

MYRON ♦ ZUCKER

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PRODUCT CATALOG



POWER FACTOR CORRECTION CAPACITORS

HARMONIC FILTERS

240 TO 600 VOLT

# TABLE OF CONTENTS

**Power Factor Correction Capacitor Series** ..... 3

*Calmount*<sup>®</sup> ..... 4

*Traymount*<sup>®</sup> ..... 6

*Capacibank*<sup>®</sup> ..... 8

*Autocapacibank*<sup>™</sup> ..... 10

**Harmonic Filter Series** ..... 13

*Caltrap*<sup>™</sup> ..... 14

*Capacitrap*<sup>®</sup> ..... 16

*Autocapacitrap*<sup>™</sup> ..... 18

Myron Zucker, Inc. has helped industrial and commercial power users improve energy usage, reduce utility costs, and improve equipment performance for over 50 years.

We help you analyze your power quality problems, determine and apply solutions, and provide dedicated support throughout the lifetime of our products.

Myron Zucker, Inc. is committed to solving power problems and building powerful relationships.

# Power Factor Correction Capacitor Series

## POWER FACTOR CORRECTION (PFC)

**CAPACITORS** store and redistribute reactive power. When a capacitor assembly is connected to an electrical system containing an inductive load, e.g., motor, the load will require less reactive power from the utility.

Low power factor caused by inductive loads results in increased line losses and possible surcharges or penalties billed by electric utility providers.

Myron Zucker, Inc. offers a wide range of power factor correction capacitors for various applications to ensure optimal power utilization.

Our products are specified in kilovolt-amperes reactive (kVAR) for three-phase voltages of 240, 480, and 600 VAC. Our capacitor assemblies are also designed for other voltage or phase applications.

Myron Zucker, Inc. offers both **fixed** and **automatic** products. **Fixed** capacitor assemblies are applied to constant load conditions either at the load, branch panel, or service entrance. **Automatic** capacitor assemblies correct power factor under varying load conditions, typically at the service entrance for facility-wide correction.



## PFC CAPACITORS - FIXED

Fixed capacitor systems are ideally suited for power factor correction in applications where the load does not change or where the capacitor is switched with the load, such as the load side of a motor starter.

Myron Zucker, Inc. offers several options to meet your application needs.

- **Calmount® series:** Ideally suited for individual motor loads and small or medium substations
- **Traymount® series:** Specifically designed for motor control centers (MCC)
- **Capacibank® series:** Applied to individual motors, large substations, or service entrance applications

## PFC CAPACITORS - AUTOMATIC

Automatic capacitor banks are the appropriate choice for power factor correction in applications where the electrical load is not constant and requires varying amounts of reactive power. An automatic capacitor bank measures power factor and switches capacitor modules in and out of service to maintain target power factor.

- **Autocapacibank™ series:** Located strategically throughout an electrical distribution system or the service entrance when the electrical system has less than 15% non-linear loads
- **ZT Capacibank series:** Designed to improve poor power factor under rapidly changing load conditions. The ZT series utilizes thyristor soft-switching technology which prevents transients. For additional information visit [www.myronzucker.com](http://www.myronzucker.com).

### POWER FACTOR CORRECTION CAPACITOR BENEFITS:

- Improve power factor
- Increase available transformer and distribution capacity
- Eliminate utility penalties or surcharges
- Reduce line losses and associated energy costs
- Decrease downtime while improving power quality

## CALMOUNT® Brand Capacitor Series

CALMOUNT®

**APPLICATIONS**

- At the load
- Branch panel
- Main service entrance

**STANDARD FEATURES**

- UL & C-UL listed, CE
- 2-year warranty
- 3-line fusing
- Discharge resistors per NEC requirements
- Assembled in the USA

**STANDARD RATINGS**

- 240, 480, 600 Volts
- 3-phase
- 60 Hertz

**CAPACITOR CELLS**

- 20-year rated life
- 5-year warranty
- Self-contained, 3-phase, delta-connected
- Industrial grade dry-type construction
- Losses of less than ½ watt per kVAR
- Self-healing metallized polypropylene dielectric film
- 3-phase pressure-actuated interrupter
- Hermetically sealed steel case
- Threaded insulated terminals

**FUSES**

- Fast-acting, current-limiting, with 200,000 ampere interrupting capacity

**ENCLOSURES**

- Built to NEMA 12 specifications for indoor use
- Recessed mounting holes for wall or shelf mounting
- Designed for simple installation and maintenance

**FIELD WIRING TERMINATION**

- Mechanical connections are provided for all field wiring termination points

**MODELS**

- KIM Model: blown fuse and CelTel® (loss-of-capacitance) indication
- KNM Model: blown fuse indication
- KPM Model: fusing without indication

**BLOWN FUSE INDICATION**

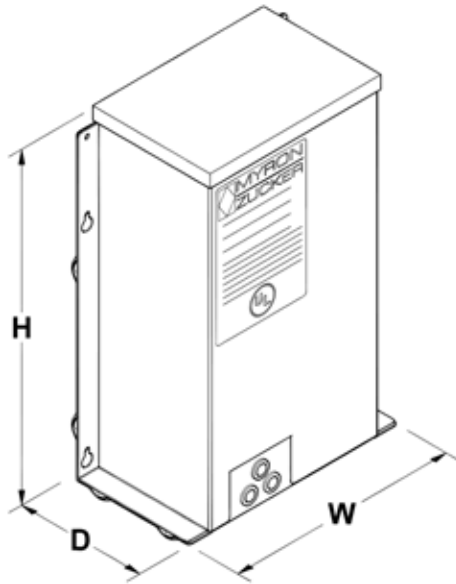
- Indication light illuminates on outside of enclosure when corresponding fuse has blown

**CELTEL® LOSS-OF-CAPACITANCE INDICATION**

- Amber light illuminates when capacitor assembly is no longer functioning effectively

**OPTIONS**

- Built-in contactor for remote switching
- Multical® series - one enclosure designed to treat up to four individual loads
- Other voltage and phase applications available
- Other enclosure ratings available
- Other kVAR configurations available



ENCLOSURE DIMENSIONS			
ENC.	H	W	D
K1	14.00	9.25	5.25
K2	14.00	15.75	5.25
K4	14.00	24.00	5.25
K6	14.00	34.00	5.25

All dimensions are in inches. Myron Zucker, Inc. reserves the right to change dimensions without notice.

