

Atmosphere 2010 – More about Natural Refrigerants

Background: The three natural refrigerants covered by Atmosphere 2010 comprise carbon dioxide (CO₂, R744), ammonia (R717), and hydrocarbons (R290, R600a etc.). All have been used successfully in cooling, refrigeration and heating before generations of ozone- depleting, and later high global warming, chemicals (CFCs, HCFCs, HFCs) entered the market. As part of natural cycles, they are well-known substances with no uncertainty left as regards chemical properties, safety, or reactivity. Their major benefits consist of high energy efficiency - each refrigerant being prioritised for certain applications -, no ozone depletion potential, a negligible Global Warming Potential, and no unknown decomposition products or any other possible impact on the atmospheric composition or the earth's biosphere. They span the whole range of industrial refrigeration/cold storage, commercial refrigeration (supermarkets, vending machines, ice-cream freezers etc.), domestic fridges, vehicle air conditioning, stationary air conditioning, heat pumps, etc.

Statements about Natural Refrigerants were collected through a global survey preceding last year's conference 2009 and are freely available on the following page:
<http://www.atmosphere2009.com/pages/statements.php>

More news about Natural Refrigerants can be found on:

NaturalRefrigerants.com: <http://www.naturalrefrigerants.com>

R744.com: www.R744.com

Hydrocarbons21.com: www.hydrocarbons21.com

Ammonia21.com: www.ammonia21.com

BeyondHFCs: www.beyondhfcs.org

THENATURALVOICE: www.thenaturalvoice.org

Background Policy: As a milestone on the way to climate talks in Cancun at the end of this year, the conference sums up the technical, political and economic challenges natural refrigerants are still facing worldwide. Invited regulatory bodies from developed and developing countries will be introduced to the benefits of natural refrigerants, or update on progress in this field in their respective country.