



CO2 refrigeration system for small format retail stores or walk-in cooler in Europe

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Gaku Shimada Panasonic Corporation



Introduction

Product launching in Europe

Future Plan



> Introduction

Product launching in Europe Future Plan

Panasonic 4 business domains

Panasonic

Appliances

HA · Cold Chain · HVAC · Devices



TV Home Appliances Air Conditioner Store Showcases Refrigeration unit

Eco Solutions

Lighting House Equipment Environmental Engineering



Lighting Equipment Air Purifier & Ventilating Photovoltaic module Wiring device, etc.

Connected Solutions

AV • Network/Mobile communication



In-Flight Entertainment System PC/Tablet Security System, etc.

Automotive & Industrial Systems

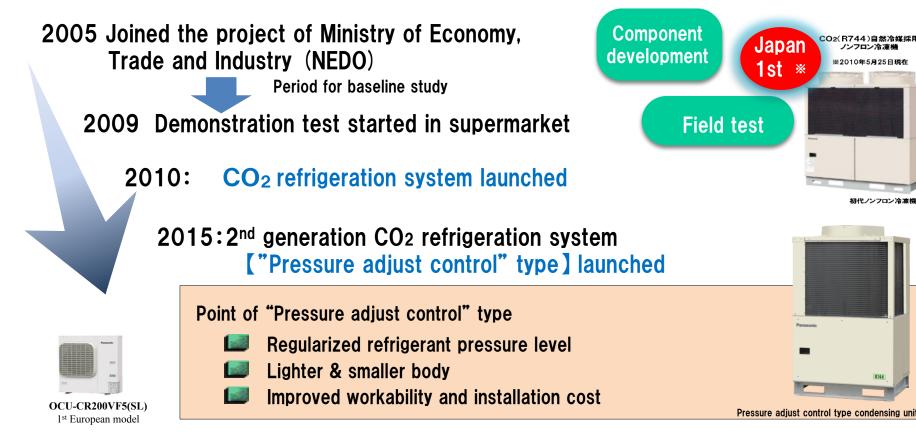
Automotive/Industrial devices components



Manufacturing Machines Batteries Components Automotive devices, etc.

CO2 refrigeration system development

2001 Production of CO2 Compressor for Heat Pump Water Heater



CO2 Product Made in Japan

- 1960~ R&D in Oizumi → 50+ year experience in HVAC&R
- 2001~ CO2 HP Production → 16 year of CO2 unit production Cumulated sales of TC CO2 Comp.: 700 thousands
- 2010~ CO2 OCU Production → Established Quality Control !!!

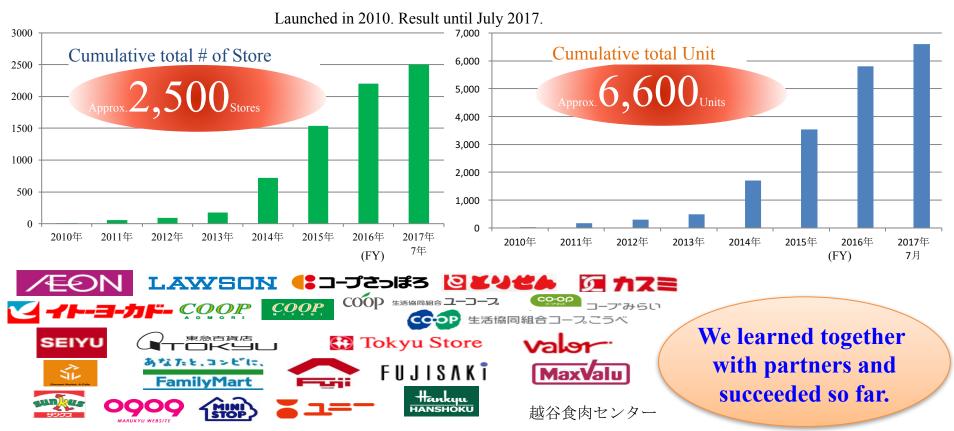


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Installation of TC CO2 System in Japan

