

NO: 06-11

DATE: 7/22/11

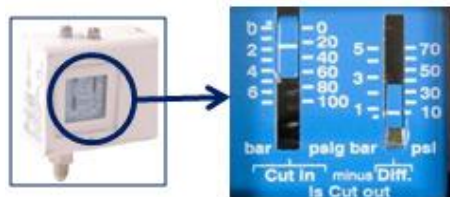
TO: **EMERSON CLIMATE TECHNOLOGIES WHOLESALERS**
-EXECUTIVES
-PRODUCT MANAGERS
-EMERSON® TECHNICAL SPECIALISTS

SUBJECT: ELECTRONIC UNIT CONTROLLERS ON CONDENSING UNITS

Emerson is announcing the launch of the new Electronic Unit Controller featured on all condensing units that require low pressure control. This new controller replaces the existing electro-mechanical low pressure controllers and offers many benefits that are exclusive to Copeland® Condensing Units. The conversion to this electronic unit controller will be a running change, so model numbers will remain the same. The transition, which will take several months, will begin in July 2011 and will be phased in by product family models.

The controller features a large display panel making it quicker and easier for a contractor to set and read low pressure set-points. Additionally, the controller can display current suction pressure, system alarm codes and service run time information. It is designed save time and reduce call-backs.

Current Electro-Mechanical



- Coarse Adjustments
- Drift Over Time
- 30 Minute Set-Up Time

New Electronic Unit Controller



- Fine Adjustments
- 1.5% Accuracy Over Life
- Less Than 1 Minute Set-Up Time

Setting the low pressure set-points is very simple. Instructions are shown below.

Adjusting Low Pressure Settings

Hold DOWN and SET simultaneously for 3 seconds to enter menu (PSI light will flash) ▼ + SET

Cycle through menu options – UP/DOWN ▲ ▼

Select function – SET SET

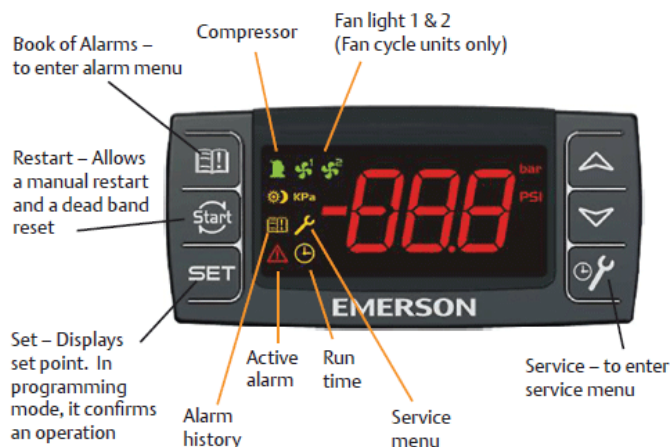
Adjust value – UP/DOWN ▲ ▼

Store function - SET SET

Exit menu - UP and SET ▲ + SET

in out

Low Pressure Cut-In
Low Pressure Cut-Out



Below is an outline of all standard and optional features available.

Feature	Standard	Optional
Low Pressure	Standard Setting	Customer Specified Setting
	Digital Setup	
	1.5% Set-point Accuracy	
Protection	DLT On Scroll Units	DLT Added And Set To Customer Specified Setting
	Bump Start Off	Bump Start On And Set To Customer Specified Setting
	Short Cycle Protection Off Time Set To 6 Seconds	Short Cycle Protection Off Time Set To Customer Specified Setting
	Smart Fan Control On Units With Fan Cycling	Customer Specified Fan Cycling Set Points
		Short Cycle Protection - Minimum Time Between 2 Compressor Starts
		Condenser Temperature Warning On 2 Fan Units
		Alarm Output For Non-Dual Fan Cycling Units
Diagnostics	Condensing Temperature	
	Suction Pressure	
	Fan Run Hours	
	Compressor Run Hours	
	High Pressure Control Trips	
	Compressor Cycles	
		Copeland PerformanceAlert™ Readouts

To help identify units that have transitioned to the new electronic unit controller there will be an orange sticker on the outside of the shipping box as shown below.



***Replacements Parts:**

Each service kit comes with replacement instructions (form number 2011IP-74)
 943-0152-00 - 115V Electronic Unit Controller
 943-0153-00 - 230V Electronic Unit Controller
 943-0154-00 - 115V Electronic Unit Controller with Fan Cycling
 943-0155-00 - 230V Electronic Unit Controller with Fan Cycling
 929-0114-00 - Electronic Unit Controller Suction Pressure Transducer (150PSIA)
 929-0113-00 - DLT Sensor Kit

* Kits are designed for use only to replace an electronic unit controller that has failed in the field. **They should not be used for retrofit purposes to replace electro-mechanical controls.**

For technical information refer to AE bulletin AE-1376 or the technical hotline (1-888-367-9950).

For additional product information and videos refer Emersonclimate.com/electronicunitcontroller. Contact your Distribution Services Sales Manager or Customer Service with any questions regarding this information.