

Special for Central Operating rooms --Automatic Airtight Door

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SLEEK
KÖHL Medical Business Unit



Automatic Airtight Door Model

SLQ-OR-pb4.0

SLX-K-120

SLX-K-120-COL

SLX-K-85

SLX-D-85

SLW-2-steel

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Special for Central Operating rooms



Radiation-Proof Airtight Door
SLQ-OR-pb4.0



Used in central operating rooms.

Structure

The door body adopts a composite structure of HPL board + steel frame + lead plate lining, filled with fireproof and sound-insulating materials (such as polyurethane foam) inside. The surface is flat without nail holes, featuring both protection and aesthetics.

The door body is embedded with Pb4.0 lead plate, which can effectively block X-rays generated by DSA equipment.

Sealing Design

After the door is closed, it fits closely with the rubber strip of the profile airtight sub-frame. The closing force $F > 70\text{N}$, and the manual pushing force $< 100\text{N}$, ensuring stable pressure difference in the operating room.

Technical Parameters

This door type is special for central operating rooms.

Electrical Technical Specifications

Standard Power Supply	220~240V±6% 50~60Hz
Optional Power Supply	100~120V±6% 50~60Hz
Motor	AC36V low-voltage AC motor (two units)
Rated Power	250W
Standby Power Consumption	<10W
Frequency Conversion Technology	PMSM (FOC Field Oriented Control Technology)
Fuse	3.15A (220V) / 5A (110V)
Operating Temperature	-20℃ to 50℃
Ambient Temperature	-20℃ to 50℃
Backup Battery	1×12V DC700mAh

Operating Parameters

Adjustable Door Opening Speed	0.15 to 1m/s
Adjustable Door Closing Speed	0.15 to 1m/s
Maximum Acceleration	0.8-1.6m/s ²
Maximum Door Weight (Lead Door pb4.0)	1×300Kg
Maximum Door Weight (Lead Door pb4.0)	2×200Kg