## STANDARD SELECTION CHART

Complete part number by inserting indication preference

**KIM:** Blown fuse and loss-of-capacitance indication; **KNM:** Blown fuse indication; **KPM:** Fusing without indication

240V / 3Φ / 60Hz					480V / 3Φ / 60Hz					600V / 3Φ / 60Hz				
kVAR	PART NUMBER	AMPS*	LBS.	ENC.	kVAR	PART NUMBER	AMPS*	LBS.	ENC.	kVAR	PART NUMBER	AMPS*	LBS.	ENC.
1	K_M23001-3	2.4	14	K1	1	K_M43001-3	1.2	14	K1					
1.5	K_M23001X-3	3.6	14	K1	1.5	K_M43001X-3	1.8	14	K1	2	K_M63002-3	1.9	14	K1
2	K_M23002-3	4.8	14	K1	2	K_M43002-3	2.4	14	K1	2.5	K_M63002X-3	2.4	14	K1
2.5	K_M23002X-3	6.0	14	K1	2.5	K_M43002X-3	3.0	14	K1	3	K_M63003-3	2.9	14	K1
3	K_M23003-3	7.2	14	K1	3	K_M43003-3	3.6	14	K1	4	K_M63004-3	3.8	14	K1
4	K_M23004-3	9.6	14	K1	4	K_M43004-3	4.8	14	K1	5	K_M63005-3	4.8	14	K1
5	K_M23005-3	12	15	K1	5	K_M43005-3	6.0	14	K1	6	K_M63006-3	5.8	14	K1
6	K_M23006-3	14	15	K1	6	K_M43006-3	7.2	14	K1	7.5	K_M63007X-3	7.2	14	K1
7.5	K_M23007X-3	18	15	K1	7.5	K_M43007X-3	9.0	14	K1	10	K_M63010-3	9.6	14	K1
10	K_M23010-3	24	15	K1	10	K_M43010-3	12	14	K1	12.5	K_M63012X-3	12	15	K1
12.5	K_M23012X-3	30	25	K2	12.5	K_M43012X-3	15	15	K1	15	K_M63015-3	14	15	K1
15	K_M23015-3	36	25	K2	15	K_M43015-3	18	15	K1	16.7	K_M63016-3	16	15	K1
16	K_M23016-3	38	25	K2	16.7	K_M43016-3	20	15	K1	17.5	K_M63017X-3	17	15	K1
17.5	K_M23017X-3	42	25	K2	17.5	K_M43017X-3	21	15	K1	20	K_M63020-3	19	15	K1
20	K_M23020-3	48	25	K2	20	K_M43020-3	24	15	K1	22.5	K_M63022X-3	22	25	K2
22.5	K_M23022X-3	54	38	K4	22.5	K_M43022X-3	27	25	K2	25	K_M63025-3	24	25	K2
25	K_M23025-3	60	38	K4	25	K_M43025-3	30	25	K2	27.5	K_M63027X-3	26	25	K2
27.5	K_M23027X-3	66	38	K4	27.5	K_M43027X-3	33	25	K2	30	K_M63030-3	29	25	K2
30	K_M23030-3	72	38	K4	30	K_M43030-3	36	25	K2	32.5	K_M63032X-3	31	25	K2
32.5	K_M23032X-3	78	43	K4	32.5	K_M43032X-3	39	25	K2	35	K_M63035-3	34	25	K2
35	K_M23035-3	84	43	K4	35	K_M43035-3	42	25	K2	37.5	K_M63037X-3	36	25	K2
37.5	K_M23037X-3	90	43	K4	37.5	K_M43037X-3	45	25	K2	40	K_M63040-3	38	25	K2
40	K_M23040-3	96	43	K4	40	K_M43040-3	48	25	K2	42.5	K_M63042X-3	41	40	K4
42.5	K_M23042X-3	102	56	K6	42.5	K_M43042X-3	51	40	K4	45	K_M63045-3	43	40	K4
45	K_M23045-3	108	56	K6	45	K_M43045-3	54	40	K4	50	K_M63050-3	48	40	K4
50	K_M23050-3	120	56	K6	50	K_M43050-3	60	40	K4	60	K_M63060-3	58	40	K4
60	K_M23060-3	144	61	K6	60	K_M43060-3	72	40	K4	65	K_M63065-3	63	44	K4
					65	K_M43065-3	78	44	K4	70	K_M63070-3	67	44	K4
					70	K_M43070-3	84	44	K4	75	K_M63075-3	72	44	K4
					75	K_M43075-3	90	44	K4	80	K_M63080-3	77	44	K4
					80	K_M43080-3	96	44	K4	90	K_M63090-3	87	57	K6
					90	K_M43090-3	108	57	K6	100	K_M63100-3	96	57	K6
					100	K_M43100-3	120	57	K6	120	K_M63120-3	115	61	K6
					120	K_M43120-3	144	61	K6					

\*The ampacity of capacitor circuit conductors shall not be less than 135% of the rated circuit of the capacitor Per NEC 2008

# TRAYMOUNT® Brand Capacitor Series

TRAYMOUNT®

## APPLICATIONS

- At the load within Motor Control Centers (MCCs)

## STANDARD FEATURES

- UL recognized component
- 2-year warranty
- 3-line fusing
- Discharge resistors per NEC requirements
- Assembled in the USA

## STANDARD RATINGS

- 240, 480, 600 Volts
- 3-phase
- 60 Hertz

## CAPACITOR CELLS

- 20-year rated life
- 5-year warranty
- Self-contained, 3-phase, delta-connected
- Industrial grade dry-type construction
- Losses of less than 1/2 watt per kVAR
- Self-healing metallized polypropylene dielectric film
- 3-phase pressure-actuated interrupter
- Hermetically sealed steel case
- Threaded insulated terminals

