EMERSON
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B U L L E T I N

NO: MB2012CC-26
DATE: 8/23/12
TO: **Refrigeration Original Equipment Manufacturers**
FROM: Emerson Climate Technologies, Inc. – Refrigeration Division
SUBJECT: **Emerson Closed Loop Digital Controller (XC643) for Copeland™ Digital Compressors**
EFFECTIVE: Immediately

Emerson Climate Technologies, Inc. is pleased to announce the launch of the closed loop digital controller (XC643) for Copeland Scroll Digital™ and Copeland Discus™ Digital compressors. The Emerson closed loop digital controller is an efficient controller ideally suited for condensing and compact compressor rack units (single digital compressor / tandem / dual compressor rack), where more expensive parallel rack controllers are cost prohibitive.

The controller, shown below, operates its modulation variations based on suction pressure or temperature. It can also control up to two condensing fans based on the discharge pressure or temperature.

Closed Loop Digital Controller

The closed loop digital controller is simple to install and easy to program. The controller will be shipped from the Emerson Mount Comfort Distribution Center and supported with Emerson technical resources. The controller is offered in a kit (998-0189-00) which includes all of the parts in the table below. Customers can also purchase the components individually as needed.

Part Number	Description
943-0017-00	XC643 Module Only
929-0005-00	Wire harness Only
939-0007-00	Pressure Transducer (Suction)
939-0008-00	Pressure Transducer (Discharge)
939-0009-00	Temperature Sensor
943-0018-00	TTL / MODBUS Adaptor

Service replacement kits and components will be offered through the Emerson Climate Technologies distribution center and through Emerson Authorized Wholesalers.

Additional product performance, electrical, and mechanical information can be accessed online at the Emerson Climate Technologies website, www.EmersonClimate.com, and by logging onto Online Product Information. Please contact your Field Sales Manager, Application Engineer, or Customer Service Representative for additional information.