



The benefits of genuine Johnson Controls Sabroe® parts



Sabroe compressors are world-renowned for their durable, energy-saving performance. Using genuine Sabroe parts for compressor maintenance in marine environments is more cost-effective, more reliable and more environmentally responsible than using non-original alternatives.

Performance and efficiency

Genuine Sabroe parts deliver lower energy consumption and higher operating efficiency. Tests showed that compressors with non-original parts consumed 7–10% more energy under normal conditions, with even greater differences in warmer climates.

Quality and reliability

Non-original parts failed to meet Johnson Controls' standards for dimensions, tolerances, and surface treatments. This led to assembly difficulties, increased wear, and a higher risk of breakdowns. Genuine parts, by contrast, showed minimal wear and maintained reliability over time.

Environmental impact and efficiency

Non-original parts increase energy consumption, which leads to higher oil usage and higher CO₂ emissions. Even the smallest compressor with copy parts can emit an extra 11,000 kg of CO₂ per year – the equivalent of two mid-size cars driving 35,000 km each. This higher energy use also means any apparent saving on non-original parts is quickly offset by increased operating costs over time.

Maintenance and service life

Using genuine parts extends service intervals and reduces the risk of costly breakdowns. This document emphasizes the importance of following manufacturer recommendations for maintenance to ensure energy efficiency and reliable operation.

Supply and support

Johnson Controls offers a robust supply chain for genuine parts, with a main center in Denmark and global hubs, ensuring quick delivery and 24-hour emergency support.

Regulation and compliance

Johnson Controls supports compliance with strong documentation and material transparency for genuine parts. This includes paperwork confirming the materials used and helping verify the absence of restricted substances such as asbestos and lead. For customers operating in regulated marine and industrial environments, that traceability helps reduce compliance risk, supports inspections and gives them greater confidence that replacement parts align with expected standards.

FAQ: Genuine Sabroe parts from Johnson Controls

1. What are the main advantages of using genuine Sabroe parts?

- Genuine Sabroe parts result in lower energy consumption, higher efficiency and longer service lifetimes compared to non-original parts.
- They ensure higher reliability and allow for scheduled maintenance, reducing the risk of unexpected breakdowns.

2. How was the performance of genuine parts tested against non-original parts?

- Johnson Controls conducted controlled tests using SMC 100 series compressors, running both genuine and non-original parts for 1,000 hours.
- All relevant parameters were monitored and results were verified by a third party.

3. What were the key findings from these tests?

- Non-original parts did not meet quality standards for dimensions, tolerances or surface treatment.
- Power consumption increased significantly with non-original parts (7–10% higher energy use under normal conditions).
- Non-original parts showed greater wear and had a shorter estimated service life.

4. What is the payback time for using genuine parts?

- Even if non-original parts were free, the energy savings from genuine parts result in a quick payback due to lower operating costs.

5. How do genuine parts impact environmental sustainability?

- Using non-original parts increases energy consumption, which leads to higher oil usage and more CO₂ emissions.
- Even the smallest compressor with copy parts can emit approximately 11,000 kg of additional CO₂ per year, equivalent to two mid-size cars driving 35,000 km each.

6. What are the risks of using non-original spare parts?

- Incorrect dimensions and tolerances make assembly difficult and reduce reliability.
- Unknown part lifetimes and higher risk of major breakdowns can lead to costly repairs and downtime.
- There is a risk of regulatory issues, such as Port State Control, detaining a ship until repairs are made.

7. How do genuine parts affect the maintenance and operation of refrigeration plants?

- Genuine parts reduce the frequency of service intervals and the risk of breakdowns.
- Maintaining equipment according to manufacturer recommendations is crucial for energy efficiency and reliable operation.
- Energy costs make up about 80% of the total running costs of a refrigeration plant, so efficiency improvements have a significant financial impact.

8. How reliable is the supply of genuine Sabroe parts?

- Johnson Controls maintains a main parts centre in Denmark and several global hubs, enabling delivery of most parts within 24 hours.
- Over 7,000 parts are stocked and an emergency 24-hour service is available for urgent needs.

