

1. HVAC&R JAPAN 2012

JRAIA held an exposition titled “HVAC&R JAPAN 2012” at the Tokyo International Exhibition Center (Tokyo Big Sight) for four days from 14 February through 17.

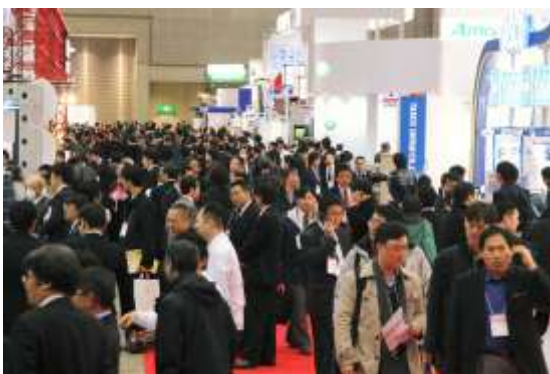
Under the theme “Temperature Technologies Bring about Breakthroughs,” HVAC&R JAPAN 2012, the 37th heating, ventilating, air conditioning and refrigerating exposition, took place with participation of 147 exhibitors, including 17 from overseas, and a total of 650 booths were used to display their world-leading, environmentally-friendly, and latest equipment, systems and solutions.



Concurrent events given during the expo were lectures, presentations by exhibitors, and a study tour of the district heating and cooling facility at Minato-Mirai 21 in Yokohama.

Opening Ceremony and Reception

From 9:50 am of 14 February, the first day of the expo, the opening ceremony was held in front of the entrance to the expo, and a ribbon-cutting ceremony was performed by guests, Mr. Toshimitsu Fujiki of METI and Mr. Huang Hui of CRAA, along with JRAIA Chairman Mr. Katsuhiko Fujiwara, JRAIA



Vice-Chairmen Mr. Shinya Okada and Mr. Akira Naka, and JRAIA Executive Committee Chair Mr. Kenji Akatani. From 11:00 am just after the opening ceremony was finished, a congratulatory reception was given at the Reception Hall. JRAIA Chairman Mr. Fujiwara, on behalf of the organizer, delivered the opening speech, which was followed by the congratulatory address by Mr. Fujiki of METI.

Speech of JRAIA Chairman Mr. Fujiwara

HVAC&R JAPAN expo dates back to 1956, marking the 37th event this year. In the year 1956 when the expo was held for the first time, Japan Atomic Energy Research Institute was founded, and then Japan’s nuclear power plant started its operation.

For more than half a century, we've hardly had much debate about energy sources although we've continued to pursue higher energy efficiency. However, the disastrous quake and tsunami last year completely changed our attitude toward Japan's energy policy. There will be a growing demand from the industry and household as well for products which are highly efficient, can operate with any type of energy source, and can satisfy various life styles.

Apart from this, there remain a lot of problems we have to tackle; for example, to work out effective measures to prevent global warming by refrigerants, and to develop products which are most environmentally-friendly and which can be completely recycled.

Under the theme "Temperature Technologies Bring about Breakthroughs," various control equipment covering all temperature ranges are on display. With these new products and technologies presented here, there will be new business opportunities as well as valuable information exchanges.

I hope HVAC&R JAPAN 2012 will help exhibitors make a great jump in their businesses and that Japan's refrigeration and air conditioning technology will continue to lead the world.

Number of Visitors

Tuesday, February 14	cloudy/rainy	6,525
Wednesday, February 15	cloudy/fair	7,441
Thursday, February 16	cloudy/snowy	8,408
Friday, February 17	cloudy/fair	7,182
Total visitors for four days		29,556

2. Meeting with AHRI

JRAIA had a meeting with Mr. Stephen R. Yurek, the president of AHRI, on 9 April 2012 in Tokyo. The purpose of this meeting was to exchange the latest information on the next-generation refrigerants for air-conditioning equipment.

During the meeting, participants renewed their awareness of key issues such as EU F-GAS regulation review, progress of A2L refrigerants risk assessment being conducted under the respective programs of USA and Japan, and concern about HC refrigerant risk in some countries.

In conclusion, they consolidated the alternative refrigerants policy that refrigerants should be evaluated by not only GWP but also comprehensive warming impact like LCCP, and re-confirmed to tackle the next-generation refrigerant issues in collaboration with industry associations in the world.