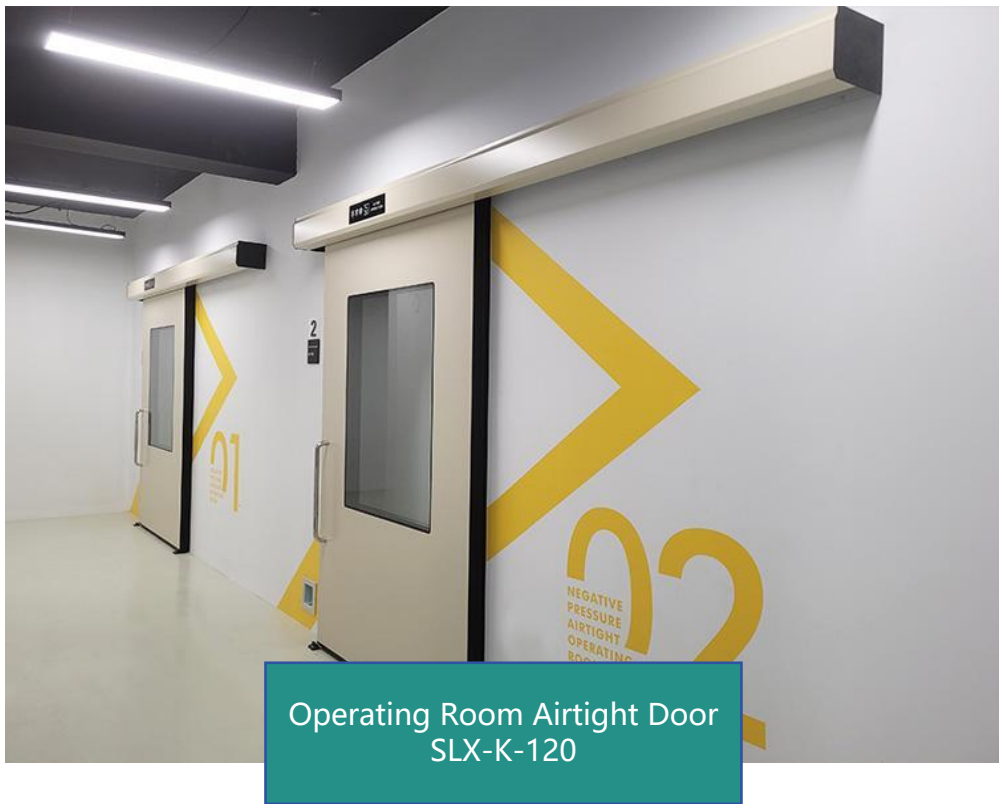
Technical Specifications

Door Operator Size (Height × Depth)	175×220mm
Maximum Door Operator Length	6000mm
Passage Width of Single Sliding Door (Minimum/Maximum)	500-2500mm
Passage Width of Two Sliding Doors (Minimum/Maximum)	500-4000mm
Maximum Height (Recommended Value)	3000-3500mm

Special for Central Operating rooms



Operating Room Airtight Door
SLX-K-120



Single and double airtight doors have the advantages of sliding doors while meeting the airtightness and special functional requirements of clean areas.

The sliding airtight door consists of one or two sliding door leaves, which open and close automatically. When open, it can reach the maximum passage distance matching the opening size; when closed, the rubber strips around the door leaf perfectly seal with the door opening. It can also be opened manually under specific circumstances.

To ensure perfect airtightness, when closed, the door leaf sinks 15mm and presses 10mm into the door frame, ensuring that the rubber strips closely fit the gaps around the door opening.

Technical Parameters

The sliding airtight door is a professional access solution specially provided by SLEEK for areas with special requirements for air cleanliness, such as clean areas in health care fields like hospitals and laboratories, and various sterile rooms in industrial environments.

Electrical Technical Specifications	
Standard Power Supply	220~240V±6% 50~60Hz
Optional Power Supply	100~120V±6% 50~60Hz
Motor	AC36V low-voltage AC motor (two units)
Rated Power	250W
Standby Power Consumption	<10W
Frequency Conversion Technology	PMSM (FOC Field Oriented Control Technology)
Fuse	3.15A (220V) / 5A (110V)
Operating Temperature	-20℃ to 50℃
Ambient Temperature	-20℃ to 50℃

Operating Parameters	
Adjustable Door Opening Speed	0.15 to 1m/s
Adjustable Door Closing Speed	0.15 to 1m/s
Maximum Acceleration	0.8-1.6m/s²
Maximum Door Weight (Airtight Single/Double Opening)	1×90Kg / 2×65Kg
Maximum Door Weight (Lead Door Single/Double Opening)	1×200Kg / 2×150Kg

Technical Specifications	
Door Operator Size (Height × Depth)	175×220mm
Maximum Door Operator Length	5900mm
Passage Width of Single Sliding Door (Minimum/Maximum)	495/1800mm
Passage Width of Double Sliding Doors (Minimum/Maximum)	1070/2660mm
Maximum Height (Recommended Value)	2400mm

Special for Central Operating rooms



Operating Room Airtight Door
(Two-Tone)
SLX-K-120-COL



Single and double airtight doors have the advantages of sliding doors while meeting the airtightness and special functional requirements of clean areas.

The sliding airtight door consists of one or two sliding door leaves, which open and close automatically. When open, it can reach the maximum passage distance matching the opening size; when closed, the rubber strips around the door leaf perfectly seal with the door opening. It can also be opened manually under specific circumstances.

To ensure perfect airtightness, when closed, the door leaf sinks 15mm and presses 10mm into the door frame, ensuring that the rubber strips closely fit the gaps around the door opening.

Technical Parameters

The sliding airtight door is a professional access solution specially provided by SLEEK for areas with special requirements for air cleanliness, such as clean areas in health care fields like hospitals and laboratories, and various sterile rooms in industrial environments.