## FUSES

- Fast-acting, current-limiting, with 200,000 ampere interrupting capacity

## FIELD WIRING TERMINATION

- Mechanical connections are provided for all field wiring termination points

## MODELS

- T\_NM Model: blown fuse indication
- T\_PM Model: fusing without indication

## TRAYMOUNT DESIGNS

- Rockwell Automation *Allen-Bradley*
- Siemens Industry, Inc.
- Schneider Electric Square D
- Eaton Cutler-Hammer
- Myron Zucker, Inc. Universal Design

## OPTIONS

- Other voltage and phase applications available
- Other kVAR configurations available



Rockwell Automation *Allen-Bradley*



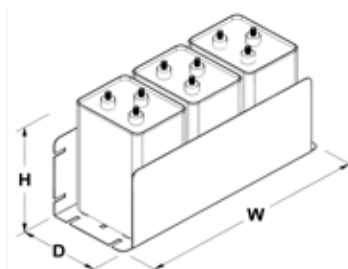
Siemens Industry, Inc.



Schneider Electric Square D



Eaton Cutler-Hammer



Myron Zucker, Inc. Universal Design

# TRAYMOUNT® Brand Capacitor Series

TRAYMOUNT DESIGN	CONFIGURATION	MAXIMUM kVAR			APPROX. DIMENSIONS*		
		240V	480V	600V	H	W	D
A = Rockwell Automation <i>Allen-Bradley</i>	0.5 Space Factor	20.0	40.0	40.0	4.50	14.25	7.75
	1.0 Space Factor	30.0	60.0	60.0	8.75	15.50	8.50
F = Siemens Industry, Inc.	1 Tray	30.0	60.0	60.0	8.75	19.50	8.50
S = Schneider Electric Square D	1 Tray	15.0	30.0	30.0	5.50	14.00	10.50
	2 Trays	30.0	60.0	60.0			
	3 Trays	45.0	90.0	90.0			
	4 Trays	50.0	100.0	100.0			
W = Eaton Cutler-Hammer	1 Tray	22.5	45.0	45.0	9.00	13.75	7.25
	2 Trays	45.0	90.0	90.0			
	3 Trays	50.0	100.0	100.0			
U = Myron Zucker, Inc. Universal Design	1 Cell Tray	10.0	20.0	20.0	5 to 9	6.00	7.00
	3 Cell Tray	30.0	60.0	60.0	5 to 9	14.00	7.00
	4 Cell Tray	40.0	80.0	80.0	5 to 9	18.00	7.00

\*All dimensions are in inches. Myron Zucker, Inc. reserves the right to change dimensions without notice.

## STANDARD SELECTION CHART

Complete part number by inserting Traymount design (A, F, S, W, or U) and indication preference

**T\_NM:** Blown fuse indication; **T\_PM:** Fusing without indication

Ex. **TUNM43010-3:** Myron Zucker, Inc. Universal design with blown fuse indication

240V / 3Φ / 60Hz			480V / 3Φ / 60Hz			600V / 3Φ / 60Hz		
kVAR	PART NUMBER	AMPS*	kVAR	PART NUMBER	AMPS*	kVAR	PART NUMBER	AMPS*
1	T_M23001-3	2.4	1	T_M43001-3	1.2			
1.5	T_M23001X-3	3.6	1.5	T_M43001X-3	1.8			
2	T_M23002-3	4.8	2	T_M43002-3	2.4	2	T_M63002-3	1.9
2.5	T_M23002X-3	6.0	2.5	T_M43002X-3	3.0	2.5	T_M63002X-3	2.4
3	T_M23003-3	7.2	3	T_M43003-3	3.6	3	T_M63003-3	2.9
4	T_M23004-3	9.6	4	T_M43004-3	4.8	4	T_M63004-3	3.8
5	T_M23005-3	12	5	T_M43005-3	6.0	5	T_M63005-3	4.8
6	T_M23006-3	14	6	T_M43006-3	7.2	6	T_M63006-3	5.8
7.5	T_M23007X-3	18	7.5	T_M43007X-3	9.0	7.5	T_M63007X-3	7.2
10	T_M23010-3	24	10	T_M43010-3	12	10	T_M63010-3	9.6
12.5	T_M23012X-3	30	12.5	T_M43012X-3	15	12.5	T_M63012X-3	12
15	T_M23015-3	36	15	T_M43015-3	18	15	T_M63015-3	14
16	T_M23016-3	38	16.7	T_M43016-3	20	16.7	T_M63016-3	16
17.5	T_M23017X-3	42	17.5	T_M43017X-3	21	17.5	T_M63017X-3	17
20	T_M23020-3	48	20	T_M43020-3	24	20	T_M63020-3	19
22.5	T_M23022X-3	54	22.5	T_M43022X-3	27	22.5	T_M63022X-3	22
25	T_M23025-3	60	25	T_M43025-3	30	25	T_M63025-3	24
27.5	T_M23027X-3	66	27.5	T_M43027X-3	33	27.5	T_M63027X-3	26
30	T_M23030-3	72	30	T_M43030-3	36	30	T_M63030-3	29
32.5	T_M23032X-3	78	32.5	T_M43032X-3	39	32.5	T_M63032X-3	31
35	T_M23035-3	84	35	T_M43035-3	42	35	T_M63035-3	34
37.5	T_M23037X-3	90	37.5	T_M43037X-3	45	37.5	T_M63037X-3	36
40	T_M23040-3	96	40	T_M43040-3	48	40	T_M63040-3	38
42.5	T_M23042X-3	102	42.5	T_M43042X-3	51	42.5	T_M63042X-3	41
45	T_M23045-3	108	45	T_M43045-3	54	45	T_M63045-3	43
50	T_M23050-3	120	50	T_M43050-3	60	50	T_M63050-3	48
			60	T_M43060-3	72	60	T_M63060-3	58
			65	T_M43065-3	78	65	T_M63065-3	63
			70	T_M43070-3	84	70	T_M63070-3	67
			75	T_M43075-3	90	75	T_M63075-3	72
			80	T_M43080-3	96	80	T_M63080-3	77
			90	T_M43090-3	108	90	T_M63090-3	87
			100	T_M43100-3	120	100	T_M63100-3	96

