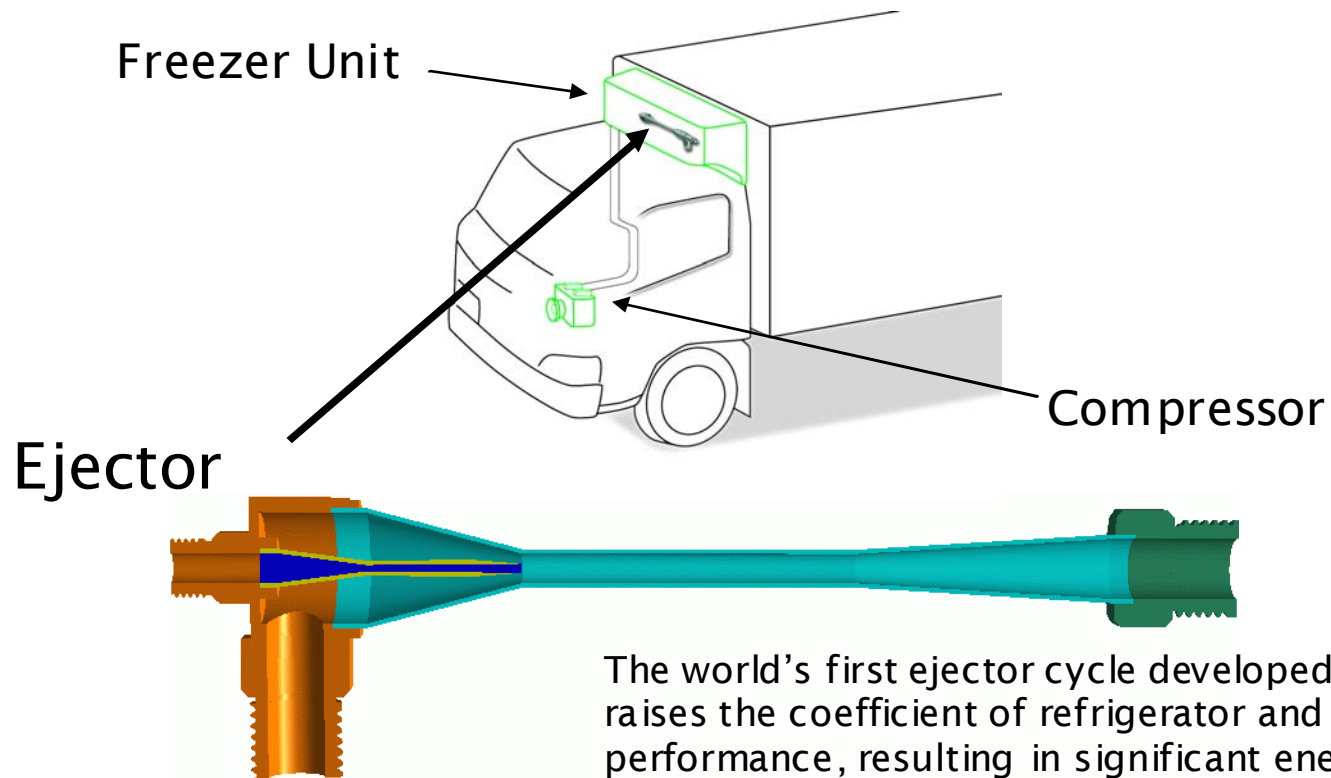


# Ejector Cycle

BENEFIT

Refrigerant cycle for improvement of the coefficient of performance and saving energy

