



Compressor Optimization  
Power Distribution  
& Voltage Protection

Product Catalog

2011

V-Blox CoolPro  
Compressor Optimization System



## CoolPro Compressor Optimization System

- Instant energy savings
- Optimizes heating & cooling cycles of compressor driven A/C & refrigeration
- Easy installation and compatible with existing controls

Available in 2 versions

	<b>CoolPro Single</b>	<b>CoolPro Dual</b>
<b>Operating Voltage</b>	24 VAC, 350mA	24 VAC, 350mA
<b>Display</b>	4 digit, 7 segment, 3 LED indicators	4 digit, 7 segment, 3 LED indicators
<b>Enclosure</b>	IP64	IP64
<b>Dimensions</b>	Height 5 11/16" Width 6 1/4" Depth 1 1/16"	Height 5 11/16" Width 6 1/4" Depth 1 1/16"
<b>Environment</b>	-22°F to 140°F	-22°F to 140°F
<b>Channels</b>	One	Two
<b>Input Voltage</b>	240 VAC (max)	240 VAC (max)
<b>Contact Rating</b>	240 VAC, 360 VAC, B300	240 VAC, 360 VAC, B300

### Installation:

The V-Blox CoolPro can be installed anywhere between the thermostat and the system. The V-Blox CoolPro does have an IP64 rating for outdoor use.

**Quality Assurance:** Complies with ISO9001

**North America:** Complies UL 916 & ULC 22.2 No.205-M1983

**Europe (CE):** Complies with EN60730 (IEC 730) & EN60950:2000  
Complies with EMC directive EN55022, EN55024,  
89 / 336 / EEC & 93/68/EEC

**Australia:** Complies with AS2064, AS3100 & AS3260

### Applications:

**Nearly all compressor driven heat pumps & refrigeration units**  
(for example):

- Convenience stores
- Restaurants
- Supermarkets
- Hotels
- Schools
- Office Parks
- Homes



# V-Blox Lightning & Voltage Protection



## V-Blox Commercial & Residential Surge Protection Devices

- 15 Year Warranty
- \$25,000 Connected Equipment Warranty
- Complete Power Protection
- 100% Customer Satisfaction

UL/CUL Listed per UL 1449 3rd Edition

V-Blox Surge Protection Devices (SPD) provide Surge & Electrical Protection for Residential, Commercial and Industrial applications. Our residential surge protection device provides whole-house surge protection. Our commercial and industrial surge protection device is the industry leader in total protection. All V-Blox SPDs are UL and MET listed and ABS PDA.

The V-Blox SPDs deliver the lowest clamping voltage in the industry and a response time of less than one nanosecond. They are built with ease of installation and monitoring in mind. The bright green LED indicator on the front will remain on as long as the protection is on. The V-Blox SPDs are available for all service voltages and phase configurations. And even works when the power is off.

### Product Specifications (commercial)

<b>Max Surge Current:</b>	200kA/phase 100kA/mode
<b>Shore Circuit Current:</b>	22kA unfused**
<b>Fusing:</b>	Coordinated surge & thermal
<b>Housing Rating:</b>	Type 4X
<b>Diagnostics:</b>	Green & red LED
<b>Safety Standards:</b>	UL 1449 3rd edition

### Material Specifications

- Wire lead length: 24" # 12 AWG
- NEMA type 4X fiberglass reinforced polyester

### Dimensions

4.8"H x 4.7"W x 3.58"D  
6.3"H x 6.3"W x 3.58"D

### Weight

3.8 lbs  
5.9 lbs

Model #	Service Voltage	MCOV	L-N	L-G	N-G	L-L
VB1R*	120/240V Single	150VAC	130V	260V	130V	260V
VB1C	120/240V Single	150VAC	130V	260V	130V	260V
VB3A	120/240V 3-Phase Delta	150VAC	130V	260V	130V	450V
VB3B	120/208V 3-Phase Wye	150VAC	130V	260V	130V	260V
VB3C	277/480V 3-Phase Wye	340VAC	320V	640V	320V	640V
VB3D	480V 3-Phase Delta	600VAC	N/A	550V	N/A	550V

All models available fused.

\*Residential unit 160 kA/phase 80 kA/mode



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V-Blox Power  
Factor Correction



## FFC Series Power Factor Correction

- 20 Year Nominal Design Life
- 15 Year Warranty
- UL Listed US and Canada

### Ratings:

- 208, 240, 480, 600 Volts
- Single and Three Phase
- 50 to 60 Hz
- Operating Temp. Range 40° F to 158° F