Our partners CO2 system installation in Japan with Government support



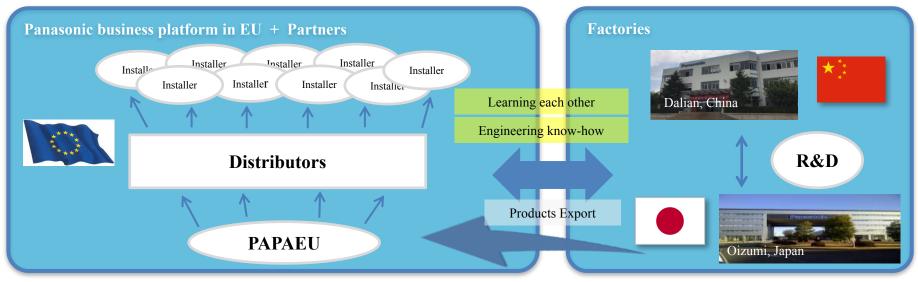


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Product launching in Europe

Challenge the most CO2 advanced European market with "Made-in Japan" CO2 technology !

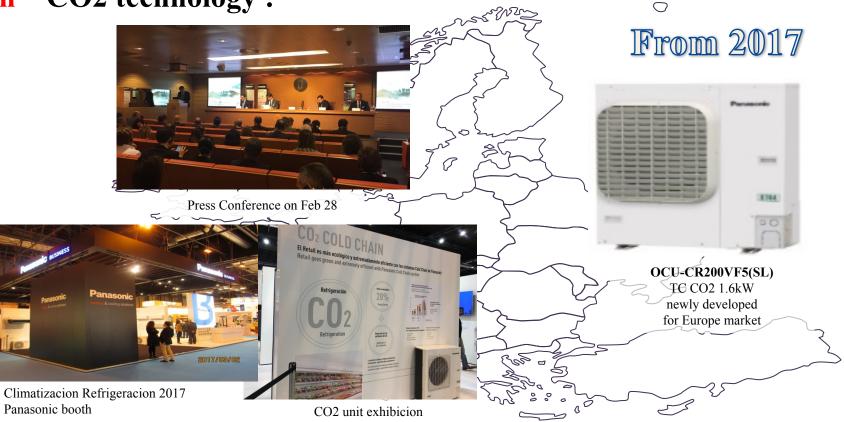


Deliver Cooling & Heating Products + TC CO2 Refrigeration



Product launching in Europe

Challenge the most CO2 advanced European market with "Made-in Japan" CO2 technology !



Introduction of OCU-CR200VF5(SL)

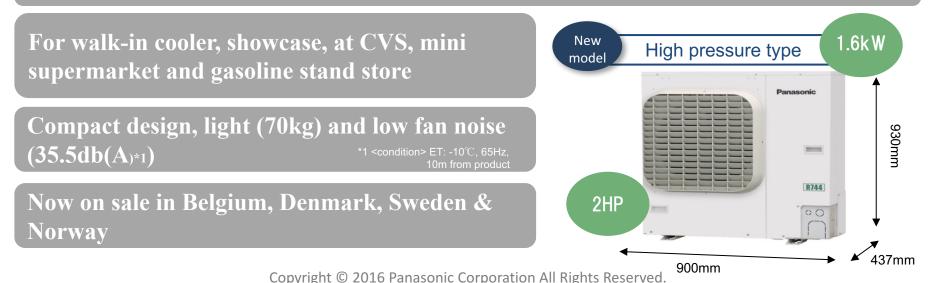
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Feature of OCU-CR200VF5(SL)

