

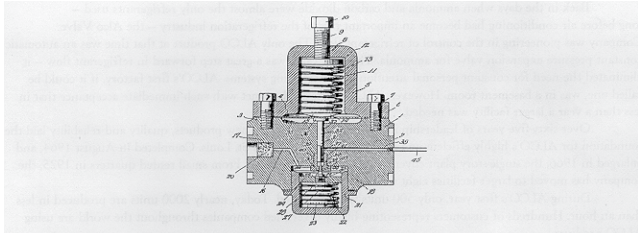


## A2L - ready controls for commercial refrigeration applications

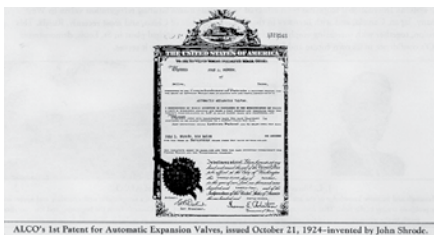
The F-gas regulation strives to reduce the direct and indirect global greenhouse gas emissions and has set deadlines by which OEMs and end-users have to lower the GWP of their refrigeration systems.

Emerson has developed new series of flow controls for a variety of refrigerants to support this transition, such as CO<sub>2</sub> (R744), propane (R290) or alternatives like A2L refrigerants.

These were optimized internally and externally for F-Gas compliant low GWP A2L refrigerants, that combined with the compressors and electronics to create the most reliable Copeland™ solutions.



ALCO's 1st Automatic Expansion Valve for ammonia, designed by founder and inventor, John Shrode (1925).



ALCO's 1st Patent for Automatic Expansion Valves, issued October 21, 1924-invented by John Shrode.



The world's first automatic expansion valve for use in refrigeration systems in 1925.

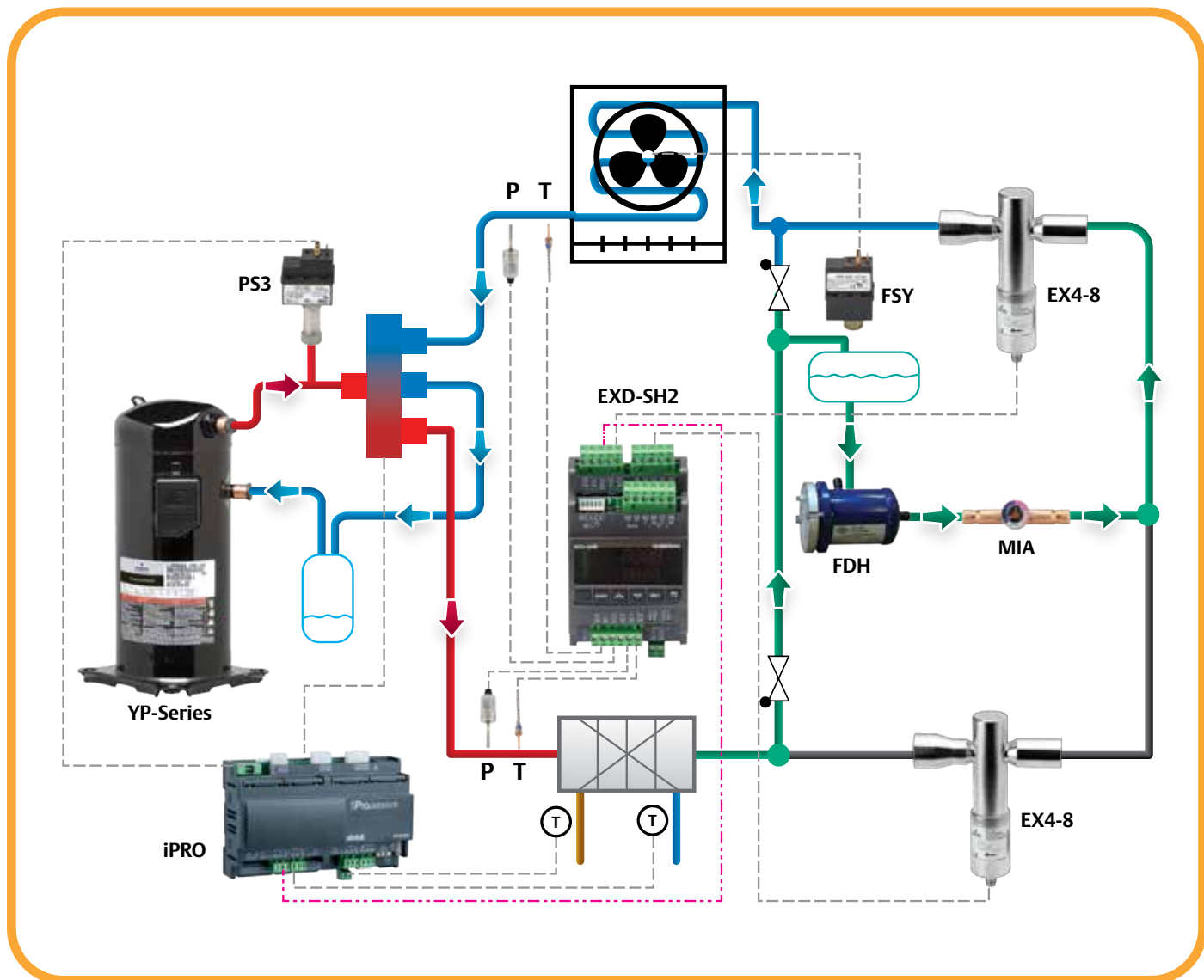
### The key products include:

- Electrical Control Valves
- Electronic Controllers and Sensors
- Thermo™-Expansion Valves
- Solenoid Valves
- Mechanical Pressure Regulators
- Oil Management Components
- Pressure Controls
- System Protectors and Moisture
- Ball Valves

### Automatic Liquid Controls



## Full Solution at a Glance



For more details, there is the selection tool Control Navigator, available on the Emerson website. Contact your local Emerson representatives in case of any further questions or if you need support.

DCO217-EN-2206

**For more details, see [www.climate.emerson.com/en-gb](http://www.climate.emerson.com/en-gb)**

**Emerson Climate Technologies GmbH - European Headquarters** - Pascalstrasse 65 - 52076 Aachen, Germany  
 Tel. +49 (0) 2408 929 0 - Fax: +49 (0) 2408 929 570 - Internet: [www.climate.emerson.com/en-gb](http://www.climate.emerson.com/en-gb)

The Emerson logo is a trademark and service mark of Emerson Electric Co. Emerson Climate Technologies Inc. is a subsidiary of Emerson Electric Co. Copeland is a registered trademark and Copeland Scroll is a trademark of Emerson Climate Technologies Inc.. All other trademarks are property of their respective owners. Emerson Climate Technologies GmbH shall not be liable for errors in the stated capacities, dimensions, etc., as well as typographic errors. Products, specifications, designs and technical data contained in this document are subject to modification by us without prior notice. Illustrations are not binding.

© 2022 Emerson Climate Technologies, Inc.

**EMERSON. CONSIDER IT SOLVED.™**