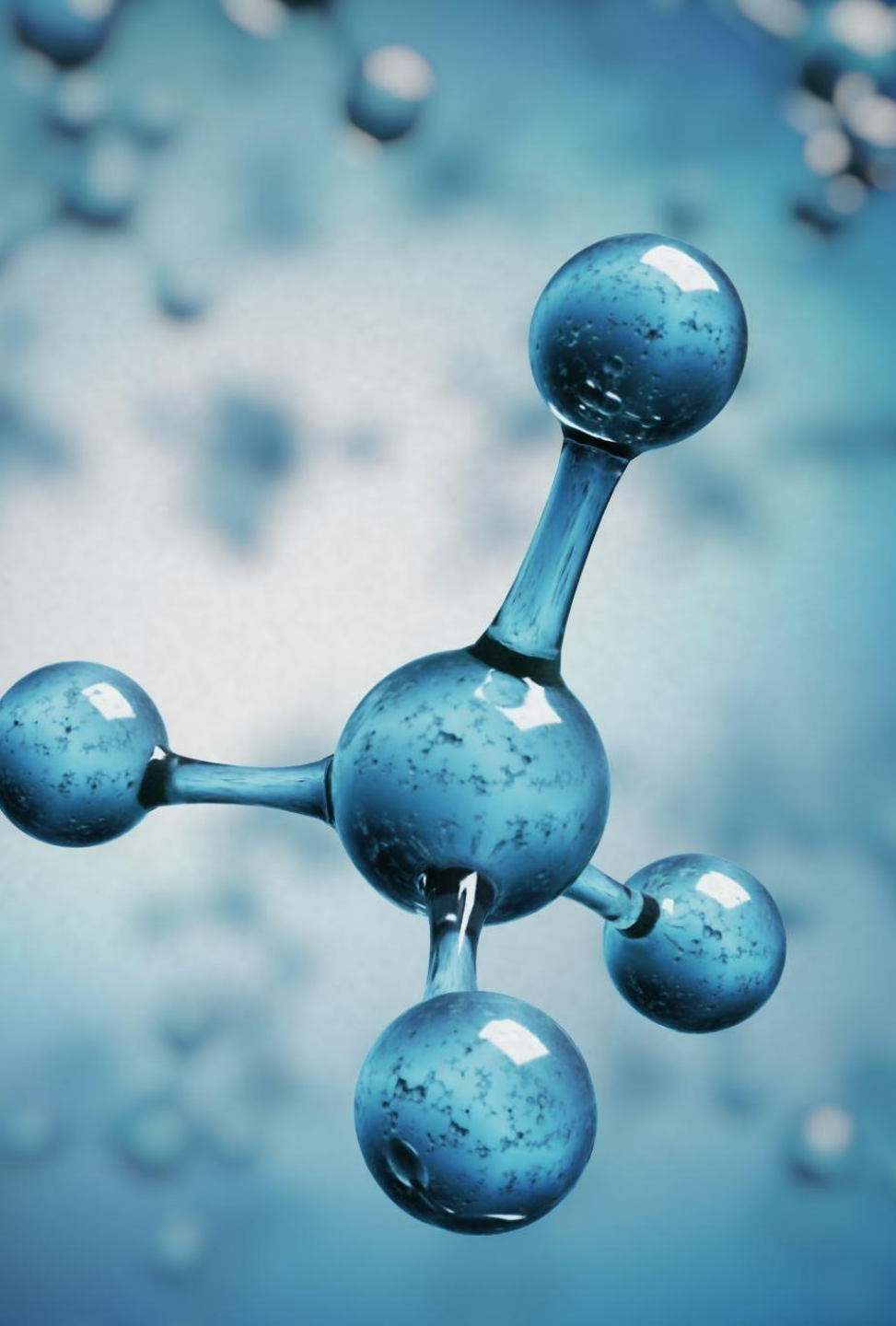




# Concluding Remarks

## 21<sup>th</sup> European Conference

The Latest Technologies in Refrigeration, Air Conditioning and Heat Pumps  
Refrigerants, Cold Chain, Environment, Energy, Training, Certification,  
Legislation, Standards, and Safety



