

MEDICAL SHIELDING EVO™ AIR MRI DOOR



EVO Door



EVO Door Shown with
Optional Window

EVO AIR MRI DOOR

- **Easy-open, Lever-style Handle**
- **Flat Threshold**
- **Obscured Seals, Seals Automatically**
- **Available in RF-Shielded and Acoustic Configurations, Single or Double Door**
- **Excellent for New or Existing Construction**
- **Automatic Door Opener/Closer (Optional)**
 - Convenient Push Button Activation
 - Optional Timed Program for Automatic Closure
 - Automatic Operation can be Linked to Keypad Entry
 - Safe Operation
 - Hold Open Feature Included
- **ClearShield™ Window (Optional)**
- **Safe IV Port (Optional)**
 - Provides Safe Passage of Patient-Connected IV Lines Through EVO Shielded Doors
 - Keeps Infusion Pumps and Other Mechanicals Outside of the MRI Room
 - Allows Fully Closed Operation of RF Shielded Door
 - Maintains RF Attenuation Capability of the RF Shield
 - Port Size Allows for Multiple IV Lines (up to 12 Standard Lines)

ETS-Lindgren's EVO Air MRI Door brings breakthrough technology to MRI environments with its lightweight, high-performance shielded door, engineered for ease and reliability. Available in three configurations—RF-Shielded, Acoustic, and Dual Leaf—each EVO Air Door features a pneumatically operated, gasket-free, bladder-free, and finger-free RF sealing system. This advanced design minimizes maintenance requirements while ensuring superior reliability and effortless operation.

Product Features

Smooth and Reliable Sealing, Effortless Operation

Unlike traditional RF doors, which require substantial force due to friction-based RF seals, the EVO Air Door eliminates these forces. This innovative design ensures a smooth, easy-open, easy-close operation that's highly reliable. The door automatically seals upon closing, with an intuitive logic mechanism activated directly by the handle. The EVO Air operates on standard 115 VAC power and uses clean, dry shop air at 60 to 120 psi (or equivalent international standards).

Safety-First Design

The EVO Air features a flat threshold, facilitating smooth patient transport. ADA-compliant latch and lock mechanisms, an optional emergency open button, and a fail-safe logic and controller system ensure safe operation. In case of power or air pressure loss, the door defaults to the open position. The door's logic system can integrate with additional security features, such as card readers, magnetic locks, and door closers. Built with durable stainless steel and an ADA-compliant flat threshold, the EVO Air combines functionality with aesthetics for easy, safe operation.

RF-Shielded Configuration

The EVO Air RF-Shielded Doors provide 100 dB attenuation across frequencies up to 450 MHz, making them ideal for environments like surgical MRI suites. The doors feature attractive hardware, a laminate finish, and an automatic sealing mechanism to enhance both functionality and visual appeal.

Options

Acoustic Door Option

Engineered for superior STC (Sound Transmission Class) ratings, the EVO Air Acoustic Door effectively reduces noise transmission to adjacent rooms. Its specialized acoustical seals, core materials, and weight offer outstanding sound isolation with minimal operating forces and automatic RF sealing. Available in STC ratings of 32 and 44.

Automatic Door Opener/Closer Option

ETS-Lindgren's Automatic Door Opener/Closer (AOC) delivers convenient, hands-free access to the MRI room, with customizable timing for both opening and closing. This efficient, smooth-operating system enables technicians to focus on patient care while enhancing workflow. Additionally, the AOC can integrate with a customer-supplied card reader to work seamlessly with your facility's security protocols.

The AOC is engineered for reliable, high-traffic use, reducing wear and extending maintenance intervals on your MRI door. In the event of power loss or emergencies, it allows for manual operation. Equipped with an advanced microprocessor controller and sensor system, the AOC guarantees safe, reliable operation without the need for moving parts, ensuring long-lasting performance.

ClearShield Window Option

Factory-installed ClearShield windows turn an EVO door into a viewing portal, giving techs and clinicians crisp visibility while preserving the room's RF integrity. Both standard ClearShield and S-Glass options invite more light, better workflow, and a calmer patient experience without compromising shielding performance.

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AUTOMATIC DOOR OPENER/CLOSER (AOC)



SAFE IV PORT (SIVP)

Safe IV Port Option

ETS-Lindgren's Save IV Port (SIVP) provides a secure, RF-shielded passageway for intravenous (IV) lines into MRI rooms, ensuring patient care and uninterrupted imaging quality. Specially designed for EVO Shielded Doors, the SIVP enables infusion pumps and other medical equipment to remain safely outside the MRI room while staying fully connected to the patient inside.

Previously, performing an MRI on patients with IV lines posed significant challenges for maintaining a safe and effective MR environment. IV lines either had to be disconnected and reconnected, or left disconnected entirely during the scan, creating patient care and workflow issues. When facilities attempted to keep medical equipment outside by threading IV lines through the MRI door, the RF shield was compromised, leading to electromagnetic interference (EMI) and degraded image quality.

With the SIVP, medical equipment can stay outside the MR room, the RF shield is fully intact, and high-quality imaging is maintained without disruption.

NOTE: The SIVP is a factory-installed option available only on new EVO Doors. Please contact your ETS-Lindgren representative for more information on EVO Doors and the SIVP accessory.

Standard Configuration

- Easy-open, Lever-style Handle
- Piston-driven
- Concealed Seals
- Inherent Acoustic Properties
- Flat Threshold
- Easy Clean Threshold

Options

- Windows
- Magnetic Lock
- Keypad
- Blow-out Panel
- Automatic Open/Close
- Safe IV Port
- Lead (Radiation) Shielding
- Magnetic Shielding

MEDICAL SHIELDING EVO™ AIR MRI DOOR

Technical Specifications

Performance

Plane Wave	100 dB @ 100 MHz to 300 MHz, 90 dB @ 450 MHz, 40 dB @ 1 G
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Physical

Nominal Sizes ¹	0.91 m x 2.13 m (3 ft x 7 ft)
	1.22 m x 2.13 m (4 ft x 7 ft)
	1.57 m x 2.13 m (5 ft x 7 ft)

Automatic Door Opener/Closer

Electrical

Power Requirements	120 VAC, 5 Amps Minimum
Drive Train	1/4 HP DC Motor, Gear Drive, Ball Screw Actuator, Rack and Pinion

Physical

Header Size	15.24 cm (6 in)
Swing Door Panels	Up to 157.5 cm (60.0 in) Wide

¹Available in additional sizes, and single and double door configurations.

EVO™ Air Shielding Effectiveness

ETS-LINDGREN
An ESCO Technologies Company