3. Meeting with DuPONT

JRAIA had two meetings with DuPONT in Tokyo to discuss several issues related to the next-

generation refrigerants.

The 1st meeting was held on 3 April 2012 with Mr. Mack McFarland from DuPONT.

In the meeting, the discussion was made on alternative refrigerants, the world movement of F-GASs regulations, HFC Cap& Reduction jointly proposed to MOP by North American three countries.

On 17 April 2012, the 2nd meeting was held with Mr. Greg M. Rubin who briefed about HCFC Phase-out Management Plan (HPMP), progress of EU F-GAS Regulation review, perspective of refrigerant conversion, HFO production plan and development of new refrigerants by DuPONT.

During the meetings, DuPONT gave us valuable information and JRAIA explained our policy that choice of the next-generation refrigerants should be made by not only GWP value but also comprehensive assessment of safety, performance, economical efficiency and so on, referring to index such as LCCP.

JRAIA works continuously with related enterprises and industry associations on the next-generation refrigerants.

4. Ozone2Climate Technology Road Show and Industry Roundtable

An Ozone2Climate Technology Road Show and Industry Roundtable was organized jointly by UNEP and CRAA from 11 to 13 April, 2012 in Beijing. Mr. Kishimoto, the President of JRAIA, was invited to this meeting. Also two Japanese were invited as a speaker. Mr. Eiji Hihara, Professor of University of Tokyo and Mr. Satoshi Sadatani of METI made presentations titled 'Performance Consideration in Adopting Zero-ODP and Low-GWP Refrigerants' and 'Japanese Industry-Government Partnership to protect Ozone Layer and the Climate for future generation' respectively.

5. RAC and PAC Domestic Shipments

RAC shipments in January showed a 15% drop from the same month of 2011, however, it was the second highest since JRAIA started the statistics. Heat Pump demand for heating due to the cold winter across the country seems likely to push up the shipments.

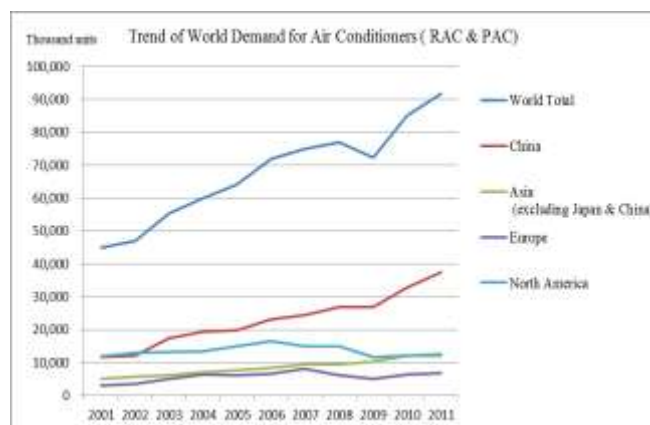
Reconstruction demand from the Great East Japan Earthquake is considered attributing to favorable PAC shipments in February and March.

	Jan 2012		Feb 2012		Mar 2011	
	units	Y on Y basis %	units	Y on Y basis %	Units	Y on Y basis %
RAC	415,588	84.9	512,124	105.2	678,736	112.0
PAC	50,706	95.8	58,343	100.6	73,753	103.4

※ RAC: Residential Air-conditioners PAC: Commercial Air-conditioners

6. 2011 Estimates of World Demand for Air Conditioners

JRAIA is soon to publish ‘2011 Estimates of World Demand for Air Conditioners’. We estimated the total global air conditioner demand (RAC & PAC) in 2011 at about 92,000 thousand units, a year-on-year increase of 8%. For detailed information by countries, access JRAIA’s website, <http://www.jraia.or.jp>



The International Symposium

2012 in Kobe

JRAIA is pleased to inform you that “The International Symposium on New Refrigerants and Environmental Technology 2012” will take place on 8 & 9 November at International Conference Center Kobe, Main Hall, Kobe, Japan.

Please visit the following site for more information

<http://www.jraia.or.jp/english/symposium/index.html>

THE JAPAN REFRIGERATION AND AIR CONDITIONING INDUSTRY ASSOCIATION (JRAIA)

JRAIA 環境と新冷媒
国際シンポジウム2012

2012年11月8日(木)～9日(金)
神戸国際会議場 メインホール

主催 法人 日本冷凍空調工業会

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