



Natural Refrigerant Training

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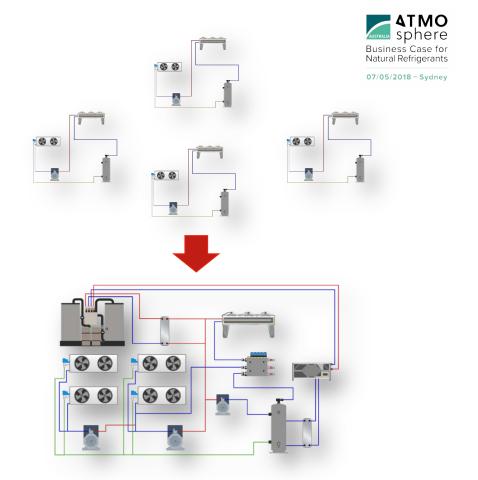


07/05/2018 - Sydney



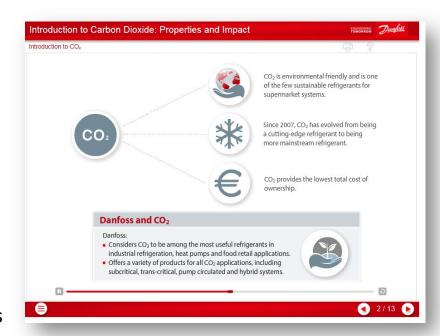
Gaps in training

- Transition to natural refrigerant requires changes in system designs
- Technicians need to be trained to handle the transition
- Steep learning curve as with all new technologies
- In the end, CO₂ becomes routine even preferred by technicians!



A complete CO₂ learning portfolio is offered

- A global network of CO₂ Champions to assist customers
- Portfolio combines eLessons, videos, webinars and face-to-face training
- Face-to-face training with regional partners
- CO₂ Mobile Training Unit
- 40 CO₂ Online eLessons are offered in 11 languages
- 6472 e-learning course registrations in Danfoss Learning, available in various languages,
 2904 are courses in English



- www.danfoss.com/learning
- YouTube <u>Danfoss Cool</u> for technical videos





"Danfoss Learning is an excellent learning platform that provides professional knowledge and helpful for sales promotion and faster response on customers' inquiries."

David Lin, Taiwan

"The general cold room module and heat load selector **assisted in greater learning** when doing heat loads for customers."



- Cameron Chamberlain, Australia



Danfoss learning made it easier for me to help customers and to understand how the individual parts work together in a system."

- Mathias Karrer, Australia

Supporting Local Institutes



- Pace-to-face training is provided by Danfoss trainers (CO₂ Champions) or by one of our partner training institutes located around the world
- Together with partners, we also sponsored several training facilities
 - DJH, Denmark
 - IUC Katrineholm, Sweden
 - Sintef, Norway
 - Lueven Liemburg, Belgium
 - TAFE, Australia



Mobile CO₂ Training Unit



Description of Mobile training unit

- 20ft standard high cube shipping container
- Multi voltage 400/460V 50/60Hz for worldwide grid compatibility
- CO₂ rack refrigeration system which can be operated in 3 different cycles (simple to advanced)
- 3 learning stations for training set up and operation of the system
- Cold room with electronic expansion valves

Description of the equipment

- Rack system to train commissioning and service situations
- Simple remote type system for demonstration of the CO2 cycle
- Various charts, diagrams, and screens for training purposes
- Full prerequisite online curriculum available at <u>Danfoss Learning</u> (requires registration to the system)

Future Training

- After a year of operation around the world, MTU unit has been rebuilt and has started a new trip
- Application handbook is being brought up to date
- We are also working on detailed instructional videos for commissioning and servicing the CO₂ systems







Mobile CO₂ Training Unit, 2017 Sydney, Melbourne, Auckland

Jatinder Masson, Director Sales PACIFIC/APR



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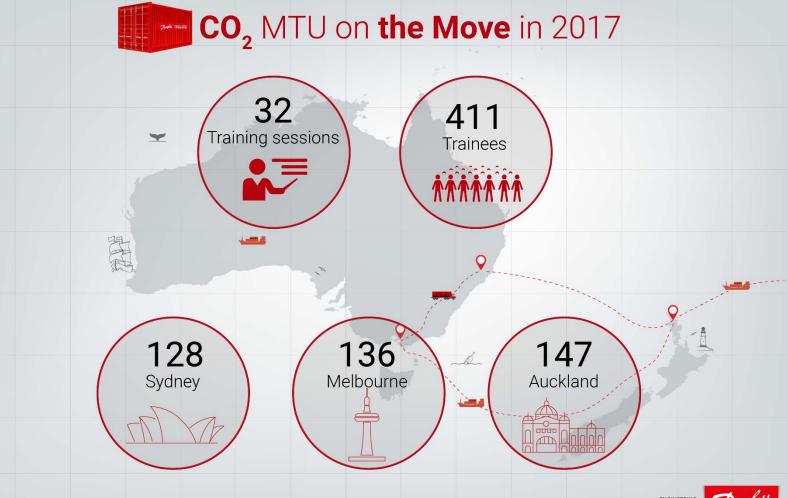




CO, MTU on the Move in 2017









"Genuinely believe this course will help refrigeration sector move to Natural Refrigerants, by way of informing those in the trade, and making the option more readily available."

> - **Dylan Myers**, Active Refrigeration



"Really enjoyed course. Highly informative + interactive."

> - Matt Cochrane, McAlpine Hussmann

"Brilliant Gents.
Well presented.
Huge Danfoss Investment.
1st CO₂ training - need
more. Danfoss to pressure
industry for more
involvement. Thank you."

- Lee, ENGIE Services



Social Media





