

# An Introduction of Panasonic CO<sub>2</sub> refrigeration system and further development

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### **Our Vision**

Expanding customers "Better Life" in their next with our DNA as a consumer electronics manufacture





#### Panasonic environmental approach

Contribution for environmental problems through the business & expanding eco-activity with social empathy

**Eco activity** Our Taking action through social enpathy Realizing Water resource CO2 emission **Recycle** "Environmental conservation reduction Supply Local Customer Chain Society S Isn ainable ピスを通じて、CO2用 求を通じて、資源の有 効活用に取り組みます。 の保全に努めます。 滅に取り組みます Chemical Life's diversity substance effect guideline" reduction の環境価値を創出する 環境貢献活動を拡大し ケーションを深め、協 力して環境課題へ取り 商品・サービスを提供 S ociety 化学物質による人や環境 生物多様性への配慮と への影響を減らします。 その保全に努めます。 **Eco product & New energy Creation of Eco-friendly** CO<sub>2</sub> Sustainable city **ECONAVI** plant emission reduction Solar panel Smart city Fuel cell Storage battery

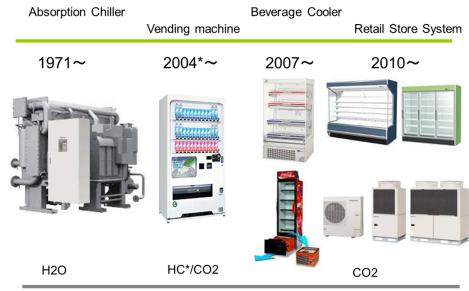


# Panasonic natural refrigerant products

#### **Consumer Market**

# Heat pump water heater 2001~ 2002~ CO2 HC Refrigerator

#### **Commercial Market**



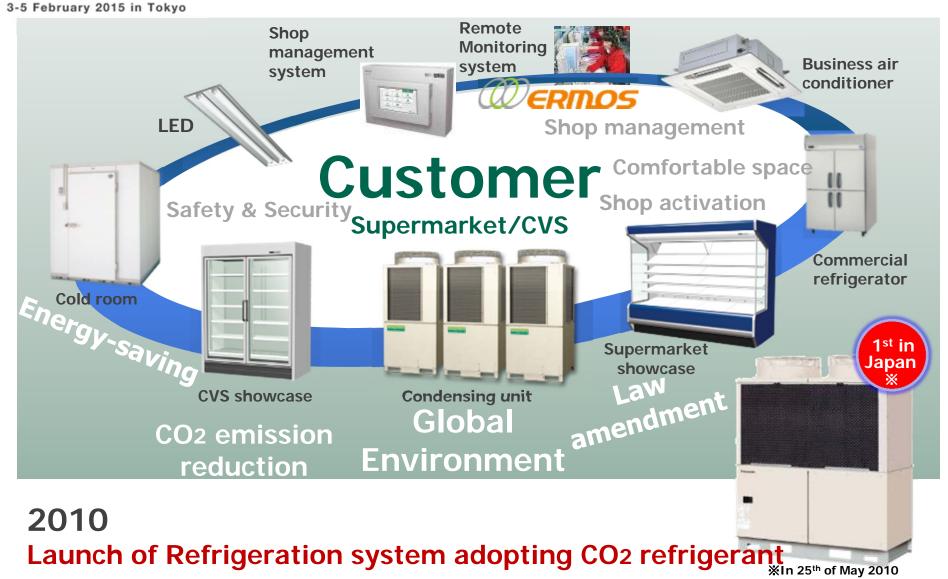
refrigerant

<sup>\*</sup>HC introduced for Vending machine since 2004



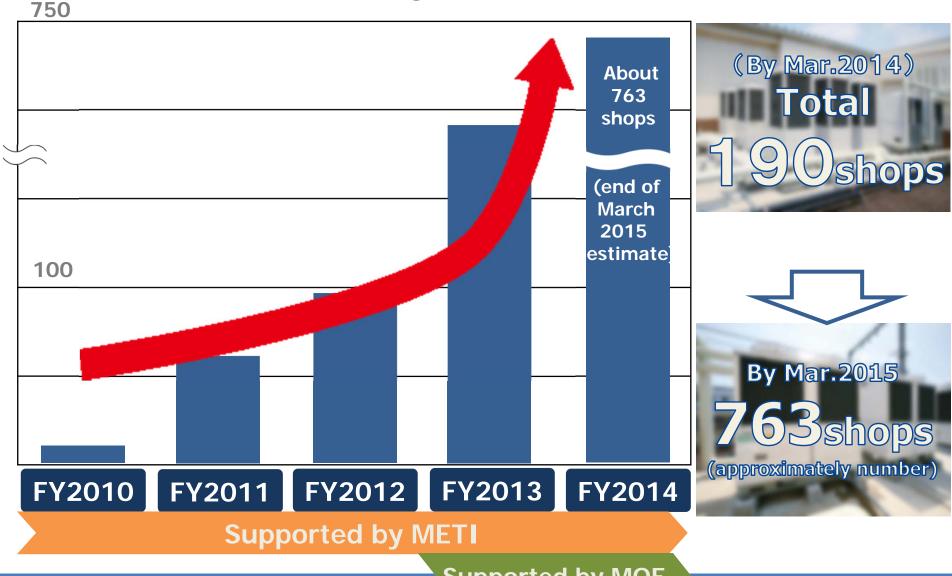
## Our challenge in Commercial Business

Various products and services for Eco-friendly shop











## CO<sub>2</sub> refrigeration system Customer portfolio in Japan

**Supermarket • Department store • Convenience store** 















































# **CO2** refrigeration system adopting shops in SE Asia

3-5 February 2015 in Tokyo











#### **Next Generation Products**

## "Pressure adjust control type"







**10HP** 

## Available from April 2015



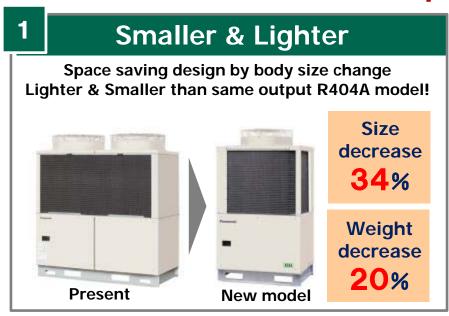
10HP Side flow type

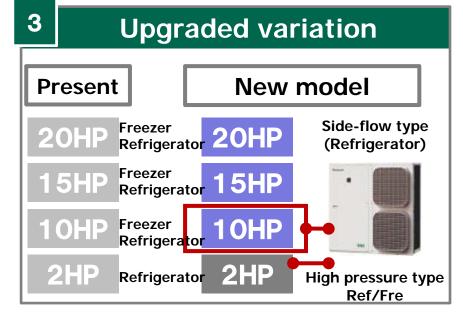


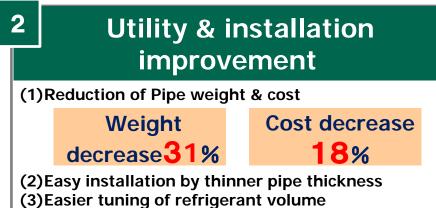
## Sphere Features of Pressure adjust control type CO<sub>2</sub> refrigeration system

3-5 February 2015 in Tokyo

#### New! Combination of 2 step expansion cycle & split cycle











# Aim to realize Natural refrigerant town, Tokyo in Olympic year 2020

3-5 February 2015 in Tokyo



From "The Tokyo Organising Committee of the Olympic and Paralympic Games"HP



solutions for asia

natural refrigerants

3-5 February 2015 in Tokyo

Thank you very much!