### Capacitor Cell Ratings:

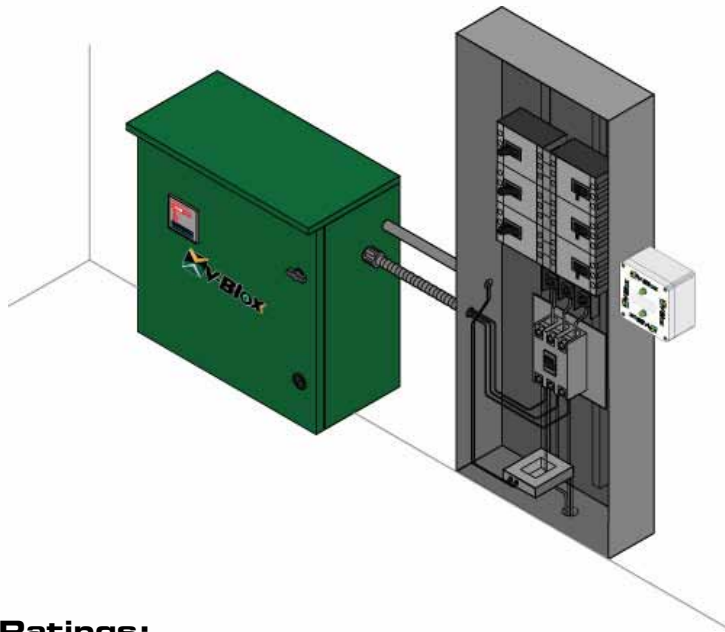
- Dry cell & oil filled options available
- Capacitors are self-healing
- Three phase pressure sensitive interrupter
- Hermetically sealed metallic case
- Threaded terminals
- Losses <1/2 watt per KVAR
- Designed for industrial applications
- 200,000 hour life capacitors

### Enclosure and Mounting:

- Type 1 construction standard- other enclosure types available upon request
- Earth grounded enclosure
- Brackets designed for various mounting conditions
- Conduit hubs designed for easy connection to non-metallic conduit
- Other enclosure types available upon request

### Circuit Breakers:

- Single and three phase D rated circuit breakers rate at 10,000 Amps of fault current
- Breakers sized to load to prevent nuisance tripping
- Circuit breakers are grouped when current exceeds 30 Amps per call



## ATC Series AutoTune Power Factor Correction

- 20 Year Nominal Design Life
- 5 Year Warranty
- UL Listed US and Canada

### Ratings:

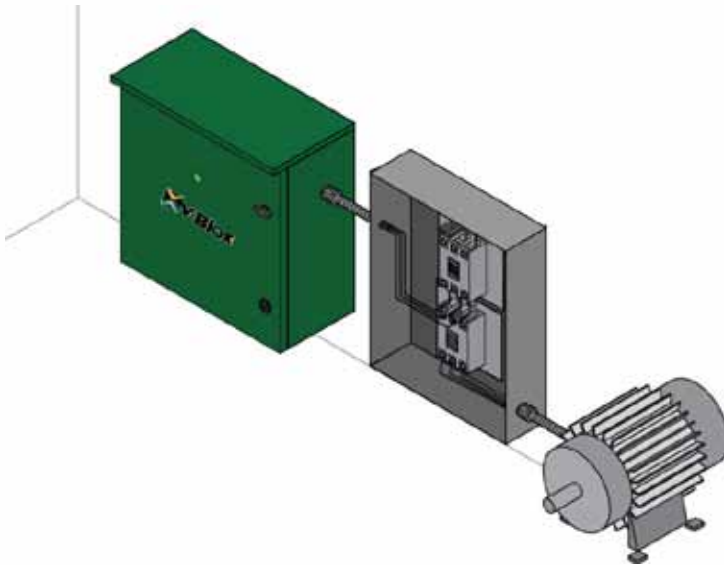
- 208, 240, 480, 600 Volts
- Single and Three Phase
- 50 to 60 Hz
- Operating Temp. Range 40 °F to 158 °F

### Capacitor Cell Ratings:

- Dry cell & oil filled options available
- Capacitors are self-healing
- Three phase pressure sensitive interrupter
- Hermetically sealed metallic case
- Losses <1/2 watt per KVAR
- Designed for industrial applications
- Sized from 10 to 1000 KVAR
- Discharge resistors on all capacitors
- 200,000 hour life capacitors

### Features & Options:

- Type 12 construction standard- other enclosure types available upon request
- 6 to 12 step configuration options
- Harmonic filter options
- Each KVAR section has individual breakers for easy maintenance
- Dimensions dependant upon options and KVAR requirements
- Optional digital display



## Load Sentry Power Factor Correction

- 20 Year Nominal Design Life
- 5 Year Warranty
- UL Listed US and Canada

### Ratings:

- 120, 208, 240, 480, 600 Volts
- Single and Three Phase
- 50 to 60 Hz
- Operating Temp. Range 40°F to 158°F

### Capacitor Cell Ratings:

- Dry cell & oil filled options available
- Capacitors are self-healing
- Three phase pressure sensitive interrupter
- Hermetically sealed metallic case
- Threaded terminals
- Losses <1/2 watt per KVAR
- Designed for industrial applications
- 200,000 hour life capacitors

### Enclosure and Mounting:

- Type 12 construction standard- other enclosure types available upon request
- 6 to 12 step configuration options
- Harmonic filter options
- Each capacitance section has individual breakers- for easy maintenance
- Dimensions dependant upon options and inductive load requirements

### Circuit Breakers:

- Single and three phase D rated circuit breakers rate at 10,000 Amps of fault current
- Breakers sized to load to prevent nuisance tripping
- Circuit breakers are grouped when current exceeds 30 Amps per call