\*The ampacity of capacitor circuit conductors shall not be less than 135% of the rated circuit of the capacitor Per NEC 2008

## CAPACIBANK® Brand Capacitor Series

CAPACIBANK®

**APPLICATIONS**

- Branch panel
- Main service entrance

**STANDARD FEATURES**

- UL & C-UL listed, CE
- 2-year warranty
- 3-line fusing with blown fuse indication
- Discharge resistors per NEC requirements
- Assembled in the USA

**STANDARD RATINGS**

- 240, 480, 600 Volts
- 3-phase
- 60 Hertz



CIM Model

**CAPACITOR CELLS**

- 20-year rated life
- 5-year warranty
- Self-contained, 3-phase, delta-connected
- Industrial grade dry-type construction
- Losses of less than ½ watt per kVAR
- Self-healing metallized polypropylene dielectric film
- 3-phase pressure-actuated interrupter
- Hermetically sealed steel case
- Threaded insulated terminals

**FUSES**

- Fast-acting, current-limiting, with 200,000 ampere interrupting capacity

**ENCLOSURES**

- Built to NEMA 12 specifications for indoor use
- Wall-mounted or free-standing with hinged door and lockable door handle

**FIELD WIRING TERMINATION**

- Mechanical connections are provided for all field wiring termination points

**MODELS**

- CIM Model: blown fuse indication and CelTel® monitoring system
- CNM Model: blown fuse indication

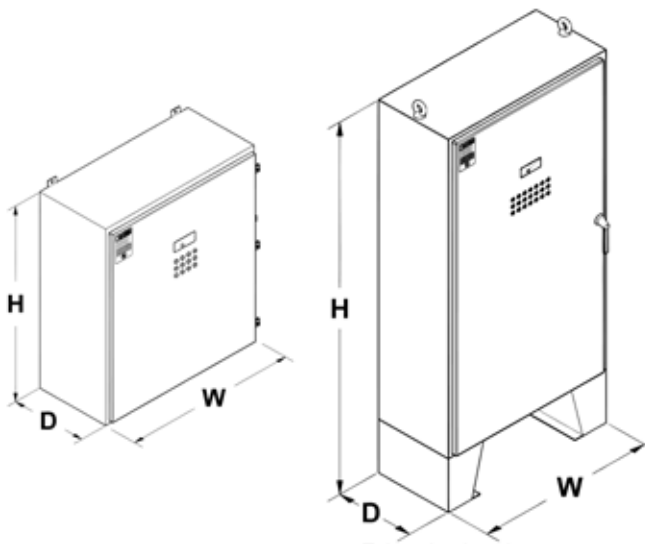
**CELTEL® MONITORING SYSTEM**

- Loss-of-capacitance indication
- Indicates when capacitor assembly is no longer functioning effectively
- Phase imbalance indication
- Overcurrent and undercurrent indication
- Reset function
- Self diagnostic function

**OPTIONS**

- Circuit breaker or disconnect switch
- Other enclosure ratings available
- Other voltage and phase applications available
- Other kVAR configurations available





ENCLOSURE DIMENSIONS			
ENC.	H	W	D
W2	36.00	24.00	16.00
W4	36.00	36.00	16.00
F1	84.00	41.00	18.00

W2, W4: Wall-mounted; F1: Free-standing

All dimensions are in inches. Myron Zucker, Inc. reserves the right to change dimensions without notice.

## STANDARD SELECTION CHART

Complete part number by inserting indication preference

**CIM:** Blown fuse indication with CelTel® monitoring system; **CNM:** Blown fuse indication

240V / 3Φ / 60Hz				480V / 3Φ / 60Hz				600V / 3Φ / 60Hz			
kVAR	PART NUMBER	AMPS*	ENC.	kVAR	PART NUMBER	AMPS*	ENC.	kVAR	PART NUMBER	AMPS*	ENC.
75	C_M23075-3	180	W2	150	C_M43150-3	180	W2	150	C_M63150-3	144	W2
100	C_M23100-3	241	W2	175	C_M43175-3	210	W2	175	C_M63175-3	168	W2
125	C_M23125-3	301	W4	200	C_M43200-3	241	W2	200	C_M63200-3	192	W2
150	C_M23150-3	361	W4	225	C_M43225-3	271	W2	225	C_M63225-3	217	W2
175	C_M23175-3	421	F1	250	C_M43250-3	301	W4	250	C_M63250-3	241	W4
200	C_M23200-3	481	F1	300	C_M43300-3	361	W4	300	C_M63300-3	289	W4
225	C_M23225-3	541	F1	350	C_M43350-3	421	W4	350	C_M63350-3	337	W4
250	C_M23250-3	601	F1	400	C_M43400-3	481	F1	400	C_M63400-3	385	F1
				450	C_M43450-3	541	F1	450	C_M63450-3	433	F1
				500	C_M43500-3	601	F1	500	C_M63500-3	481	F1
				550	C_M43550-3	662	F1	550	C_M63550-3	529	F1
				600	C_M43600-3	722	F1	600	C_M63600-3	577	F1

\*The ampacity of capacitor circuit conductors shall not be less than 135% of the rated circuit of the capacitor Per NEC 2008

# AUTOCAPACIBANK™ Brand Capacitor Series

## AUTOCAPACIBANK™

### APPLICATIONS

- Branch panel
- Main service entrance

### STANDARD FEATURES

- UL 508A listed
- 2-year warranty
- 3-line fusing with blown fuse indication
- Automatically maintains target power factor
- Discharge resistors per NEC requirements
- Capacitor rated contactors with precharge coil
- Assembled in the USA

