





- **A. TurboMeter**TM Simultaneously test and display MFD values for fan and compressor
- **B. TurboRMAC**TM Replaces any one of 57 different single or dual values up to 52.5MFD, with a voltage rating up to 290VAC
- **C. Turbo200X®** Run capacitor that replaces any of the higher range single or dual capacitors used in scroll compressors and higher efficiency A/C units, values up to 97.5MFD 370/400V
- D. TurboMini® A permanent replacement run capacitor for fan size values 2.5MFD to 15MFD
- E. Turbolytic[™] JR More compact start capacitor offers combined values up to 227MFD
- F. TurbolyticTM 50 Motor start capacitor can replace any of the most popular values up to 302MFD
- G. Turbo200®- Run capacitor that replaces over 200 single or dual values up to 67.5MFD
- H. Turbo Easy Start 4 Universal 2-wire hard start
- I. TurboMini® Oval A permanent replacement run capacitor for fan size values 2.5MFD to 15MFD





Universal Turbo Capacitors									
Specifications	TurboMini	TurboMini Oval	Turbo200	Turbo200X	TES4	Turbolytic 50	Turbolytic JR	TurboRMAC	TurboMeter
Case Qty	50	50	20	16	8	16	20	18	1 ea
Value Range	2.5 to 15MFD	2.5 to 15MFD	2.5 to 67.5MFD	Up to 97.5MFD	Up to 324 MFD	Up to 302MFD	Up to 227MFD	Up to 52.5MFD	All
Voltage Range	370/440V	370/440V	370/440V	370/440V	370/440V	Up to 330V	Up to 330V	Up to 290V	

For your safety and performance, the Turbo®200 series has been tested and approved to the highest certification level of UL (Underwriters Laboratories) Standard 810; 10,000 AFC; Protected. (As required for all "original equipment" motor-run capacitors).

The Turbo®200 is produced under one or more American Radionic patent numbers: 3,921,041; 4,028,595; 4,312,027; 4,312,145; 5,313,360; 6,014,308. Additional US and foreign Patents Pending. The Turbo®200 is designed, developed and manufactured by American Radionic Co, Inc, Palm Coast Florida USA.





AmRad's Turbo200 Motor-Run Capacitors

A Capacitor Warehouse in Your Pocket!



With the Turbo200 you will ALWAYS have the correct motor-run capacitor values on site!

Turbo200- Replaces over 200 single and dual capacitors up to 67.5 mfd at 370/440V

Turbo200X- Replaces over 350 single and dual capacitors up to 97.5 mfd at 370/440V

Turbo200 Mini- Offers 7 popular single values ("fan sizes") up to 15 mfd at 370/440V

The Turbo200 capacitors are industrial-grade, permanent replacement part.

*Incorporated with the same film dielectric technology used in AmRad's motor-run capacitors. Turbo200 capacitors are safety protected using a UL approved safety interrupter- the same safety mechanisms used in all AmRad capacitors.



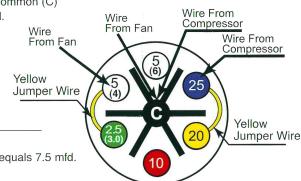


Turbo200 Capacitor Wiring Instructions

EXAMPLE: Using the Turbo200® to replace a 45+7.5 microfarad dual-value capacitor.

Steps:

- Make note of the wires which are attached to the fan motor (F), common (C) and compressor (Herm) terminals of the capacitor being replaced.
- 2) To achieve the 45.0 microfarad for the compressor (HERM): Using one (1) yellow jumper wire, connect the 25 mfd to the 20 mfd which then equals a 45 mfd.
- Connect one of the wires from the compressor to the 25 MFD.
- Connect the other wire(s) <u>from</u> the compressor to the common (C). [The common is the center black terminal].
- 5) To obtain a 7.5 mfd for the fan (F): Using one (1) yellow jumper wire, connect either <u>one</u> of the 5 mfds to the 2.5 mfd which then equals 7.5 mfd.
- Connect one wire <u>from</u> the fan to the 5.0 mfd which has been jumped to the 2.5 mfd (as shown).
- 7) Connect the other wire from the fan motor to the common (C). [The common is the center black terminal].



Note: Jumper wires are supplied with the TURBO2008.

This is just a partial list of the many single and dual-value capacitors that can be replaced with AmRad's Turbo® 200									
30/3	25/5	25/7.5	25/10	30/5	30/7.5	30/10	30/12.5	35/4	35/5
35/7.5	35/10	40/5	40/7.5	40/10	45/5	40/3	45/7.5	45/10	50/5
50/7.5	50/10	50/12.5	55/5	55/7.5	55/10	55/12.5	60/7.5	60/4	60/4
30/4	45/12.5	35/12.5	60/6	60/5	35/6	45	50	60	65
This is just a partial list of the many single and dual-value capacitors that can be replaced with AmRad's Turbo. 200X									
60/10	70/5	70/10	80/5	80/7.5	80/10	90/5	90/7.5	70	80
25/12.5	30/7.5	30/5	35/5	40/7.5	45/5	50/5	50/10	55/7.5	60/5

FEATURES:

- All brass plated terminals which have been plated to increase performance, reliability, prevent corrosion and improve conductivity.
- TURBO200-conforms to applicable U.L. requirements including 10,000 AFC. U.L.
 File number E133000. (CYWT2) Internally Protected.