**DENSO developed the ejector cycle as a new refrigeration cycle.**

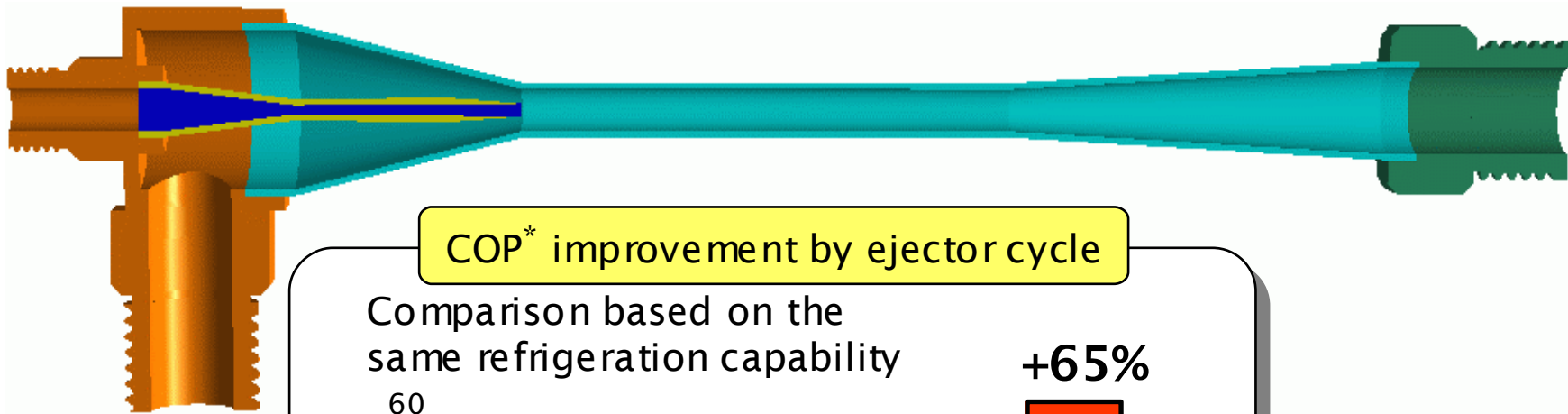


***DENSO***

# Ejector Cycle

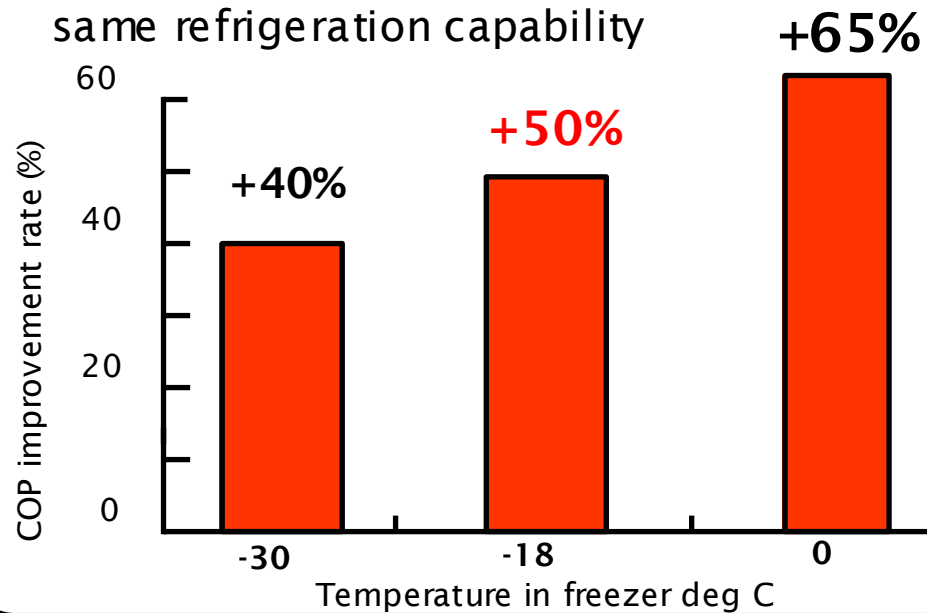
BENEFIT

Refrigerant cycle for improvement of the coefficient of performance and saving energy



