

A Journey With R744

Efficiency And Reliability In CO₂ Applications

Improving system architecture and using a natural refrigerant can significantly reduce the carbon footprint of an installation. Given the growing environmental concerns, the adoption of new technologies by the refrigeration industry accelerates. Emerson Climate Technologies has developed a new range of electronic and mechanical controls fulfilling the requirements of all common CO₂ applications:

- Hybrid systems
- Secondary loop (pumped CO₂)
- Cascade systems
- Booster system

| Product overview | Type | PS/PT (bar) |
|---|----------------------|--------------------------|
| Transcritical Electrical Control Valves (Stepper Motor) | CX4 - CX7 | 120/172 bar |
| Universal Driver Module for CX Valves | EXD-U01 | - |
| Subcritical Electrical Control Valves (Stepper Motor) | EX4 - EX7 | 60/66 bar |
| Subcritical Electrical Control Valves (Stepper Motor) | EX8 | 45/49 bar |
| Superheat Controller for EX Valves | EC3-X33, EC3-D73 | - |
| Electronic Expansion Valves (Pulse Width) | CX2 | 90/129 bar |
| Pressure Transmitters (output signal 4-20mA) | PT5 | 100/150 bar |
| Electronic Oil Level Management TraxOil | OM4 OM5 | 60/66 bar 130/143 bar |
| Electronic Oil Level Monitoring TraxOil | OW5 | 100/110 bar |
| Electronic Liquid Level Monitoring TraxOil | LW4 LW5 | 60 bar 130 bar |
| Pressostats with fixed settings | PS3 CS3 | 45/50 bar 120 bar |
| Hermetic Liquid Line Filter Driers | ADK | 45/47,3 bar |
| Filter Drier with replaceable Cores | FDH | 46/54 bar |
| Moisture Liquid Indicators | MIA CIA | 45/54 bar |
| Ball Valves | BVE, BVS CVE, CVS | 45/49.5 bar 60/66 bar |

PS = Max. working pressure / PT = Test pressure



CX7 with EXD-U01



EX6 with EC3-X33



CX2



PT5



OM5



ADK



FDH



MIA/CIA

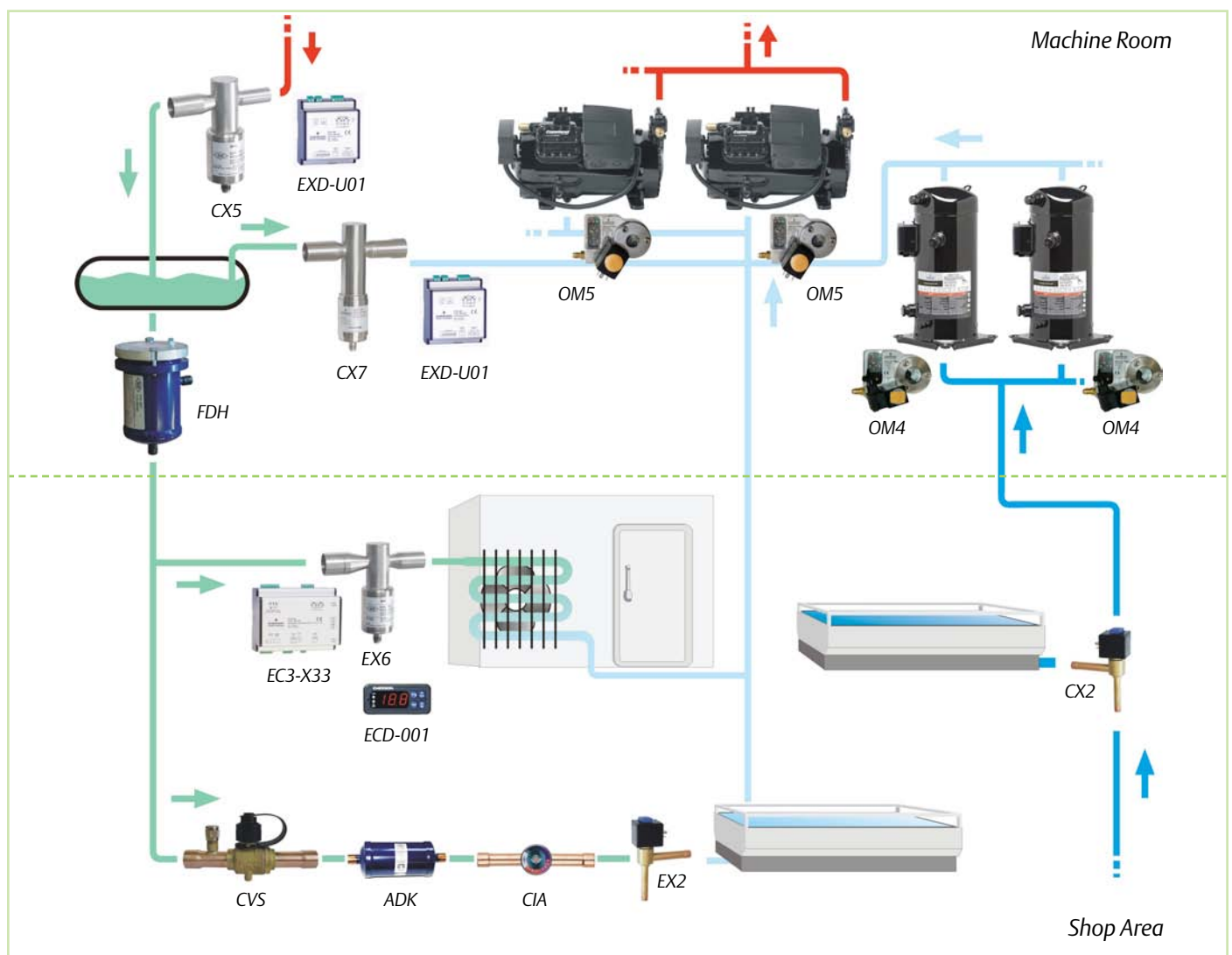


BVE/CVE





R744 Transcritical/Subcritical Booster System: Supermarket Application



DCO148-EN-1402

For more details, see www.emersonclimate.eu

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