



Jordan

50% of the AC systems on the market in Jordan are produced by local manufacturing companies under different brand names. The remaining half are imported from outside countries to meet a growing demand. Jordan has more than 400 workshops that provide maintenance and services to the refrigeration and air conditioning (RAC) sector.

The snapshot focuses on the following three cooling sectors, air conditioning, commercial refrigeration, and refrigerants.



Air conditioning

Market drivers



- Economic growth (affordability)
- Climate change
- New construction activities
- New regulations
- Increasing electricity prices

High market potential for cooling equipment sales is floor area in existing buildings that is not air conditioned yet.

960 000
existing AC systems
in 2020

110 000
sales of AC systems
in 2020

Residential sector



The AC market is strongly dominated by single split systems: 80% are single split systems (monetary terms) and are mainly sold to residential sector and small non-residential buildings.

80% of the floor area in residential buildings is not air conditioned

New buildings installing AC systems



Non-residential sector



Central systems are typically sold to retail, office, and healthcare buildings. Chillers are typically sold to big hotels, big hospitals, and shopping malls.

50% of the floor area in non-residential buildings is not air conditioned

New buildings installing AC systems



Energy efficiency



Energy Efficiency Ratio (EER)

3.0 Average EER rating of installed AC systems

Large potential for energy savings



Commercial refrigeration

Market drivers



For new installations

- Population growth
- Introduction of new technologies
- Economic growth
- New construction

For replacement segment

- Change in electricity prices
- Increased awareness of energy savings
- Economic feasibility

Predominant technologies



Market Share by Technology (share of units sold)

65%
Standalone systems

30%
Centralised systems

5%
Condensing units

85% of systems are locally manufactured with compressors being imported from major international manufacturers.

Refrigerant leakage



20–40% per year
Annual leakage rates are estimated to be in the range from **20%–40% in condensing units and centralised systems.**

Up to **100%** potential release
End-of-life management of refrigerants can be strengthened, as the absence of it can result in higher rates of release of the refrigerant into the atmosphere during disposal.

Refrigerants

100% of refrigerants imported

800 MT imported in 2020

Air conditioning



The main refrigerant used in the AC manufacturing sector was **R410A**, followed by **R134a**.

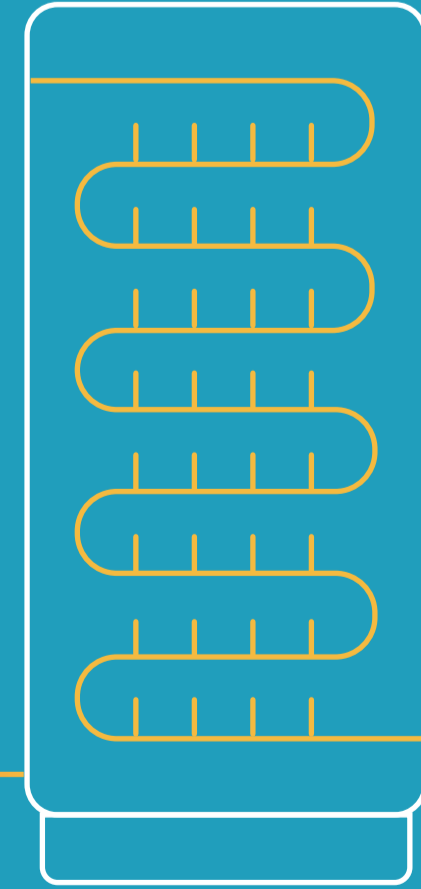
The refrigeration sector mainly used **R134a**, **R404A**, and **R407C**. The servicing sector mainly used **R134a**.

Commercial refrigeration



Most commercial refrigeration systems are manufactured in Jordan. They include refrigerants such as **R404A**, which can be primarily found in larger low temperature systems and **R134a** which is predominantly used for smaller and medium to low temperature systems.

Servicing equipment mostly employs **R134a**, **R407C**, **R410A**, **R600a**, and **R717** for the newly installed units.



More information

Main report

This snapshot is based on the report:

Cooling Sector Status Report Jordan:

Analysis of the current market structure, trends, and insights on the refrigeration and air conditioning sector
March 2022

To download the full report, click on the following link:
bit.ly/CU-CoolSecStat-J