

Contractor reduces setup time with Electronic Unit Controller

Result

- Set-up time reduced from 25 minutes to 1 minute
- Multi-refrigerant approval in one condensing unit
- Built-in troubleshooting diagnostics
- Added system safeguards
- No cap tubes to break

Application

Refrigeration condensing unit for walk-in cooler.

Customer

Foodservice application.

Challenge

Contractors can spend 25 minutes or more to properly adjust a mechanical low pressure control on a refrigeration condensing unit. These coarse adjustments tend to drift over time, requiring return service calls. Contractors asked for a control they could setup in about a minute that would not drift.

Mechanical low pressure controls (**Fig. 1**) require:

- Hooking up gauge set
- Reading system pressure
- Adjusting mechanical pressure control with a wrench or screwdriver
- Allowing system pressure to settle
- Reading system pressure again
- Final adjustment to mechanical pressure control
- Removing gauge set



“The Electronic Unit Controller from Emerson was easy to install and set. Our technician was very impressed by the accuracy of the pressure readings compared to his service gauges.”

Dan Whitten, Rosetown Central Refrigeration & Air Conditioning Ltd.

Solution

The Electronic Unit Controller from Emerson (Fig. 2) is now standard on many refrigeration condensing units. The controller reduces setup time and remains accurate over the life of the product. Contractors enjoy multi-refrigerant approval in a single condensing unit, and utilize the built-in diagnostics to quickly troubleshooting any field issues.

Resources

Learn more about the electronic unit controller at: EmersonClimate.com/electronicunitcontroller



Coarse settings
drift over time

Figure 1
Mechanical Low-pressure Control

- Requires the hookup of gauges
- Screwdriver used to adjust pressure and differential
- Requires 5-25 minutes

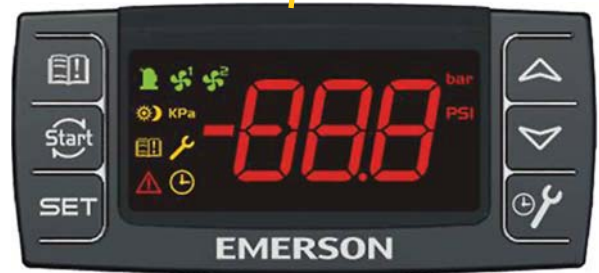


Figure 2
Electronic Unit Controller

- Simple and quick push-button adjustments
- One minute setup time

EmersonClimate.com