VoltageRatings:370VACor440VAC@60Hz.						
Model	Voltage Range	Includes				
Turbo®200	2.5 mfd to 67.5 mfd	Jumper wires and color coded chart to derive the exact val-				
Turbo®200X	5 mfd to 97.5 mfd	ues you need				

The Turbo®200 is produced under one or more American Radionic United States patent numbers: 8,270,143; 7,835,133, 7,474,519; 7,423,861; 7,203,053; 6,014,308; 5,313,360; 4,312,145; 4,312,027; 4,028,595. The Turbo®200 series is designed, developed and manufactured by American Radionic Co, Inc., Palm Coast, Florida 32137 USA





AmRad's TURBO EASY-START™ 4

Another AmRad Invention for the Service Technician

ONE UNIVERSAL EASY-START 4 can be used in place of any one of the **FOUR** commonly used Hard-Start kits on Turbo® Easy-Start"4"™ MONRE UNIVERSAL 'LOW LOSS' METALLIZED MOTOR-START CAPACITOR WITH BUILT-IN the market today. POTENTIAL RELAY Can be used in over 90% of refrigeration and air conditioning applications. The modern*, high-microfarad capacitor and potential relay are enclosed with in F THE FOUR (4) MOTOR-START COMBINATION AS SHOWN IN THE SIMPLE STEPS TO THE ASY-Start "4": Up to 1 TON (108 to 130mfds)

year

WARRANTY

It's "Easy to Use" It's "Easy to Start"

asy-Start "4": 2.5 to 3 TONS (233 to 280mfds)

Simply select the capacitance for your equipment.

hermetically-sealed aluminum housing (protecting it from harsh environments).

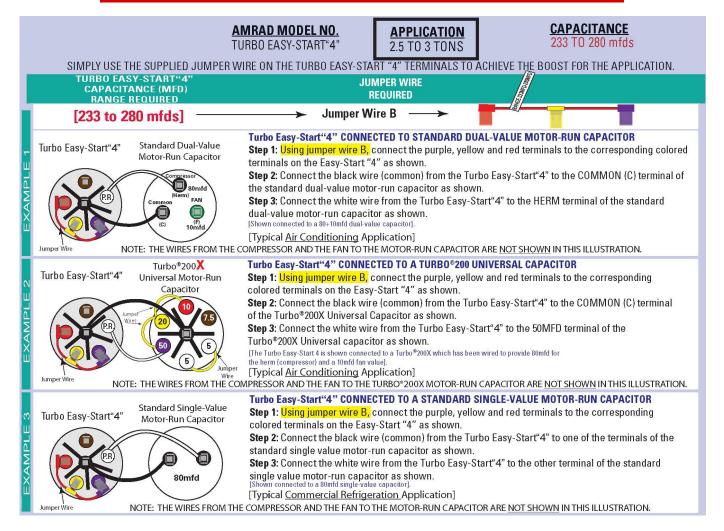
No relay wire...

*Incorporated with the same film dielectric technology used in AmRad's motor run capacitors. The TES4 is safety protected using a UL approved safety interrupter- the same safety mechanisms used in all AmRad capacitors.





Turbo Easy-Start™ 4 Wiring Instructions



AmRad's Easy-Start "4" is produced under one or more of the following U.S. Patents: 8,270,143; 7,835,133, 7,474,519; 7,423,861; 7,203,053; 6,014,308; 5,313,360; 4,312,145; 4,312,027; 4,028,595.





AmRad's Turbolytic[™]50 and Turbolytic[™]Jr

The World's First Multiple-Value Motor-Start Capacitors



ONE Turbolytic[™] 50 can replace any one of 64 DIFFERENT motor-start capacitance values!

Turbolytic 50- Replaces 50 popular values up to 302 mfd at 330VAC

Turbolytic Jr- Replaces 12 of the most popular values up to 227 mfd at 330VAC

The Turbolytic[™]50 and Turbolytic[™]Jr are industrial-grade, permanent replacement parts.

*Incorporated with the same film dielectric technology used in AmRad's motor-run capacitors. the Turbolytic[™]50 and Turbolytic[™]Jr are safety protected using a UL approved safety interrupter- the same safety mechanisms used in all AmRad capacitors.





Turbolytic™50 Wiring Instructions

By the simple use of jumper wires (supplied), combine the motor start capacitor values needed. See the chart below. These are the most popular motor start capacitance values use in air conditioning and refrigeration.