# First Session

## The next generation Refrigerants, low GWP, flammability

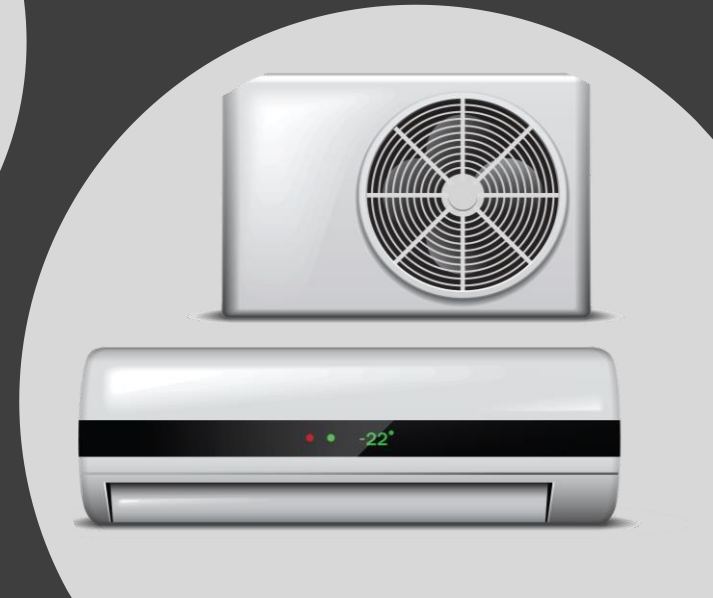
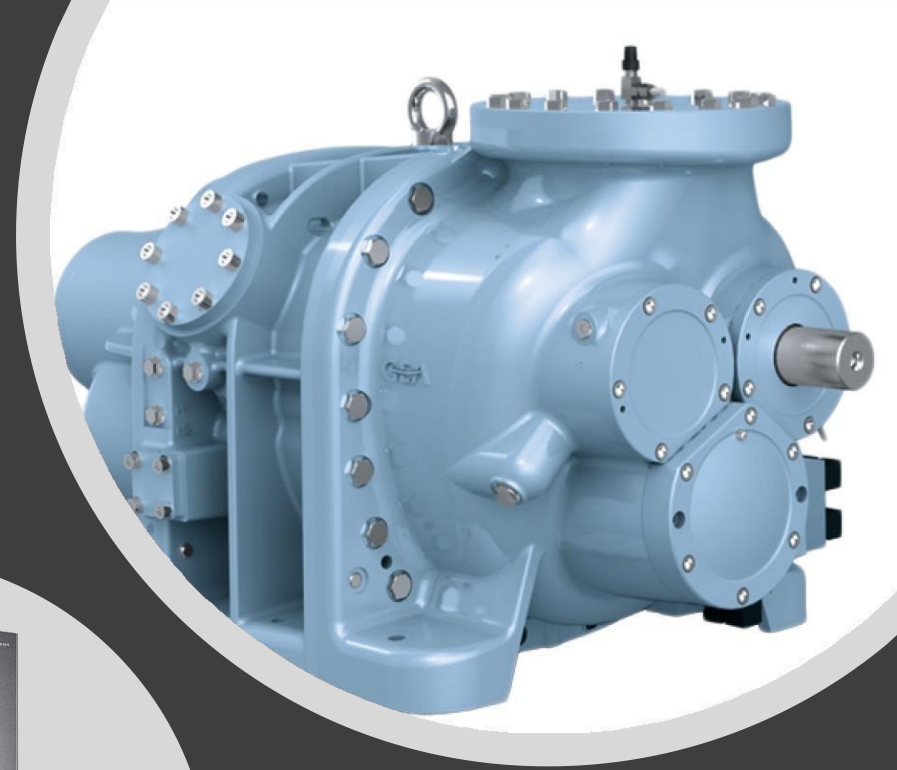
---

- New refrigerants (also with GWP lower than 1)
- PFAS issue is much longer to be resolved than F-gas regulation
- Comparisons in energy efficiency and energy consumption between CO<sub>2</sub> systems and A2L in the same commercial refrigeration system (supermarkets) are still controversial. Maintenance issues?
- Importance of management of refrigerant RRR to reach future targets. Recovery and reclaiming of synthetic refrigerants for a circular economy.
  - Enhancing refrigerant management and reclamation using K-Plots to improve recovery rates, along with the development of an advanced refrigerant cylinder management system to achieve future sustainability goals.
- The importance of lubricant selection for continuous operation.
- Competence: youth more involved. HVAC/R workforce: attract, engage and retain talents.

