

The Japan Refrigeration and Air Conditioning Industry Association (JRAIA)

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1. What is JRAIA?

- ◆ **Established in 1949.**
- ◆ **Membership: 152 member companies as of 1st, May 2015**
incl. 52 supporting members
- ◆ **Sectors: refrigeration, air conditioners, heat pump,**
refrigerant, parts, equipment manufacturers ...
- ◆ **Turnover: more than 2Tr JPY(17Mr USD).**

2. JRAIA's Vision and Activities on Environmental Conservation

Energy Saving (Energy Efficiency)

Emission control on a
CO₂ basis

legislation

Top Runner Program

Direct Emission Control

- Promotion of recovery
- Measures against leakage
(proper management of
refrigerants)
- Reduction of amount
charged into equipment

Revised HFC Law

Home Appliances Recycling Law

End-of-Life Vehicle Recycling Law

Acceleration to shift to new refrigerants

- Use of none HFC
refrigerants
- Research of low GWP
refrigerants

3. Next generation refrigerants

3E+S

Safety(precondition)

- Low Toxicity
- Low Risk of Flammability

Environment Performance

- Ozone Depletion Potential =0
- Low Global Warming Potential

Energy Efficient

- Superior for LCCP value
- Similar performance at high load cooling

Economic Feasibility

- Reasonable Cost
- Acceptable level in Developing Countries

LCCP (Life Cycle Climate Performance)

