

Emerson Climate Technologies Components for R410A

The best choice for Air-Conditioning and Heat-Pump applications

For many years Emerson Climate Technologies is a major manufacturer of controls for use in commercial Air-conditioning and heat pump systems. The existing product families have been extended to optimize the performance of systems using the high performance refrigerant R410A.

Components For Use With R410A

Type	PS (bar)
Electrical control valves EX4,5,6,7 EXM / EXL	45 bar 45 bar
Thermo-Expansion Valves TX3-Z* TILE	45 bar 45 bar
Pressure Transmitters PT5-18/30 PT6-30	45 bar 45 bar
Pressostats, Ball Valves PS4 BVE / BVS	45 bar 45 bar
System Protectors BFK ADK FDB MIA	45 bar 45 bar 45 bar 45 bar

* Charges for R410A only

Electronic Refrigerant Expansion

The use of stepper motor driven electrical control valves for refrigerant expansion allows stable operation over a very wide capacity range.

A series of special controllers can be used for most requirements:

- The Stepper Motor Driver EXD-U00 uses the analog signal from a controller to drive the valve opening from 10 to 100%.
- The Superheat Controllers EC3-X32 / -X33 provide stable superheat control with EX4 to EX8 series.
- The EC3-D72 / -D73 Digital Superheat Controllers provide stable superheat control and automatic synchronisation with the PWM capacity control valve incorporated into Copeland Digital Scroll™.



EX4,5,6,7



EXM / EXL



TILE



PS4



PT5-18/30



PT6-30



BVE / BVS



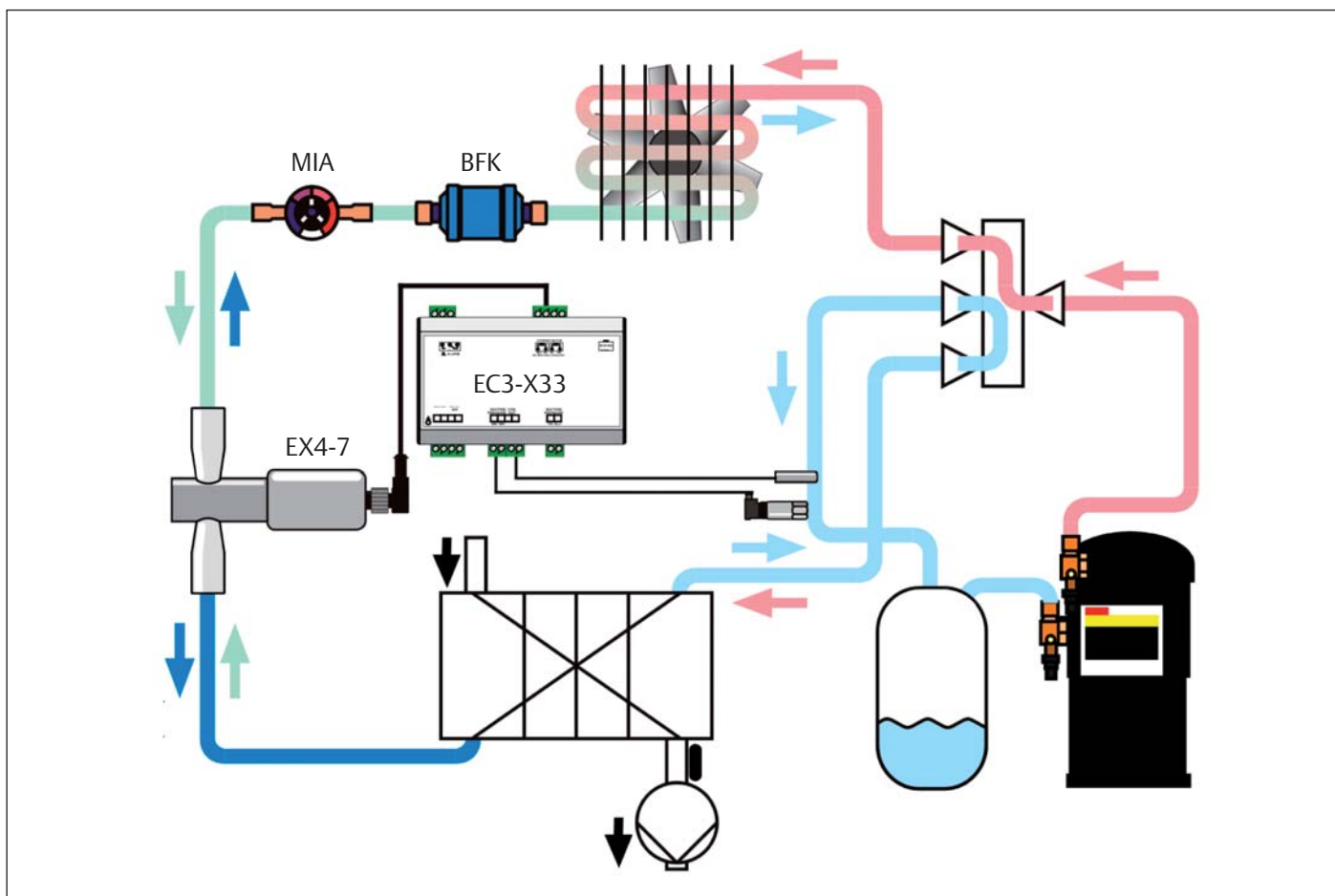
BFK



MIA



R 410A Application in Reversible Air-Water Heat Pump



DMCT19-EN-1009

For more details, see www.emersonclimate.eu

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