Electrical Technical Specifications	
Standard Power Supply	220~240V±6% 50~60Hz
Optional Power Supply	100~120V±6% 50~60Hz
Motor	AC36V low-voltage AC motor (two units)
Rated Power	250W
Standby Power Consumption	<10W
Frequency Conversion Technology	PMSM (FOC Field Oriented Control Technology)
Fuse	3.15A (220V) / 5A (110V)
Operating Temperature	-20℃ to 50℃
Ambient Temperature	-20℃ to 50℃

Operating Parameters	
Adjustable Door Opening Speed	0.15 to 1m/s
Adjustable Door Closing Speed	0.15 to 1m/s
Maximum Acceleration	0.8-1.6m/s²
Maximum Door Weight (Airtight Single/Double Opening)	1×90Kg / 2×65Kg
Maximum Door Weight (Lead Door Single/Double Opening)	1×200Kg / 2×150Kg

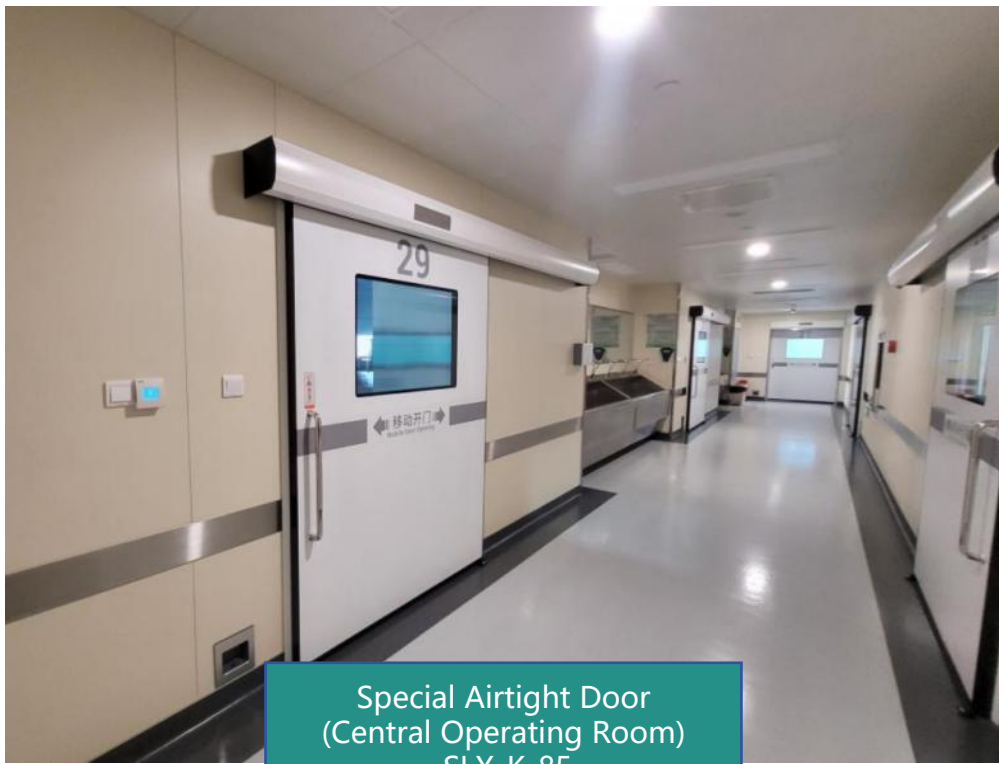
Technical Specifications	
Door Operator Size (Height × Depth)	175×220mm
Maximum Door Operator Length	5900mm
Passage Width of Single Sliding Door (Minimum/Maximum)	495/1800mm
Passage Width of Double Sliding Doors (Minimum/Maximum)	1070/2660mm
Maximum Height (Recommended Value)	2400mm



Special for Central Operating rooms

Special Airtight Door
SLX-K-85





Single and double airtight doors have the advantages of sliding doors while meeting the airtightness and special functional requirements of clean areas.

The sliding airtight door consists of one or two sliding door leaves, which open and close automatically. When open, it can reach the maximum passage distance matching the opening size; when closed, the rubber strips around the door leaf perfectly seal with the door opening. It can also be opened manually under specific circumstances.

To ensure perfect airtightness, when closed, the door leaf sinks 15mm and presses 10mm into the door frame, ensuring that the rubber strips closely fit the gaps around the door opening.

