are desired. When programming the 8100 series with record-usa's available hand held remote you will be greatly impressed with the quick and easy diagnostics and software updates that make field adjustment easy to configure and program. Using state of the art computer chip technology incorporating flash memory, the installing contractor can program multiple entranceways to open and close at the exact same speed with each and every opening.

### Options:

- Available with squared or round headers
- Brake option available with the 8100 to maintain door
- Reveals up to 24" depth
- Extended arm adapters for clearance
- UL listed for both UL325 and UL228
- Non-handed
- Easily configurable with record's S.M.A.R.T. panel
- One header for simultaneous, independent and double egress pairs
- Overhead concealed design 8500
- The 8100 is adjustable from low energy to high speed operation to meet ANSI code requirements
- Units are capable of either push or pull operation with standard or track arm configuration
- The 8100 operates door leaves up to 360 pounds and 48" wide doors
- The 6100 operates door leaves up to 175 pounds and 48" wide doors
- Built in interface for electronic locking
- Push to start operation
- Latch assist closing ensures closing to overcome stack and wind conditions or door hardware
- Obstruction shut down halts the door when an object is detected
- Recycle on obstruction reopens the door upon making contact with an object
- Built in lock out relay provides simplified coordination with safety devices
- Standard 1 year warranty for 6100
- Standard 2 year warranty for 8100
- Built in power supply for sensors



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## S.M.A.R.T. Panel Smart Monitored Accurate Reporting Technology

- Intuitive interface and visual feedback of door status
- Selecting the operational mode of the door is a single button press, and the built-in display will provide confirmation
- The control panel can be manually locked, preventing unauthorized use
- Two control panels can be installed on the same door; one at the unit and one remote
- Provides the user with the phone number of the authorized service agent
- Reminds you of your commitment in performing a daily safety check
- Provides information regarding objects in track that may negatively impact the operation of the door
- Displays current door setting in regard to traffic selection and egress
- Indicates when a door has been accidentally broken out
- Identifies if a safety beam has failed or been damaged
- Notifies user of which part needs replacement due to failure or abuse
- May be used in conjunction with 5100 Sliders and 6100/8100 Swing Doors



Our Sensors and actuators are ideal for sterile environments (clean rooms, operating rooms and pharmaceutical); as well as, healthcare facilities and food processing plants to reduce contamination.

Our touchless sensor switches are designed for touchless activation of automatic doors. Ideal for sterile environments such as operating rooms or clean rooms, the sensor provides a complete hygienic solution for many different applications.

Our Copper Shield push plates are made from CuVerro antimicrobial copper surface materials certified by the U.S. Environmental Protection Agency (EPA) to kill more than 99.9% of bacteria, including MRSA, within two hours.\*

\*EPA testing demonstrates efficacy against the following six bacteria: Staphylococcus aureus, Enterobacter aerogenes, Pseudomonas aeruginosa, E. coli O157:H7, methicillin-resistant Staphylococcus aureus (MRSA), and vancomycin-resistant Enterococcus faecalis (VRE).

\*The copper alloy surface material has been shown to reduce microbial contamination, but it does not necessarily prevent cross-contamination. The use of a copper alloy surface is a supplement to and not a substitute for standard infection control practices; users must follow all current infection control practices, including those practices related to cleaning and disinfection of environmental surfaces.



## We Make Doors Easy!



record-usa takes a two tiered approach to service with factory owned branches and by partnering with only the upper echelon of independent automatic door distributors. Our factory owned and operated branches are located throughout the Mid West: Michigan, Indiana, Illinois, Iowa, Ohio, Minnesota, Nebraska, Kentucky, North Dakota, South Dakota, the Mid Atlantic and expanding. Our vast dealer network includes partnerships in all 50 states, all major urban centers, and all Canadian Provinces.



Our certified installers and repair service technicians offer years of product knowledge allowing us to support a variety of customer needs within the industry. We have technical skills and understanding to perform efficient and cost competitive service. We maintain a balanced inventory on all our vehicles so wait time is reduced or eliminated. With qualified service technicians and the ability to stock and service most automatic door equipment, we are positioned to provide excellent service to your total and complete satisfaction.

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