Outdoor Type 1.6kW CO2 Refrigeration Unit

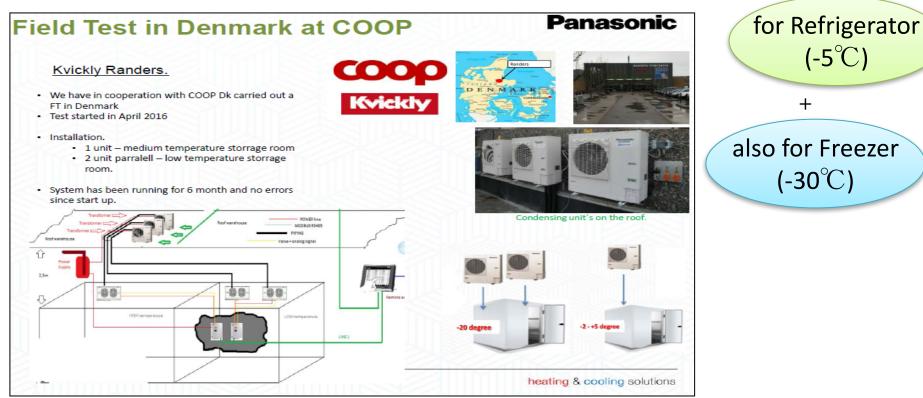
2-stage compression CO2 rotary compressor & split cycle

For Multi temperature application (ET -45°C \sim -5°C)



Reliability and Easy Commissioning are confirmed in Europe by 2-year FT.

Flexible layout by installing compact small capacity OCU!



Installation Training

Conducting installation training with customers



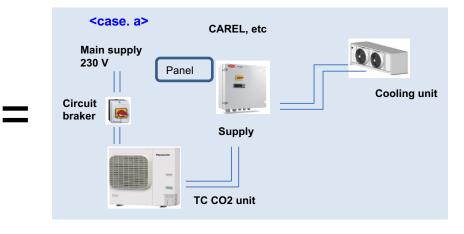


Introduction of OCU-CR200VF5(SL)

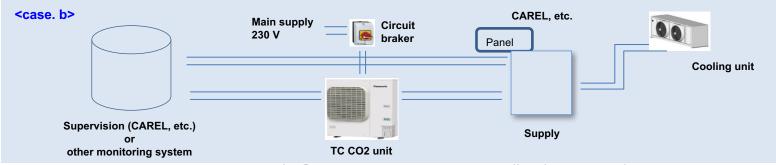
For easier installation and commissioning in Europe



a. Packaged Solution for easy commissioning



b. Working with local suppliers of Supervision



Actual installations of 2HP unit

Compact unit, Quick installation!





Setup kit (option offered by PAPAEU)



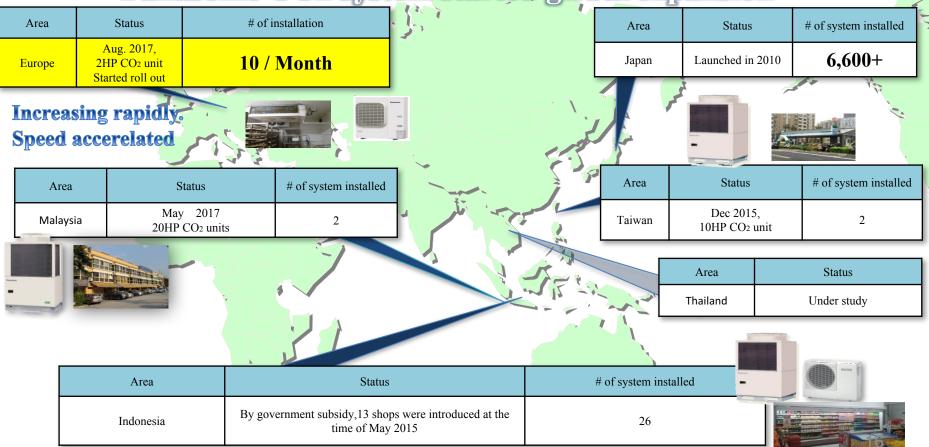
Voice1: Only a few settings and ready to start!

Voice2: Light weight! Easy installation!



