INSTALLATION INSTRUCTIONS FOR *TRAYMOUNT*® BRAND CAPACITORS

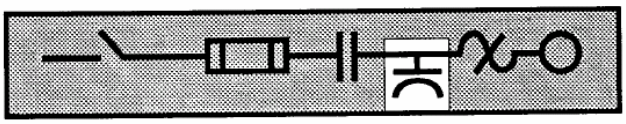
GENERAL

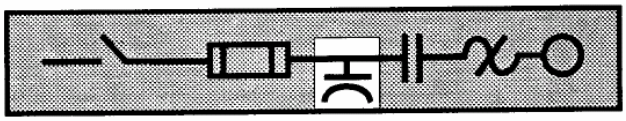
Congratulations! You have purchased the finest power capacitor available. All Myron Zucker, Inc. ***Traymount***® brand capacitors are made with state-of-the-art metallized cells designed for low electrical loss and long life. All wiring, connectors, and other components are top quality. To ensure that you obtain satisfactory service from your ***Traymount***® brand capacitors, please follow these installation instructions.

LOCATION

Where to connect capacitors:

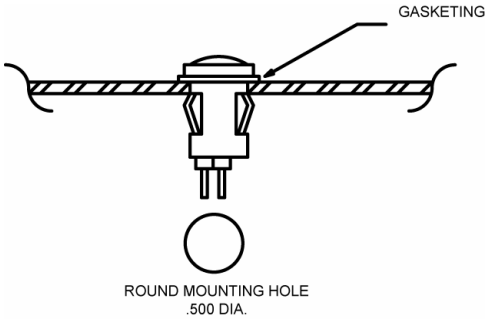
Traymount® brand capacitors can be connected either at the load (Circuit 1), or on the line of a motor controller (Circuit 2). In either case, the capacitor must be connected through the motor disconnect device and must have overcurrent protection.


Circuit 1


Circuit 2

Avoid locations with harmonic voltages or currents. **CAUTION**: *Power factor correction capacitors alone are not for use in systems where harmonic currents can overload a capacitor with excess current and/or heat. Any warranty claims will not be covered if capacitors are exposed to harmonic currents. Contact Myron Zucker, Inc. for products that can be used in the presence of harmonics.*

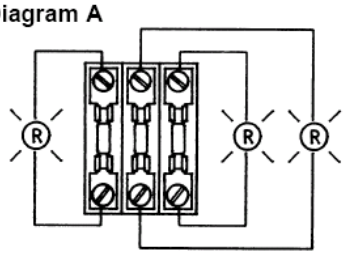
1 Mount warning lights in door or other appropriate place using diagram shown below.



2 Suggested warning light configuration shown below.

3 Blown fuse lights should be wired as shown in Diagram A.

Diagram A



Blown Fuse Light Wiring

www.myronzucker.com
36825 Metro Court · Sterling Heights, MI 48312 | (800) 245-0583 | (586) 979-9955 | Fax (586) 979-9484

4 **Select proper wire size**. **CAUTION**: *Use copper conductors only. Unit terminals are not designed to accept other type wiring. The use of aluminum wiring may cause galvanic corrosion and/or overheating at the connection points with resultant equipment failure.*

RECOMMENDED WIRE SIZES, SWITCHES AND FUSES FOR 3-PHASE, 60 Hz CAPACITORS

(These wire sizes are based on 135% of rated current in accordance with the National Electrical Code, Article 460)