### STANDARD RATINGS

- 240, 480, 600 Volts
- 3-phase
- 60 Hertz



### CAPACITOR CELLS

- 20-year rated life
- 5-year warranty
- Self-contained, 3-phase, delta-connected
- Industrial grade dry-type construction
- Losses of less than ½ watt per kVAR
- Self-healing metallized polypropylene dielectric film
- 3-phase pressure-actuated interrupter
- Hermetically sealed steel case
- Threaded insulated terminals

### FUSES

- Fast-acting, current-limiting, with 200,000 ampere interrupting capacity

### ENCLOSURES

- Built to NEMA 12 specifications for indoor use
- Wall-mounted or free-standing with hinged door and lockable door handle

### FIELD WIRING TERMINATION

- Mechanical connections are provided for all field wiring termination points

### MODELS

Model selection based on automatic power factor (VAR) controller features

- ACIM Model
- ACNM Model

### ACIM MODEL

- Digital programming with dual displays
- Voltage and current measurement
- Independent voltage measure input
- Internal panel temperature sensor
- Voltage and current harmonic event log
- RS232 programming and supervision interface
- RS485 supervision interface
- Automatic set-up function
- Capacitor overload protection and step failure

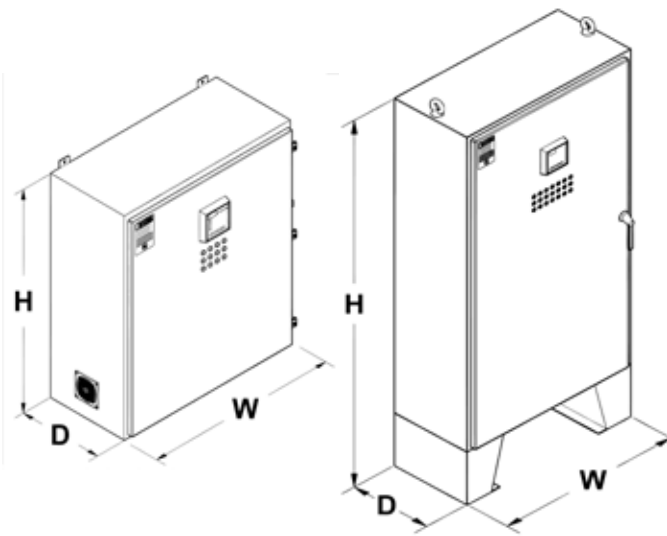
### ACNM MODEL

- Digital programming
- Voltage and current measurement
- Internal panel temperature sensor
- TTL/RS232 programming interface
- Capacitor overload protection
- Automatic set-up function

### OPTIONS

- Circuit breaker or disconnect switch
- Other enclosure ratings available
- Other voltage and phase applications available
- Other kVAR configurations available
- Remote supervision software for PC interface
- Surge protection device

# AUTOCAPACIBANK™ Brand Capacitor Series



ENCLOSURE DIMENSIONS			
ENC.	H	W	D
W5	42.00	30.00	16.00
W6	42.00	36.00	16.00
F1	84.00	41.00	18.00

W5, W6: Wall-mounted; F1: Free-standing

All dimensions are in inches. Myron Zucker, Inc. reserves the right to change dimensions without notice.

## STANDARD SELECTION CHART

Complete part number by inserting (VAR) controller preference  
See page 10 for **ACIM** and **ACNM** Model features

240V / 3Φ / 60Hz					480V / 3Φ / 60Hz					600V / 3Φ / 60Hz				
kVAR	PART NUMBER	STEPS	AMPS*	ENC.	kVAR	PART NUMBER	STEPS	AMPS*	ENC.	kVAR	PART NUMBER	STEPS	AMPS*	ENC.
50	AC_M23050-3	3	120	W5	50	AC_M43050-3	3	60	W5	50	AC_M63050-3	3	48	W5
75	AC_M23075-3	3	180	W5	75	AC_M43075-3	3	90	W5	75	AC_M63075-3	3	72	W5
100	AC_M23100-3	4	241	W5	100	AC_M43100-3	3	120	W5	100	AC_M63100-3	3	96	W5
125	AC_M23125-3	5	301	W6	150	AC_M43150-3	3	180	W5	150	AC_M63150-3	3	144	W5
150	AC_M23150-3	6	361	W6	200	AC_M43200-3	4	241	W5	200	AC_M63200-3	4	192	W5
175	AC_M23175-3	7	421	F1	250	AC_M43250-3	5	301	W6	250	AC_M63250-3	5	241	W6
200	AC_M23200-3	8	481	F1	300	AC_M43300-3	5	361	W6	300	AC_M63300-3	5	289	W6
225	AC_M23225-3	9	541	F1	350	AC_M43350-3	6	421	W6	350	AC_M63350-3	6	337	W6
250	AC_M23250-3	10	601	F1	400	AC_M43400-3	7	481	F1	400	AC_M63400-3	7	385	F1
					450	AC_M43450-3	8	541	F1	450	AC_M63450-3	8	433	F1
					500	AC_M43500-3	9	601	F1	500	AC_M63500-3	9	481	F1
					550	AC_M43550-3	10	662	F1	550	AC_M63550-3	10	529	F1
					600	AC_M43600-3	10	722	F1	600	AC_M63600-3	10	577	F1

\*The ampacity of capacitor circuit conductors shall not be less than 135% of the rated circuit of the capacitor Per NEC 2008

*From Power Factor Correction to Harmonic Mitigation...  
Myron Zucker, Inc. serves all industries*



# Harmonic Filter Series

**HARMONICS** are multiples of a fundamental frequency. For example, in a 60 Hz system, the 5th harmonic is 300 Hz. The total amount of harmonics in a power system is referred to as Total Harmonic Distortion (THD).

Harmonics are caused by non-linear load devices such as variable frequency drives, AC to DC converters, and UPS systems. Harmonics, when present in a power system, often result in higher voltages and currents. This condition is known as poor power quality.