Technical Parameters

The sliding airtight door is a professional access solution specially provided by SLEEK for areas with special requirements for air cleanliness, such as clean areas in health care fields like hospitals and laboratories, and various sterile rooms in industrial environments.

Electrical Technical Specifications	
Standard Power Supply	220~240V±6% 50~60Hz
Optional Power Supply	100~120V±6% 50~60Hz
Motor	AC36V low-voltage AC motor (two units)
Rated Power	250W
Standby Power Consumption	<10W
Frequency Conversion Technology	PMSM (FOC Field Oriented Control Technology)
Fuse	3.15A (220V) / 5A (110V)
Operating Temperature	-20℃ to 50℃
Ambient Temperature	-20℃ to 50℃

Operating Parameters	
Adjustable Door Opening Speed	0.15 to 1m/s
Adjustable Door Closing Speed	0.15 to 1m/s
Maximum Acceleration	0.8-1.6m/s²
Maximum Door Weight (Airtight Single/Double Opening)	1×90Kg / 2×65Kg
Maximum Door Weight (Lead Door Single/Double Opening)	1×200Kg / 2×150Kg

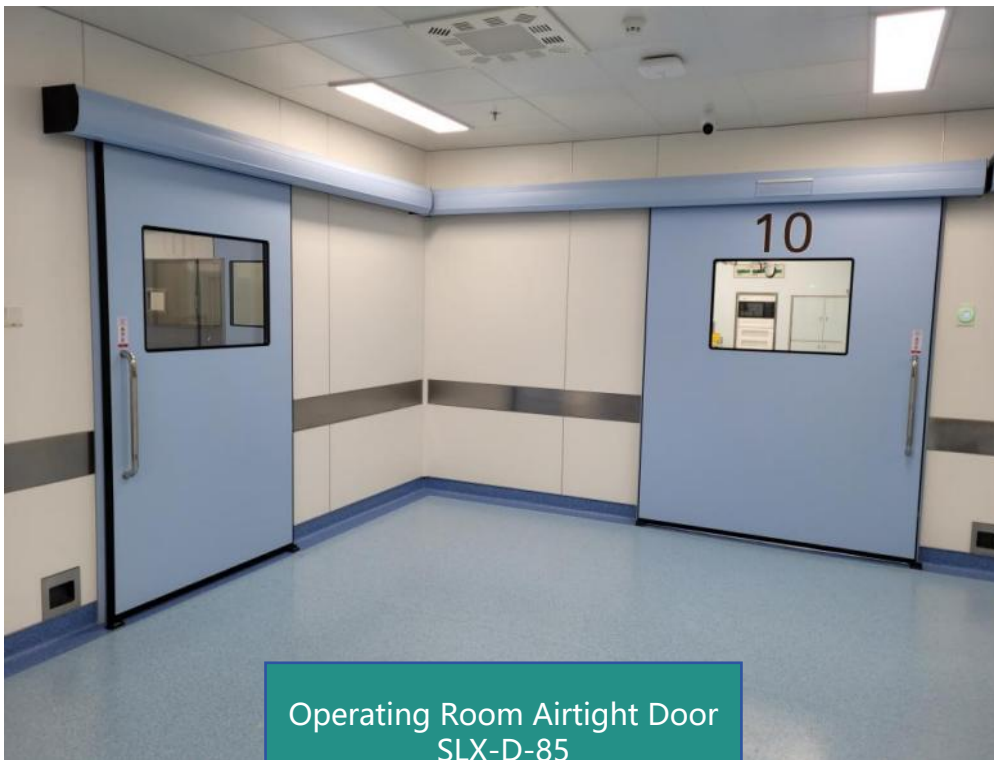
Technical Specifications	
Door Operator Size (Height × Depth)	175×220mm
Maximum Door Operator Length	5900mm
Passage Width of Single Sliding Door (Minimum/Maximum)	495/1800mm
Passage Width of Double Sliding Doors (Minimum/Maximum)	1070/2660mm
Maximum Height (Recommended Value)	2400mm

A photograph of a long, sterile hospital corridor. The walls are white, and the floor is a light blue. On both sides, there are blue doors with silver handles. A digital clock on the ceiling displays '20:32' in red. The corridor is well-lit by overhead fluorescent lights.