	240 VOLTS				480 VOLTS				600 VOLTS			
KVAR	Current* (Amps)	Wire Size 90° C-Type THHN XHHW* or Equiv.†	Fuse (Amps)	C.B. or Switch (Amps)	Current* (Amps)	Wire Size 90° C-Type THHN XHHW* or Equiv.†	Fuse (Amps)	C.B. or Switch (Amps)	Current* (Amps)	Wire Size 90° C-Type THHN XHHW* or Equiv.†	Fuse (Amps)	C.B. or Switch (Amps)
1	2.4	14	5	30	1.2	14	3	30	1.0	14	3	30
1.5	3.6	14	6	30	1.8	14	3	30	1.4	14	3	30
2	4.8	14	10	30	2.4	14	5	30	1.9	14	3	30
2.5	6.0	14	10	30	3.0	14	6	30	2.4	14	5	30
3	7.2	14	15	30	3.6	14	6	30	2.9	14	5	30
4	9.6	12	20	30	4.8	14	10	30	3.8	14	6	30
5	12	12	20	30	6.0	14	10	30	4.8	14	10	30
6	14	10	25	30	7.2	14	15	30	5.8	14	10	30
7.5	18	10	30	30	9.0	14	15	30	7.2	14	15	30
10	24	8	40	60	12	12	20	30	9.6	12	20	30
12.5	30	8	50	60	15	10	25	30	12	12	20	30
15	36	6	60	60	18	10	30	30	14	10	25	30
17.5	42	6	70	100	21	8	35	60	16	10	30	30
20	48	4	80	100	24	8	40	60	19	8	35	60
22.5	54	4	90	100	27	8	50	60	22	8	35	60
25	60	2	100	100	30	8	50	60	24	8	40	60
27.5	66	2	125	200	33	6	60	60	26	8	45	60
30	72	2	125	200	36	6	60	60	29	8	50	60
32.5	78	1/0	150	200	39	6	65	100	31	8	50	60
35	84	1/0	150	200	42	6	70	100	34	6	60	60
37.5	90	1/0	150	200	45	6	75	100	36	6	60	60
40	96	2/0	175	200	48	4	80	100	38	6	65	100
42.5	102	2/0	175	200	51	4	90	100	41	6	70	100
45	108	3/0	200	200	54	4	90	100	43	6	75	100
50	120	3/0	200	200	60	2	100	100	48	4	80	100
52.5	126	3/0	200	200	63	2	110	200	50	4	80	100
55	132	4/0	250	400	66	2	125	200	53	4	90	100
60	144	4/0	250	400	72	2	125	200	58	2	100	100
65	156	4/0	250	400	78	1/0	150	200	62	2	110	200
70	168	300MCM	300	400	84	1/0	150	200	67	2	125	200
75	180	300MCM	300	400	90	1/0	150	200	72	2	125	200
80	192	350MCM	350	400	96	2/0	175	200	77	1/0	150	200
90	216	500MCM	400	400	108	3/0	200	200	86	1/0	150	200
100	240	500MCM	400	400	120	3/0	200	200	96	2/0	175	200
125	300	(2)4/0	500	600	150	4/0	250	400	120	3/0	200	200
150	360	(2)300MCM	600	600	180	300MCM	300	400	144	4/0	250	400
175	420	(2)350MCM	700	800	210	500MCM	400	400	168	300MCM	300	400
200	480	(2)500MCM	800	800	240	500MCM	400	400	192	350MCM	350	400
225	540	(3)300MCM	900	1200	270	(2)4/0	500	600	216	500MCM	400	400
250	600	(3)350MCM	1000	1200	300	(2)4/0	500	600	240	500MCM	400	400
275	660	(3)500MCM	1100	1200	330	(2)300MCM	600	600	264	(2)4/0	500	600
300	720	(3)500MCM	1200	1200	360	(2)300MCM	600	600	288	(2)4/0	500	600
350					420	(2)350MCM	700	800	336	(2)300MCM	600	600
400					480	(2)500MCM	800	800	384	(2)350MCM	700	800
450					540	(3)300MCM	900	1200	432	(2)400MCM	750	800
500					600	(3)350MCM	1000	1200	480	(2)500MCM	800	800
550					660	(3)500MCM	1100	1200	528	(3)300MCM	900	1200
600					720	(3)500MCM	1200	1200	576	(3)350MCM	1000	1200

* Rated current based on operation at rated voltage, frequency, and KVAR

† Consult National Electrical Code for other wire types. Above size based on 35°C Ambient Operation. (Refer to NEC table 310-16.)

Note: Fuses furnished within Capacitor Assembly may be rated at higher value than shown in this table. The table is correct for field installations and reflects the manufacturer's suggested rating for overcurrent protection and disconnect means in compliance with the National Electrical Code.

5 **Attach wires to capacitors**. Electrical connections to ***Traymount***® brand capacitors are made either to fuse blocks, terminal blocks, or distribution blocks. Use compression lugs on wires to fuse blocks. Connect a single-phase wire to each terminal, and be sure to attach a grounding wire to ground lug. On trays with multiple units, each capacitor is wired to a separate fuse block.