Poor power quality may lead to failed power factor correction capacitors, blown fuses, tripped circuit breakers, and failure of electronic equipment. Most damaging is the additional heat generated in transformers, where an increase in operating temperature can significantly reduce the life of transformers, motors, and capacitors.

The application of harmonic filters provides solutions to a variety of power quality issues. These issues include power factor correction in the presence of non-linear loads, harmonic mitigation, and compliance to IEEE standards. Filters must be properly engineered and applied to prevent unexpected interactions within an electrical system.



Myron Zucker, Inc. offers **fixed**, **automatic**, and **active** harmonic filters designed to correct poor power factor and eliminate or reduce the damaging levels of harmonics present in an electrical system.

## HARMONIC FILTERS - FIXED

- **Caltrap® series:** Designed to treat individual motors or drives
- **Capacitrap® series:** Designed to treat system harmonics at the service entrance or distribution center under constant load conditions

## HARMONIC FILTERS - AUTOMATIC

- **Autocapacitrap™ series:** Designed to treat system harmonics under varying load conditions
- **ZT Capacitrap series:** Designed to treat system harmonics under rapidly changing load conditions. The ZT series utilizes thyristor soft-switching technology which prevents transients. For additional information visit [www.myronzucker.com](http://www.myronzucker.com).

## HARMONIC FILTERS - ACTIVE

- **Digital Power Manager series:** Designed to instantly react to and correct a wide range of harmonic conditions using inverter technology. For additional information visit [www.myronzucker.com](http://www.myronzucker.com).

### HARMONIC FILTER BENEFITS:

- Mitigate harmonic distortion and improve power factor
- Comply with industry standards including IEEE 519
- Extend life of equipment
- Reduce downtime while improving power quality

# CALTRAP™ Brand Harmonic Filter Series

## CALTRAP™

### APPLICATIONS

- At the load
- Branch panel
- Main service entrance

### STANDARD FEATURES

- UL 508A listed
- 2-year warranty
- 3-line fusing with blown fuse indication
- Harmonic duty cells
- Capacitor rated contactors
- Inductor high-temperature indication
- Discharge resistors per NEC requirements
- Assembled in the USA

### STANDARD RATINGS

- 240, 480, 600 Volts
- 3-phase
- 60 Hertz



### CAPACITOR CELLS

- 20-year rated life
- 5-year warranty
- Self-contained, 3-phase, delta-connected
- Industrial grade construction
- Non-PCB, non-toxic, biodegradable impregnation fluid
- Losses of less than ½ watt per kVAR
- Self-healing metallized polypropylene dielectric film
- 3-phase pressure-actuated interrupter
- Hermetically sealed steel case
- Threaded insulated terminals

### FUSES

- Fast-acting, current-limiting, with 200,000 ampere interrupting capacity

### ENCLOSURES

- Built to NEMA 12 specifications for indoor use
- Wall-mounted enclosure
- Fan-cooled

### FIELD WIRING TERMINATION

- Mechanical connections are provided for all field wiring termination points

### CELTEL® MONITORING SYSTEM

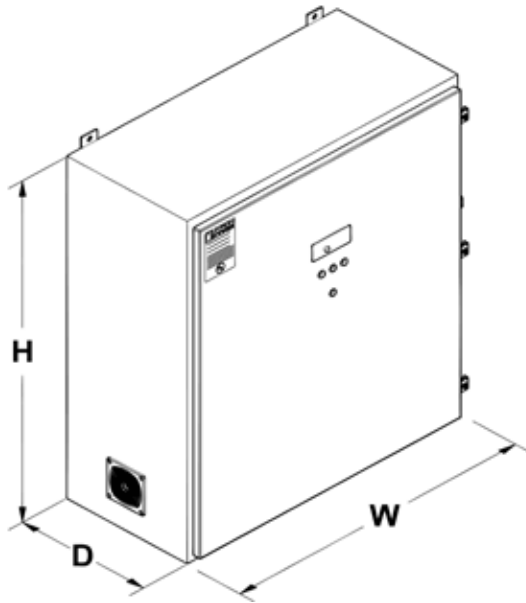
- Loss-of-capacitance indication
- Indicates when capacitor assembly is no longer functioning effectively
- Phase imbalance indication
- Overcurrent and undercurrent indication
- Reset function
- Self diagnostic function

### INDUCTORS

- 3-phase, iron core PolyGap™ core structure
- 600V class H rated insulation
- Temperature switch

### OPTIONS

- Circuit breaker or disconnect switch
- Other voltage and phase applications available
- Other enclosure ratings available
- Other kVAR configurations available
- Air conditioned enclosure
- Mounting legs for free-standing option
- Line reactor for load isolation



ENCLOSURE DIMENSIONS			
ENC.	H	W	D
W1	30.00	24.00	16.00
W3	36.00	30.00	16.00
W7	48.00	36.00	16.00

All dimensions are in inches. Myron Zucker, Inc. reserves the right to change dimensions without notice.

## STANDARD SELECTION CHART

240V / 3Φ / 60Hz				480V / 3Φ / 60Hz				600V / 3Φ / 60Hz			
kVAR	PART NUMBER	AMPS*	ENC.	kVAR	PART NUMBER	AMPS*	ENC.	kVAR	PART NUMBER	AMPS*	ENC.
5	RIM33005-3H5E	13	W1	10	RIM53010-3H5E	13	W1	10	RIM73010-3H5E	11	W1
10	RIM33010-3H5E	26	W1	20	RIM53020-3H5E	26	W1	20	RIM73020-3H5E	21	W1
15	RIM33015-3H5E	40	W1	30	RIM53030-3H5E	40	W1	30	RIM73030-3H5E	32	W1
20	RIM33020-3H5E	53	W1	40	RIM53040-3H5E	53	W1	40	RIM73040-3H5E	42	W1
25	RIM33025-3H5E	66	W3	50	RIM53050-3H5E	66	W3	50	RIM73050-3H5E	53	W3
30	RIM33030-3H5E	79	W3	60	RIM53060-3H5E	79	W3	60	RIM73060-3H5E	64	W3
40	RIM33040-3H5E	106	W7	80	RIM53080-3H5E	106	W7	80	RIM73080-3H5E	85	W7
50	RIM33050-3H5E	132	W7	100	RIM53100-3H5E	132	W7	100	RIM73100-3H5E	106	W7

\*The ampacity of capacitor circuit conductors shall not be less than 135% of the rated circuit of the capacitor Per NEC 2008

NOTE: The above part numbers are for the 5th harmonic. For other harmonic applications, change the part number suffix.

