

Current limitations of natural refrigerants learning

Difficulty to access to real installations "on-site"



Safety requirements to access to installations



Users don't always accept external visitors (schools, universities,...)



Timing required for full undersanding or the refrigeration circuit "on-site"



Not easy to find "representative" installations including most possibilities



Not possible to interact with the installation "on-site"

Difficulty to built training centers "at school"



Safety requirements in some countries don't allow to create circuits



Big investment required



What can we improve using Virtual Reality applications?



Safety



All required time for best understanding of systems



Different installations configuration, including most possibilities



Interaction with the refrigeration circuit



Low investment (only hardware normally available)



Student motivation

NEW GENERATIONS LEARN IN A DIFFERENT WAY NEW METHODS HAVE TO BE APPLIED







- Schools
- Universities
- Associations



VIRTUAL REALITY CLASSROOM FOR TRAINING IN INDUSTRIAL REFRIGERATION PLANTS WITH AMMONIA















IN COOPERATION WITH



















THE APPLICATION

Different configurations of the refrigeration circuits

- NH₃ Single stage
- NH₃ Single stage screw compressor with economizer
- NH₃ Booster system
- NH₃/CO₂ cascade system
- Gravity feed/pumped refrigeration system
- Secondary coolant system
- Air condensers/Evaporative condensers

Included modules

- 1. Free tour through the installations, including internal visualization of some components
- 2. **Training.-** Interaction with the installation for most general operations learning (air purging, oil purging, filter replacement, ...)

















