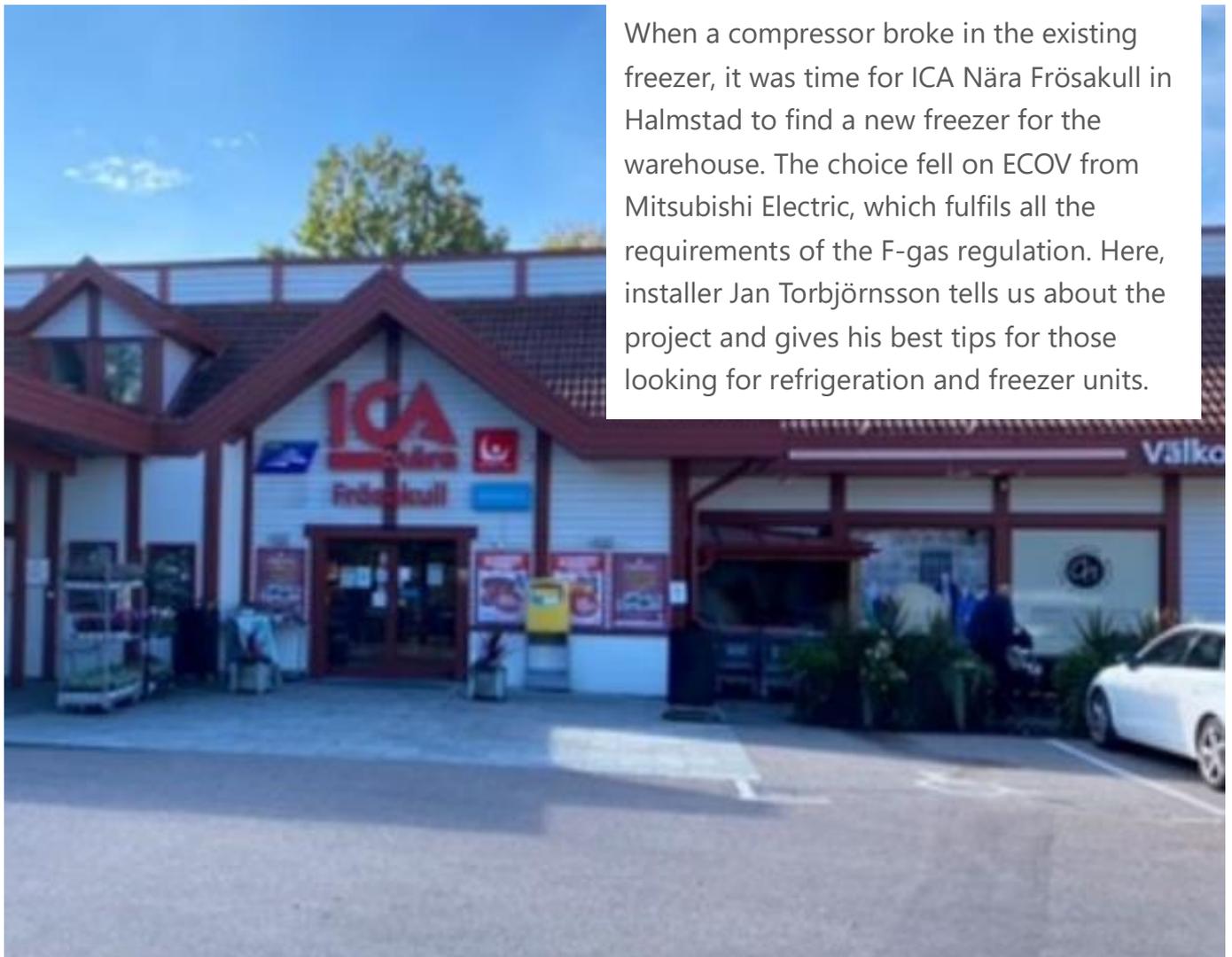


## Case Study

# ICA Nära Frösakull choice for the future: A CO<sub>2</sub> Freezer



When a compressor broke in the existing freezer, it was time for ICA Nära Frösakull in Halmstad to find a new freezer for the warehouse. The choice fell on ECOV from Mitsubishi Electric, which fulfils all the requirements of the F-gas regulation. Here, installer Jan Torbjörnsson tells us about the project and gives his best tips for those looking for refrigeration and freezer units.

In the Japanese market, Mitsubishi Electric is one of the largest in commercial refrigeration and freezing. Now that part of the range is available on the Swedish market, Jan Torbjörnsson, installer at Kyl & Värmepumpsservice in Halmstad, became interested.

- "Since we sell other products from Mitsubishi Electric, I know that they make well thought-out products that last and are of high quality. I immediately felt that this ECOV refrigeration and freezer unit was interesting for ICA. Since it has CO<sub>2</sub> as a refrigerant, the GWP value is only 1. I think this is a sustainable choice for the future with very little environmental impact," he says.

ECOV's energy-efficient heat recovery is another environmental benefit. It offers the potential to save large amounts of energy, as the excess heat can be used to pre-heat domestic hot water or to heat premises.



Operational reliability is essential in refrigeration and freezing plants to avoid spoiling goods and losing money. ECOV is a mass-produced unit - in the best sense of the word.

With Japanese mass production comes traceability, optimised manufacturing processes with rigorous factory quality controls that make the machines long lasting and safe to operate.

### Quality through and through

At ICA Nära Frösakull, ECOV is used as a storage freezer. But by controlling the evaporation temperature, the unit can just as easily be used as a refrigerator. The noise level of the outdoor unit is low, making it easy to place. Indoor space can be optimised for sales and storage instead of machine rooms.

- It is a stable system with quality throughout. We have experience of other units from other manufacturers over the years that have not had the same quality. ECOV is well dimensioned and the right volume tanks are used. Something that many otherwise skimp on. Similarly, the compressors are generously dimensioned," says Jan Torbjörnsson.



### 3 tips for choosing a cooling and freezing unit

#### 1) Think long-term

#### 2) Think total economy

#### 3) Think versatility

"Otherwise, it is common with small compressors that in return have to run at high speed. Mitsubishi Electric's compressors are larger and therefore better from an energy point of view," says Jan Torbjörnsson.

- I must say that we are very pleased. It turned out really well, if I may say so.

Everything went smoothly throughout the process, from ordering and delivery to installation.

There were short lead times and good support from Mitsubishi Electric. But most important of all, the customer, ICA owner Filip Nordin, is very satisfied with the result.

#### 3 tips for choosing a cooling and freezing unit from Jan Torbjörnsson

Think long-term - Many refrigeration companies install refrigeration and freezer units that are approved today, but after a number of years these will have to be replaced as the rules are tightened until 2030. So make sure you make a future-proof choice today that meets all parts of the F-gas regulation.

Think total economy - Replacing refrigeration and freezing equipment is an investment but buy quality and you'll save money and hassle in the long run in terms of reliability, service life and operating costs.

Think versatility - Refrigeration systems have traditionally consumed a lot of energy.

Replacing them with modern systems can reduce energy consumption throughout the building. So look at what the refrigeration unit can offer in terms of heat recovery or other energy-saving features.

## Installation Summary

Outdoor units:

1 x ECOV-X37VA



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Note: Refer to 'Installation Manual' and 'Instruction Book' for further 'Technical Information'. The fuse rating is for guidance only and please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP:4). \*These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

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