EXAMPLE: 7th = H7, 11th = H11, etc.

# CAPACITRAP® Brand Harmonic Filter Series

## CAPACITRAP®

### APPLICATIONS

- Branch panel
- Main service entrance

### STANDARD FEATURES

- UL 508A listed
- 2-year warranty
- 3-line fusing with blown fuse indication
- Harmonic duty cells
- Capacitor rated contactors
- Inductor high-temperature indication
- Discharge resistors per NEC requirements
- Assembled in the USA

### STANDARD RATINGS

- 240, 480, 600 Volts
- 3-phase
- 60 Hertz



### CAPACITOR CELLS

- 20-year rated life
- 5-year warranty
- Self-contained, 3-phase, delta-connected
- Industrial grade construction
- Non-PCB, non-toxic, biodegradable impregnation fluid
- Losses of less than ½ watt per kVAR
- Self-healing metallized polypropylene dielectric film
- 3-phase pressure-actuated interrupter
- Hermetically sealed steel case
- Threaded insulated terminals

### FUSES

- Fast-acting, current-limiting, with 200,000 ampere interrupting capacity

### ENCLOSURES

- Built to NEMA 12 specifications for indoor use
- Free-standing with hinged door, lockable door handle and removable eye bolts
- Fan-cooled

### FIELD WIRING TERMINATION

- Mechanical connections are provided for all field wiring termination points

### CELTEL® MONITORING SYSTEM

- Loss-of-capacitance indication
- Indicates when capacitor assembly is no longer functioning effectively
- Phase imbalance indication
- Overcurrent and undercurrent indication
- Reset function
- Self diagnostic function

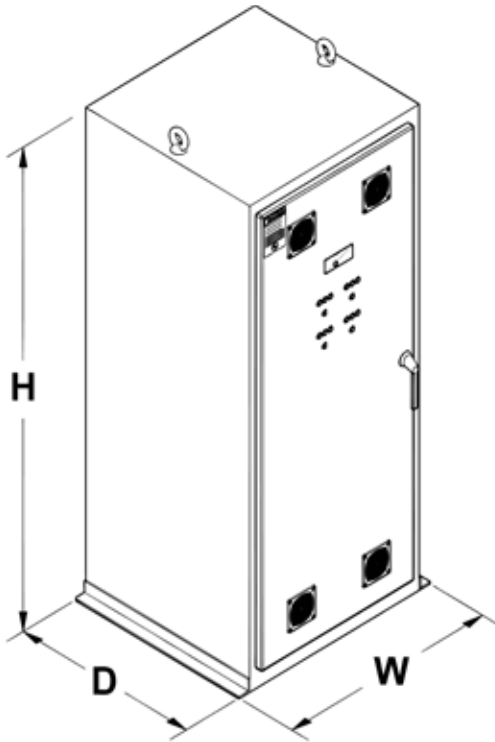
### INDUCTORS

- 3-phase, iron core PolyGap™ core structure
- 600V class H rated insulation
- Temperature switch

### OPTIONS

- Circuit breaker or disconnect switch
- Other voltage and phase applications available
- Other enclosure ratings available
- Other kVAR configurations available
- Air conditioned enclosure





ENCLOSURE DIMENSIONS			
ENC.	H	W	D
F2	74.00	31.00	30.00
F3	84.00	46.00	30.00

All dimensions are in inches. Myron Zucker, Inc. reserves the right to change dimensions without notice.

## STANDARD SELECTION CHART

240V / 3Φ / 60Hz				480V / 3Φ / 60Hz				600V / 3Φ / 60Hz			
kVAR	PART NUMBER	AMPS*	ENC.	kVAR	PART NUMBER	AMPS*	ENC.	kVAR	PART NUMBER	AMPS*	ENC.
75	CIM33075-3H5E	198	F2	150	CIM53150-3H5E	198	F2	150	CIM73150-3H5E	159	F2
100	CIM33100-3H5E	265	F2	200	CIM53200-3H5E	265	F2	200	CIM73200-3H5E	212	F2
125	CIM33125-3H5E	331	F2	250	CIM53250-3H5E	331	F2	250	CIM73250-3H5E	265	F2
150	CIM33150-3H5E	397	F2	300	CIM53300-3H5E	397	F2	300	CIM73300-3H5E	318	F2
175	CIM33175-3H5E	463	F3	350	CIM53350-3H5E	463	F3	350	CIM73350-3H5E	370	F3
200	CIM33200-3H5E	529	F3	400	CIM53400-3H5E	529	F3	400	CIM73400-3H5E	423	F3
250	CIM33250-3H5E	662	F3	500	CIM53500-3H5E	662	F3	500	CIM73500-3H5E	529	F3
300	CIM33300-3H5E	794	F3	600	CIM53600-3H5E	794	F3	600	CIM73600-3H5E	635	F3

\*The ampacity of capacitor circuit conductors shall not be less than 135% of the rated circuit of the capacitor Per NEC 2008  
 NOTE: The above part numbers are for the 5th harmonic. For other harmonic applications, change the part number suffix.  
 EXAMPLE: 7th = H7, 11th = H11, etc.