CO2 System FT & installation by region

Panasonic CO2 system started global expansion



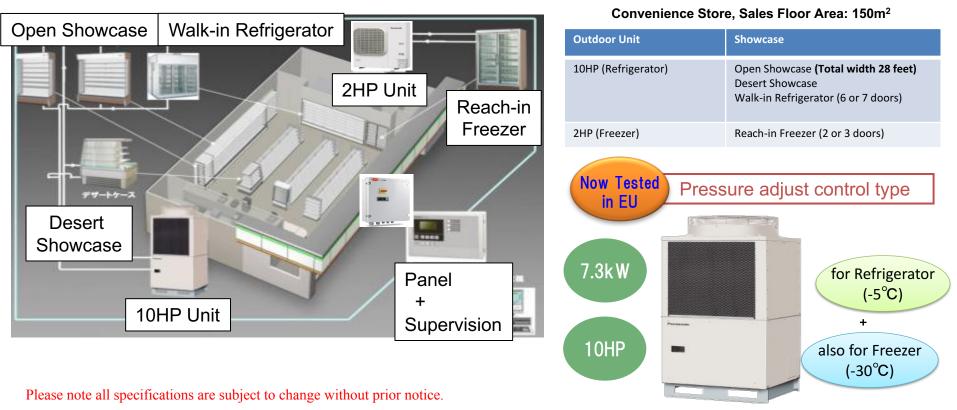
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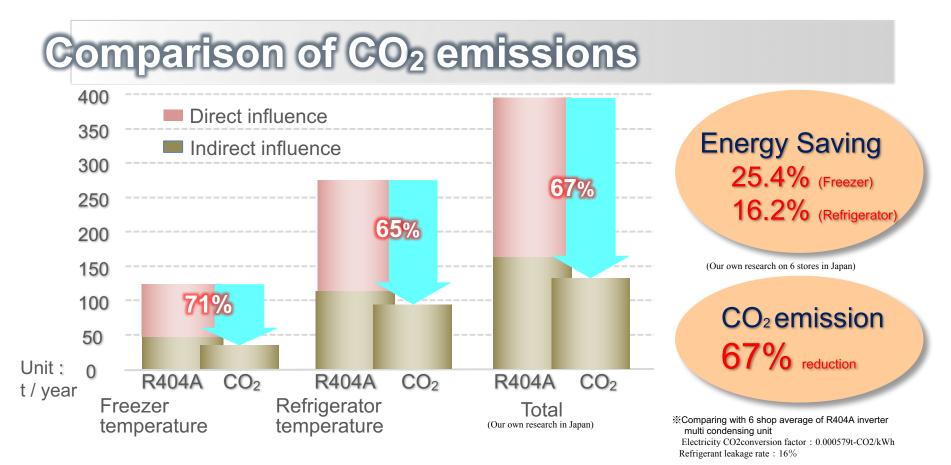
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What's next?

2HP + "New" 10HP cover most of small format stores.



Significant reduction of the annual CO₂ emissions





to help restore a beautiful Earth for future generations.

Panasonic aims to make "R744 refrigeration system" global standard by adopting CO₂ that has zero ODP and minimum GWP

Cooling Food shouldn't be Warming the Earth.

"Ecology" is the serious issue in the cooling food industries, especially supermarkets and convenience stores which are running for 24 hours a day and 365 days a year. Recently, Non Freon Refrigeration System adapted the natural refrigerant (CO₂) is making steady progress in Japan. Panasonic developed it by unique technologies of 2-stage compression rotary compressor & Split cycle, to aim at Zero Ozone Depletion & Greenhouse Effect by 1/4000 compared to HFC (R404A).

Panasonic was the first to adopt the natural refrigerant (CO₂) in refrigeration business in Japan.

That environmental performance is equivalent to about 67% reduction per year in CO₂ estimate.

Additionally, the remote monitoring and control services using Cloud were set up to make facilitate management of energy usage. We always pursue "Environmentally friendly products" from a various angles.



Panasonic





www2.panasonic.biz/es/cold-chain/cfcfree/

There is Panasonic you haven't known yet.

Wonders! by Panasonic

New lineup of CO2 Units

Panasonic's environmentally friendly CO2 cooling systems are green solution in all ways

This cooling system product line is Panasonic's environmentally friendly and reliable solution for the supermarket industry. Energy savings, the customer's feeling of safety and the environment have been the focus when developing these units. By choosing the Panasonic solution using a natural refrigerant, you may already be able to meet future European regulations regarding cooling systems today.