Special for Central Operating rooms



Operating Room Airtight Door
SLX-D-85



Application: Day surgery rooms.

The sliding airtight door consists of one or two sliding door leaves, which open and close automatically. When open, it can reach the maximum passage distance matching the opening size; when closed, the rubber strips around the door leaf perfectly seal with the door opening. It can also be opened manually under specific circumstances.

To ensure perfect airtightness, when closed, the door leaf sinks 15mm and presses 10mm into the door frame, ensuring that the rubber strips closely fit the gaps around the door opening.

Technical Parameters

This sliding airtight door is specially designed by SLEEK for day surgery rooms.

Electrical Technical Specifications

Standard Power Supply	220~240V±6% 50~60Hz
Optional Power Supply	100~120V±6% 50~60Hz
Motor	AC36V low-voltage AC motor (two units)
Rated Power	250W
Standby Power Consumption	<10W
Frequency Conversion Technology	PMSM (FOC Field Oriented Control Technology)
Fuse	3.15A (220V) / 5A (110V)
Operating Temperature	-20℃ to 50℃
Ambient Temperature	-20℃ to 50℃

Operating Parameters

Adjustable Door Opening Speed	0.15 to 1m/s
Adjustable Door Closing Speed	0.15 to 1m/s
Maximum Acceleration	0.8-1.6m/s ²
Maximum Door Weight (Airtight Single/Double Opening)	1×90Kg / 2×65Kg
Maximum Door Weight (Lead Door Single/Double Opening)	1×200Kg / 2×150Kg

Technical Specifications

Door Operator Size (Height × Depth)	175×220mm
Maximum Door Operator Length	5900mm
Passage Width of Single Sliding Door (Minimum/Maximum)	495/1800mm
Passage Width of Double Sliding Doors (Minimum/Maximum)	1070/2660mm
Maximum Height (Recommended Value)	2400mm



Special for Central Operating rooms



Double Swing Airtight Door
SLW-2-steel



Application: Day surgery rooms, central operating rooms, etc.

Double-leaf symmetric design: Adopts a symmetric swing structure with two door leaves on the left and right. When opened, they can open to both sides, providing a large passage width (usually customizable to 1.2-2.4 meters), facilitating equipment transportation (such as surgical carts, production material turnover carts) or multiple people entering and exiting simultaneously, solving the limitation of narrow passages in single-leaf airtight doors.

Gap between double leaves: A "butt joint sealing" structure (such as concave-convex design or intermediate sealing strip) is set to avoid the gap between the two leaves when closed from becoming an air leakage point, which can effectively block air in areas with high pressure gradients (such as positive pressure clean areas).

Technical Parameters

The double swing airtight door is a solution specially provided by SLEEK for operating rooms with special space requirements. For applications in special space operating rooms and standard applications in Class 100 operating rooms, choosing double swing airtight doors is the best choice to solve the space application of operating rooms.

Electrical Technical Specifications	
Standard Power Supply	220~240V±6% 50~60Hz
Optional Power Supply	100~120V±6% 50~60Hz
Motor	DC24V DC (with door-closing function)
Rated Power	67W
Standby Power	13W
Fuse	3.15A (220V) / 5A (110V)
Operating Temperature	-15℃ to 50℃
Ambient Temperature	-15℃ to 50℃
Maximum Noise	<15dB

Operating Parameters	
Adjustable Door Opening Speed	≤1m/s
Adjustable Door Closing Speed	0.15 to 0.6m/s
Maximum Acceleration	0.8m/s²
Maximum Door Weight (Airtight Single/Double Opening)	1×90Kg / 2×65Kg
Maximum Door Weight (Lead Door Single/Double Opening)	1×200Kg / 2×150Kg

Technical Specifications	
Door Operator Size (Height × Depth × Width)	600×85×124mm
Maximum Door Operator Length	1200mm
Passage Width of Single Sliding Door (Minimum/Maximum)	1500mm
Passage Width of Double Sliding Doors (Minimum/Maximum)	1000mm
Maximum Height (Recommended Value)	2500mm



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