# AUTOCAPACITRAP™ Brand Harmonic Filter Series

## APPLICATIONS

- Branch panel
- Main service entrance

## STANDARD FEATURES

- UL 508A listed
- 2-year warranty
- 3-line fusing with blown fuse indication
- Automatically maintains target power factor
- Harmonic duty cells
- Capacitor rated contactors
- Inductor high-temperature indication
- Discharge resistors per NEC requirements
- Assembled in the USA

## STANDARD RATINGS

- 240, 480, 600 Volts
- 3-phase
- 60 Hertz



## CAPACITOR CELLS

- 20-year rated life
- 5-year warranty
- Self-contained, 3-phase, delta-connected
- Industrial grade construction
- Non-PCB, non-toxic, biodegradable impregnation fluid
- Losses of less than ½ watt per kVAR
- Self-healing metallized polypropylene dielectric film
- 3-phase pressure-actuated interrupter
- Hermetically sealed steel case
- Threaded insulated terminals

## FUSES

- Fast-acting, current-limiting, with 200,000 ampere interrupting capacity

## ENCLOSURES

- Built to NEMA 12 specifications for indoor use
- Free-standing with hinged door, lockable door handle and removable eye bolts
- Fan-cooled

## FIELD WIRING TERMINATION

- Mechanical connections are provided for all field wiring termination points

## AUTOMATIC POWER FACTOR (VAR) CONTROLLER

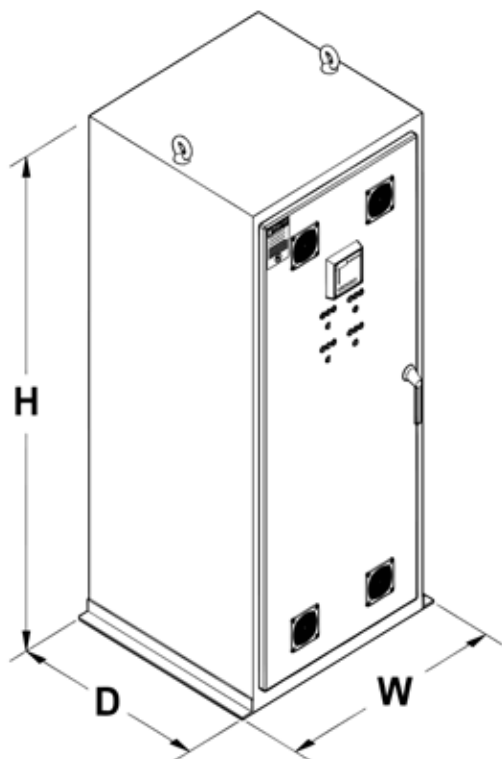
- Digital programming with dual displays
- Voltage and current measurement
- Independent voltage measure input
- Internal panel temperature sensor
- Voltage and current harmonic event log
- RS232 programming and supervision interface
- RS485 supervision interface
- Automatic set-up function
- Capacitor overload protection and step failure

## INDUCTORS

- 3-phase, iron core PolyGap™ core structure
- 600V class H rated insulation
- Temperature switch

## OPTIONS

- Circuit breaker or disconnect switch
- Other voltage and phase applications available
- Other enclosure ratings available
- Other kVAR configurations available
- Air conditioned enclosure
- Remote supervision for PC interface



ENCLOSURE DIMENSIONS			
ENC.	H	W	D
F2	74.00	31.00	30.00
F3	84.00	46.00	30.00

All dimensions are in inches. Myron Zucker, Inc. reserves the right to change dimensions without notice.

## STANDARD SELECTION CHART

240V / 3Φ / 60Hz					480V / 3Φ / 60Hz					600V / 3Φ / 60Hz				
kVAR	PART NUMBER	STEP SIZE	AMPS	ENC.	kVAR	PART NUMBER	STEP SIZE	AMPS	ENC.	kVAR	PART NUMBER	STEP SIZE	AMPS	ENC.
75	ACIM33075-3H5	25	198	F2	150	ACIM53150-3H5	50	198	F2	150	ACIM73150-3H5	50	159	F2
100	ACIM33100-3H5	25	265	F2	200	ACIM53200-3H5	50	265	F2	200	ACIM73200-3H5	50	212	F2
125	ACIM33125-3H5	25	331	F2	250	ACIM53250-3H5	50	331	F2	250	ACIM73250-3H5	50	265	F2
150	ACIM33150-3H5	25	397	F2	300	ACIM53300-3H5	50	397	F2	300	ACIM73300-3H5	50	318	F2
175	ACIM33175-3H5	25	463	F3	350	ACIM53350-3H5	50	463	F3	350	ACIM73350-3H5	50	370	F3
200	ACIM33200-3H5	25	529	F3	400	ACIM53400-3H5	50	529	F3	400	ACIM73400-3H5	50	423	F3
250	ACIM33250-3H5	25	662	F3	500	ACIM53500-3H5	50	662	F3	500	ACIM73500-3H5	50	529	F3
300	ACIM33300-3H5	50	794	F3	600	ACIM53600-3H5	100	794	F3	600	ACIM73600-3H5	100	635	F3

\*The ampacity of capacitor circuit conductors shall not be less than 135% of the rated circuit of the capacitor Per NEC 2008

NOTE: The above part numbers are for the 5th harmonic. For other harmonic applications, change the part number suffix.

EXAMPLE: 7th = H7, 11th = H11, etc.

# MYRON ♦ ZUCKER

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## INDUSTRIES SERVED

- Automotive
- Aerospace
- Material Handling
- Machine Tool
- Hospitals & Laboratories
- Plastics
- Steel Mills & Foundries
- Waste Water Treatment
- Lumber Mills
- HVAC
- Plating
- Paper & Printing
- Wind Generation
- Recreation & Amusement

## OUR SERVICES

- Utility Bill Analysis
- Plant Power Survey & Audit
- Custom Applications
- Installation, Start-up & Commissioning
- Reconditioning of All Makes & Models
- Preventative Maintenance & Repair

## PRODUCT BENEFITS

- Reduce Energy Costs
- Eliminate Utility Penalties
- Increase Transformer Capacity
- Decrease Facility Downtime
- Comply With Industry Standards
- Protect Sensitive Equipment

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