

New R744 Booster Pack & CUBO₂ Aqua Transcritical Rigs Running!

5th August 2019

Stephen Benton, director and Alan Snelling, training centre manager have now completed the installation, testing and commissioning of the R744 booster pack and CUBO₂ Smart Aqua. They have also fitted heavy duty castors to all the existing FGas rigs so they can be moved in the centre to maximise space for all the new equipment.

The booster pack comprises 11kW MT and 3kW LT running two MT evaporators and an LT coldroom. The Italian SCM Frigo supplied pack has the latest Danfoss 572 pack controller running both inverter driven and Vari Step controlled Bitzer transcritical compressors, the Vari Step compressor also being Bluetooth accessible. The rig has an effective capacity to that of a small convenience store so replicates a live commercial installation. It will be used to demonstrate booster pack technology and the latest controls in order to deliver training for technicians that has a heavy emphasis on practical activities.



The plant installation follows a period of significant investment in updating the R744 equipment used for training started in February 2018 that saw the decommissioning and scrapping of our first subcritical cascade system installation from 2009.

The R744 inventory at Cool Concerns now comprises:

- MT / LT Booster Pack system (2 x MT evaporators and LT coldroom + controls)
- MT CUBO₂ Smart system (MT evaporator & fully networked Carel controls)
- LT CUBO₂ Smart system (LT cabinet & dual evap controls, Carel & RDM)
- MT CUBO₂ Aqua system (MT evaporator and water-cooled gas cooler)

The CUBO₂ Aqua comprises a mobile rig cooling an MT DX R744 evaporator, rejecting its heat (currently) to a recirculated 1000 litre coolant supply, via a pumped water circuit. Longer term plans will see the Aqua rejecting its heat to a dry cooler.



With the addition of the Aqua and booster pack to compliment the LT & MT transcritical condensing units installed last year, Cool Concerns have a truly unique range of CO₂ equipment in the training sector and together with the current construction of an A2L training rig and the existing HC training equipment we continue to remain at the edge of ongoing developments in our industry.

Both the C14 & C15 R744 training programmes are undergoing revision to incorporate the availability of the new training rigs and will be delivered immediately. If you have noticed the floor, yes, this is also going to receive a fresh coat of paint over the coming months!

Contact us for more information info@coolconcerns.co.uk