COP\* improvement by ejector cycle

Comparison based on the same refrigeration capability



\* Coefficient of performance

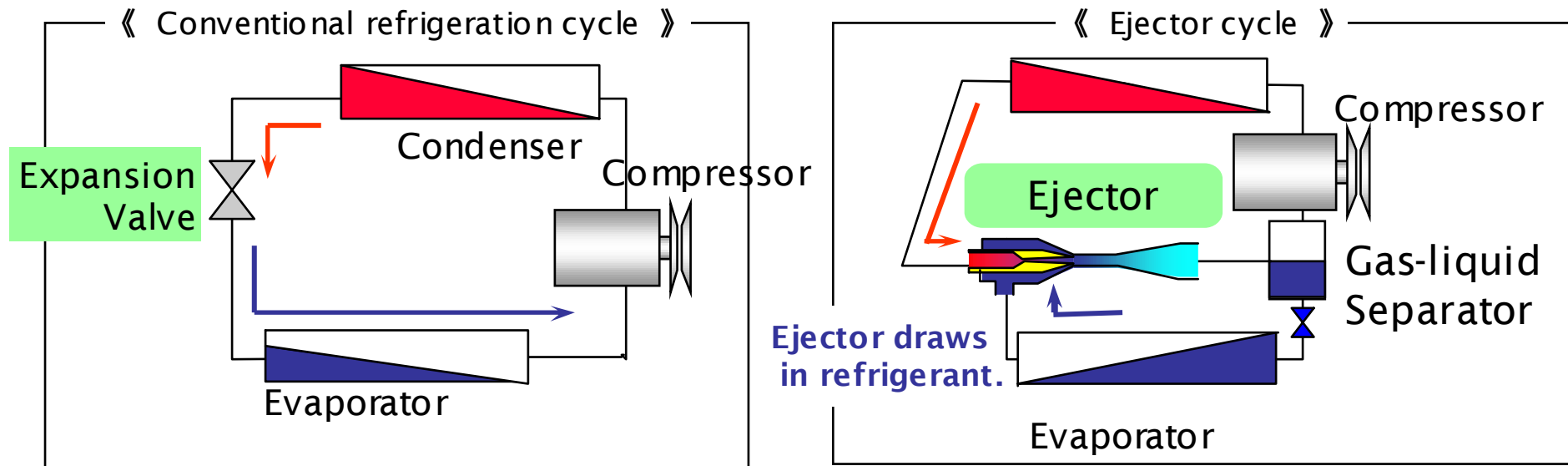
**DENSO**

# Ejector Cycle

TECHNOLOGY

Refrigerant cycle for improvement of the coefficient of performance and saving energy

What's an ejector cycle ?



The ejector is used instead of an expansion valve.

In the ejector cycle, the ejector has two functions: expansion of the liquid refrigerant, and pump-like circulation of the refrigerant.

The ejector has the following advantages compared to the expansion valve.

1. Can use energy, which is dissipated as swirl in the expansion valve.
2. Can reduce work of the compressor, since the ejector also works as a pump.

In a conventional refrigeration cycle, only the compressor circulates refrigerant. The ejector saves fuel or electricity for operating the compressor.

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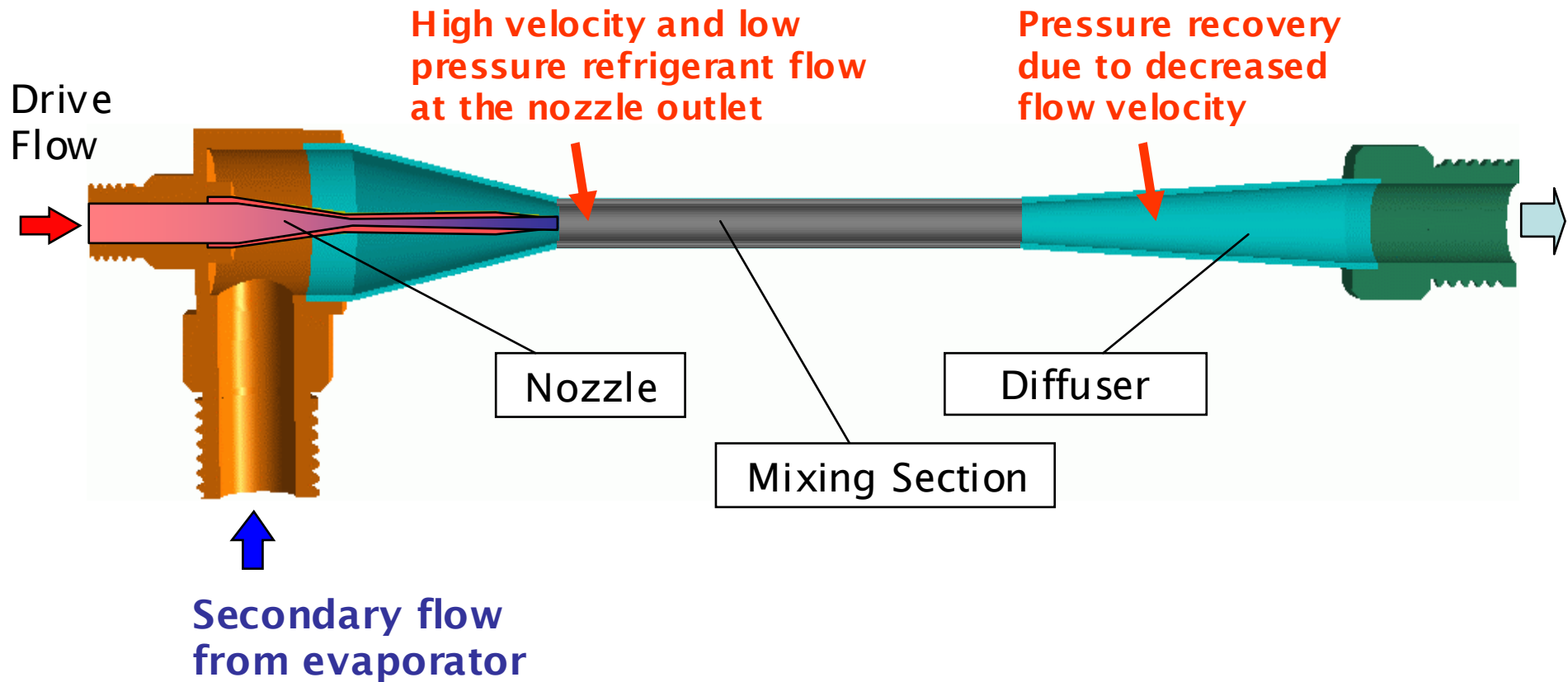
# Ejector Cycle