Items 1 to 14 (up to 270 - 324 microfarads) are available in the Turbolytic™50

For <u>lower</u> capacitance values, the smaller Turbolytic™Jr covers all ranges up to and including 189-227 microfarads

The Turbolytic™50 size is: 2.5 inch round (base) X 5.75 inch height (not including terminals)

The Turbolytic™Jr size is: 2.5 inch round (base) X 4.50 inch height (not including terminals)

SII	"COMMON" DE OF THE CITOR IS THE K TERMINAL	ITEM	TO REPLACE A CAPACITOR IN THIS RANGE*	USE THESE MFD VALUES ON THE TURBOLYTIC™ 50	FINAL REPLACEMENT VALUE WHICH THEN FALLS WITHIN THE APPROPRIATE RANGE (IN MFD)
EXAMPLE : Using the Tur	bolytic™ 50	1	21-25 MFD	23 =	23 MFD TOTAL
to replace a 108-130 mfd motor-start capacitor - (Item 6)			30-36 MFD	33 =	33 MFD TOTAL
Step 1) Use one yellow jumper wire	nper wire	3	34-53 MFD	43 =	43 MFD TOTAL
and connect the red terminal (33 mfd)			72-88 MFD	43 + 43 =	86 MFD TOTAL
and purple terminal (90 mfd) together. This will equal 123 mfd (which falls		5	88-108 MFD	70 + 33 =	103 MFD TOTAL
within the 108-130 mfd rang		6	108-130 MFD	90 + 33 =	123 MFD TOTAL
Step 2) Take the wires which were disconnected from the old motor-start capacitor and connect one wire to		7	124-149 MFD	70 + 43 + 23 =	136 MFD TOTAL
		8	135-155 MFD	90 + 33 + 23 =	146 MFD TOTAL
C (common) and one wire t	to the 90.0	9	145-174 MFD	90 + 70 =	160 MFD TOTAL
Wire To Common	. \	10	161-193 MFD	70 + 90 + 23 =	183 MFD TOTAL
		11	176-216 MFD	70 + 90 + 43 =	203 MFD TOTAL
Yellow (33.0) (23.0)	43.0	12	189-227 MFD	70 + 90 + 33 + 23 =	216 MFD TOTAL
Jumper wire		13	233-288 MFD	70 + 90 + 43 + 43 + 23 =	269 MFD TOTAL
(70.0) C	43.0	14	270-324 MFD	23 + 33 + 43 + 43 + 70 + 90 =	302 MFD TOTAL

[*Note: Motor-Start microfarad (mfd) capacitance values are always shown as a range (low to high)].

The Turbo™50 is produced under one or more American Radionic United States patentnumbers: 7,474,519; 7,423,861; 7,203,053; 6,014,308. Additional patents pending. This series isdesigned, developed and manufactured by American Radionic Co, Inc.





AmRad's Turbo57™RMAC

Innovation for the Appliance and Window A/C Service Technician



Designed specifically to replace capacitors installed in window air conditioning units.

The Turbo57[™]RMAC can replace any one of **57 DIFFERENT** single and dual value capacitors!

Turbo57RMAC- replaces 57 different single and dual value motor-run capacitors for use with 110, 115, or 120V (AC) rated room air conditions

The Turbo57™RMAC is an industrial-grade, permanent replacement part.

*Incorporated with the same film dielectric technology used in AmRad's motor-run capacitors. The Turbo57™RMAC is safety protected using a UL approved safety interrupter- the same safety mechanisms used in all AmRad capacitors.





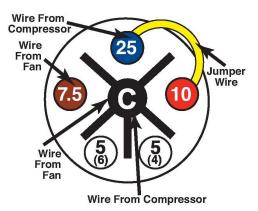
TurboRMAC™ Wiring Instructions

EXAMPLE: To replace a 35+7.5 microfarad dual value capacitor

Steps:

- Make note of the wires which are attached to the fan motor (F), common (C) and compressor (Herm) terminals of the capacitor being replaced.
- To achieve the 35.0 microfarad for the compressor (HERM):
 Using one (1) yellow jumper wire, connect the 25 mfd to the 10 mfd (as shown). This now provides 35 microfarads (mfds).
- Connect one of the wires from the compressor to the 25 microfarad terminal.
- Connect the other wire(s) from the compressor to the common (C). [The common is the center black terminal].
- 5) To obtain the 7.5 microfarad for the fan (F), connect one wire from the fan motor to the 7.5 terminal.
- Connect the other wire from the fan motor to the common (C). [The common is the center black terminal].

35 + 7.5 MFD



The Turbo®57RMAC Enhanced is produced under one or more American Radionic United States patent numbers: 7,835,133, 7,474,519; 7,423,861; 7,203,053; 6,014,308. Additional patents pending. This series is designed, developed and manufactured by American Radionic Co, Inc.