## Second Session

### Technologies; equipment and components for natural and low GWP refrigerants

- Heat Pumps high temperature
- Variable speed compressor are essential for increase energy efficiency
- Components for alt refrigerants are available.
- Safety devices are becoming more important in the selection of the components
- IOT, Remote servicing will be the future, predictive maintenance
- New syntetic refrigerants in Mobile air conditioning but it would be important to have a final refrigerant choice (HFO, CO2 or propane). Pfas.



## Special Session

### Women in Refrigeration and Air Conditioning

- There is a need to attract more women and retain them in the RACHP sector
- A global survey shows that women are faced with different challenges; they are paid less and have fewer opportunities for career advancement
- INWIC, a networking platform for women in cooling, can help with visibility, capacity building and empowering of women in RACHP Sector; everybody is encouraged to join INWIC
- Mentoring and CARE project
- Initiatives, such as AREA Award (11 videos available on youtube and facebook channel) are a good way provide visibility to women in the RACHP sector



## Third Session

# Policy: Global F-gas phase down and EU Regulation review. Training and certification

- EU F-gas regulation is up and running
- Pfas
- Safety exemption
- Training and certification in stationary and mobile
- Illegal Trade in HFCs is presenting a challenge and needs to be addressed. Improvements expected with new automated checks at customs (DG Clima)
- Safety is crucial for the future of HVACR industry. It need to be encompassed in regulations, standards, certification, and training programs.



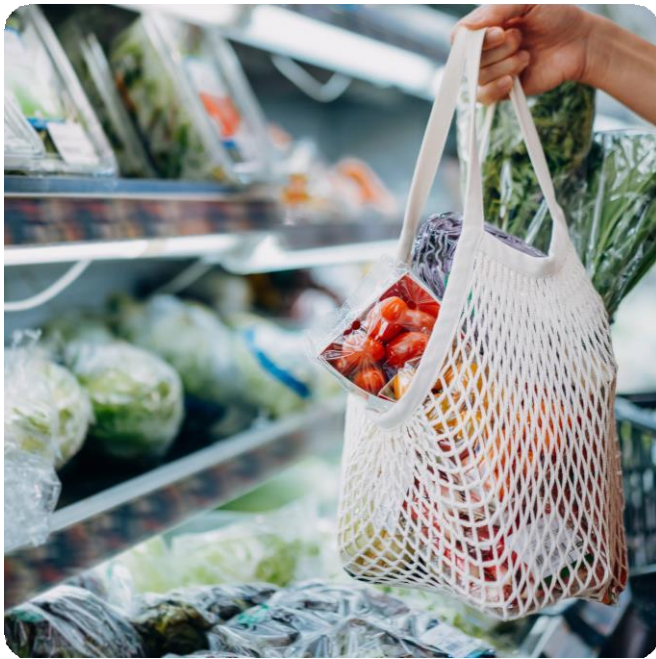


## Forth Session

# The decarbonization of heating, Heat Pumps and Green Cooling

---

- Cooling (also HP) is a priority
- Ecodesign important regulation as the Fgas
- District cooling and heating
- Heat pumps is a must, important solution to de-carbonization
- Combine heat and cool
- Alternative technologies, solar cooling, passive cooling



# Fifth Session: **The Cold Chain**

- Refrigeration in the global economy
- Artificial intelligence, a new tool. Predictive maintenance could save energy
- More to do in Africa
- The importance role of local associations to facilitate the spread of knowledge and practices for selecting sustainable technologies, reducing emissions during service, limiting food loss and maximizing EE
- Energy performance in supermarkets and transport refrigeration could save the environment and energy





See you at the  
**22<sup>nd</sup> European Conference!**

**10 - 11 June 2027**

Politecnico of Milan – Italy