TECHNOLOGY

Refrigerant cycle for improvement of the coefficient of performance and saving energy

## Principle of the ejector

Ejector works as a pump without operating power



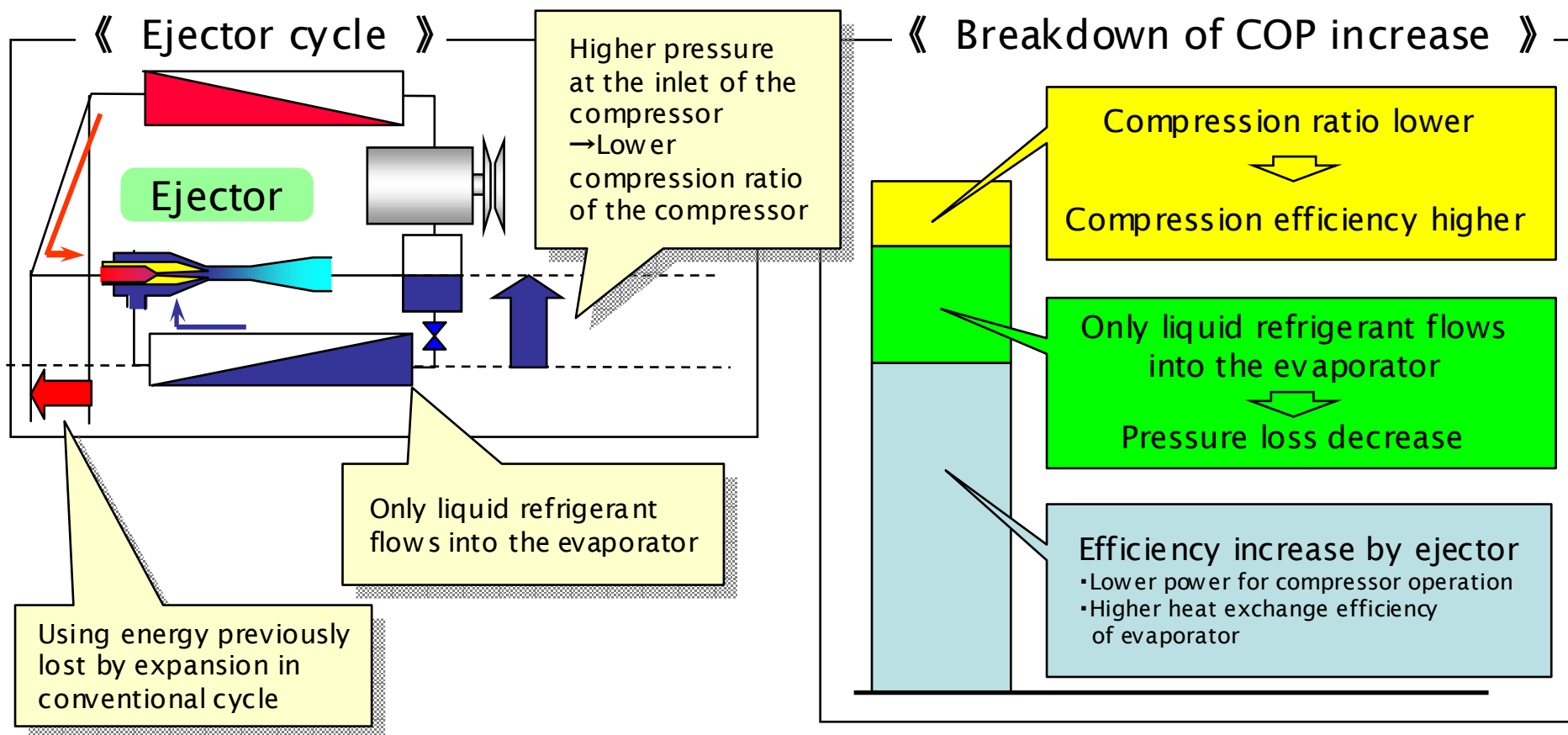
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# Ejector Cycle

TECHNOLOGY

Refrigerant cycle for improvement of the coefficient of performance and saving energy

## Principle of the COP increase by ejector cycle



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