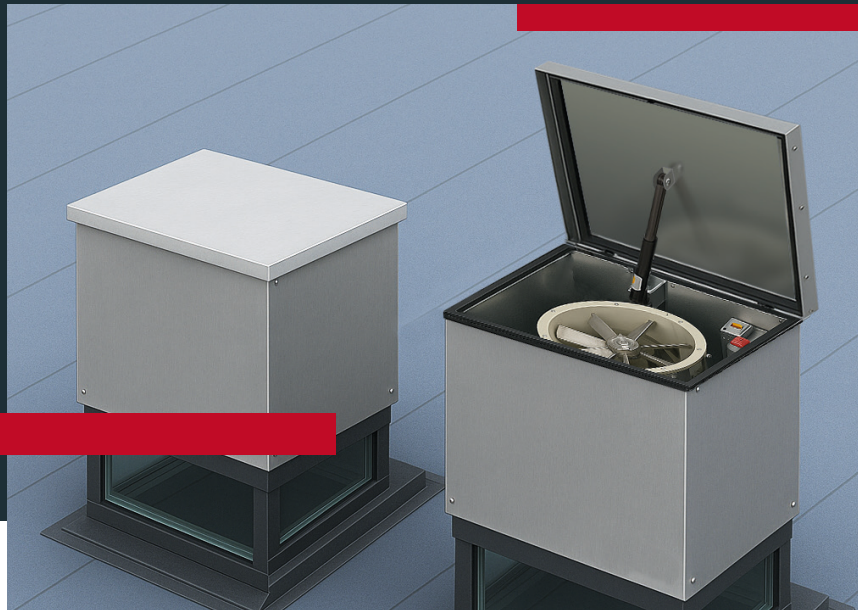


**MRA-S**

# Mechanical Smoke and Heat Heat Exhaust Ventilation Systems special version



Mechanical Smoke and Heat Extraction Systems as Custom Solutions (MRA-S) are specifically designed for environments where standard solutions are insufficient. These include deep-freeze storage rooms, food processing facilities, chemical production plants, and explosion-protected areas (ATEX zones). These tailored systems ensure reliable smoke and heat extraction under extreme conditions without compromising the temperature or safety requirements of the respective operation.

**Typical Applications**

MRA-S systems are used in environments with specific climatic or safety-related requirements. In deep-freeze and cold storage rooms, extraction systems must function reliably even at temperatures as low as -40 °C. In the food and chemical industries, corrosion-resistant materials are necessary to withstand aggressive environments. Additionally, MRA-S offers a safe solution for explosion-protected areas (ATEX zones), where the highest safety standards must be met.

**Customized Design for Extreme Environments:**

Materials and technology are tailored for low temperatures, high humidity, or aggressive substances.

**CE CERTIFIED**  
**EN 12101-3****Standards-Compliant and Certified:**

Systems comply with EN 12101-3, ATEX directives, or HACCP standards for food and chemical applications.

**Temperature-Resistant Solutions:**

Special versions designed for use in deep-freeze areas down to -40 °C.

**Corrosion-Resistant Materials:**

Stainless steel or coated aluminum prevent rust in humid or chemically exposed environments.

**Explosion-Proof Components (ATEX):**

Safe operation in hazardous areas through specially developed fans and control systems.

**Energy-Efficient Operation:**

In addition to smoke extraction, MRA-S systems can be used for daily ventilation or heat recovery.

**Integrated Control Systems:**

Compatible with building management systems, air supply units, and fire protection systems for a comprehensive safety concept.

**Project Coordination with Authorities:**

Planning in close consultation with relevant authorities to meet legal requirements.

**Custom-Built Solutions:**

Tailored to specific operational needs and structural conditions.

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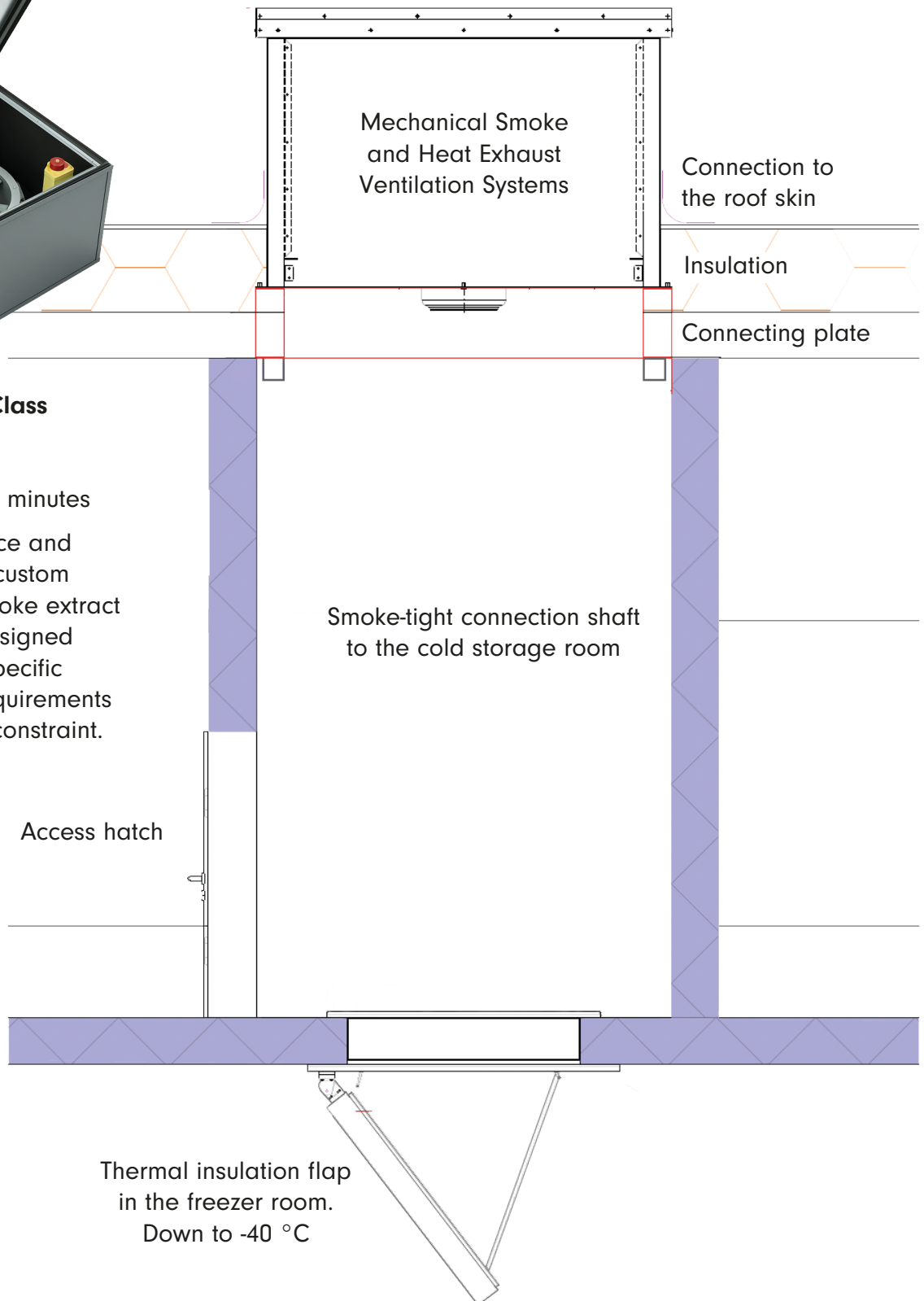
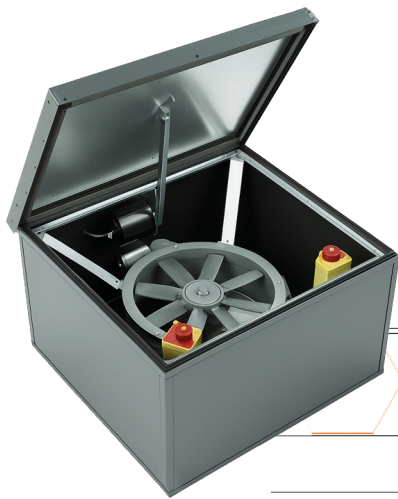
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### Temperature Class

F400 / 120

Max. 400°C

for at least 120 minutes

The performance and dimensions of custom mechanical smoke extract systems are designed according to specific operational requirements and structural constraint.