


# Embraco Compressor Wiring Diagram


Embraco Compressors


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Page 1 of 1

Embraco  
The Company  
HOMEPAGE

  
COMPRESSOR SELECTION CHART

  
EM SERIES

  
PW SERIES

  
FF SERIES

T Y P E	Nominal Motor H.P.	B.T.U. Capacity		Embraco Part #	Replacement Guide		
		L/M H.P.	H. H.P.		Danfoss	Matsushita	Techumseh
E M	1/6	208	-	EM20 ~	TL2A		AZ
	1/12	315	-	EM30 ~	TL3A		AZ1335D
	1/8	420	-	EM40 ~	TFS4A		AE1336A
	1/6	560	-	EM55 ~	TF55A		AZ
P W	1/8	400	-	PW4.5K9 ~	PW4.5A PW4.5K9	FN43F67R	AE1336A AE1343A
F F	1/5	635	2360	FF6BKW		FN66F11R MA16-634A <sup>1</sup>	AE1360A
	1/5+	708	2500	FF7.5BKW	FF37A FR7.5B	FN73F13R MA15-734 <sup>1</sup>	AE3425D
	1/5+	814	2838	FF8.5BKW	FF8A FR8.5A	FM91F17R MA14-889A <sup>1</sup>	AE1380A
	1/5+	875	3050	FF10BKW	FFS9A FF10A		AE3430A
	1/5+	1131	3922	FF11.5BKW		FN110F22S FN110Q22S MA13-1050A <sup>1</sup>	AE1410D AE1411D
	1/5+	1300	4300	FF112BKW	SC12A SC15A		AE1413A AE3440A
B X	1/4+	913	3100	FF10BXW	SC10B FF10BX FF8.5BX		AE4430A
	1/3+	1390	4460	FF112BX <sup>2</sup> ~	SC12B		AE2413 AE4440A

<sup>1</sup> Standard Conditions: L/M B.P.: +10°F Evaporator, +130°F Condensing  
H. B.P.: +45°F Evaporator, +130°F Condensing

-No Oil Coolers  
\*Fan cooling mandatory  
\* Camco/Matsushita

BX Compressors are High Starting Torque  
Oil Cooler Lines indicated by "W" at end of part number  
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**Embraco compressor wiring diagram** is an essential component for understanding how to properly connect and operate Embraco compressors in refrigeration and air conditioning systems. These diagrams provide critical information on the electrical connections and configurations that ensure the efficient functioning of the compressor. This article will explore the importance of Embraco compressor wiring diagrams, discuss common components and connections, and provide tips for safe and effective wiring practices.

# Understanding Embraco Compressors

Embraco is a well-known manufacturer of hermetic compressors used primarily in refrigeration and air conditioning systems. Their compressors are widely used in various applications, from domestic refrigerators to commercial refrigeration units. The reliability and efficiency of these compressors depend significantly on correct wiring as per the provided diagrams.

## Importance of Wiring Diagrams

Wiring diagrams serve several key purposes:

1. **Clarity of Electrical Connections:** They illustrate how different components are interconnected, helping technicians avoid confusion during installation or maintenance.
2. **Troubleshooting Aid:** In case of malfunction, a wiring diagram can help identify faulty connections or components.
3. **Guidance for Modifications:** If a system needs upgrades or changes, the diagram provides a reference for making those adjustments safely.

## Components of Embraco Compressor Wiring Diagrams

To properly understand an Embraco compressor wiring diagram, it's vital to familiarize yourself with its key components. Here are some of the most common elements you will encounter:

- **Compressor Terminals:** These are the primary electrical connection points for the compressor, typically labeled as C (common), S (start), and R (run).
- **Capacitor:** A component that helps the compressor start and run efficiently. It may be shown in the diagram with its connection points.
- **Relay:** This device controls the power supply to the compressor, ensuring it starts and stops correctly.
- **Thermostat:** This regulates the temperature by controlling the compressor operation based on the desired temperature settings.
- **Wiring Colors:** Different colors represent various functions, such as power supply, ground, and signal wires.

# Common Wiring Connections

When examining the wiring diagram, you will find several common connections that are essential to the compressor's operation:

1. **Power Supply Connection:** This connection brings electricity from the power source to the compressor and is usually indicated in the diagram.
2. **Capacitor Connections:** The diagram will show how to connect the capacitor to the compressor terminals.
3. **Relay Connections:** The relay often connects the power supply and the compressor to manage the start and stop cycles.
4. **Ground Connections:** Proper grounding is crucial for safety, and the wiring diagram will indicate where to connect ground wires.

## Reading an Embraco Compressor Wiring Diagram

Reading wiring diagrams can be challenging, especially for those who are new to electrical work. Here's a step-by-step guide to help you interpret an Embraco compressor wiring diagram:

### Step 1: Identify the Components

Begin by familiarizing yourself with the symbols used in the diagram. Each component, such as the compressor, capacitor, and relay, will have a unique symbol.

### Step 2: Follow the Wiring Paths

Trace the lines connecting the components. These lines represent the electrical connections. Pay attention to any junction points where wires may split or connect to other components.

### Step 3: Note the Color Codes

Look for any color coding that might indicate the function of the wires. For example, black might indicate the power supply, while green could signify ground.

## Step 4: Pay Attention to Labels

Most wiring diagrams will label each terminal and connection point. Take note of these labels, as they will guide you in making the proper connections.

## Common Wiring Errors to Avoid

Mistakes in wiring can lead to compressor failure or even pose safety hazards. Here are some common errors to avoid:

1. **Incorrect Connections:** Ensure that each wire is connected to the correct terminal as indicated in the diagram.
2. **Neglecting Grounding:** Always connect the ground wire to prevent electrical shock hazards.
3. **Ignoring Wire Sizes:** Use wires that are appropriate for the current load to prevent overheating.
4. **Skipping the Capacitor:** If your compressor requires a capacitor, ensure it is installed correctly.

## Safety Precautions When Wiring Embraco Compressors

Working with electrical components can be dangerous if proper safety precautions are not followed. Here are some essential safety tips:

1. **Disconnect Power:** Ensure that the power supply is disconnected before starting any wiring work.
2. **Use Insulated Tools:** Always use insulated tools to reduce the risk of electric shock.
3. **Wear Protective Gear:** Safety glasses and gloves can protect you from potential hazards.
4. **Double-Check Connections:** Before restoring power, double-check all connections to ensure they match the wiring diagram.
5. **Consult a Professional:** If you are unsure about any aspect of the wiring process, consult a qualified technician.

# Conclusion

Understanding the **Embraco compressor wiring diagram** is crucial for anyone involved in the installation, maintenance, or troubleshooting of Embraco compressors in refrigeration and air conditioning systems. By familiarizing yourself with the components, connections, and safety practices outlined in this article, you can ensure a successful wiring process. Remember, taking the time to carefully follow diagrams and adhere to safety guidelines can prevent errors and enhance the efficiency of your compressor system. Whether you are a seasoned technician or a DIY enthusiast, having a solid grasp of wiring diagrams will serve you well in your refrigeration endeavors.

## Frequently Asked Questions

### **What is an Embraco compressor wiring diagram used for?**

An Embraco compressor wiring diagram is used to understand the electrical connections and layout of components in the compressor, ensuring proper installation and troubleshooting.

### **Where can I find the wiring diagram for my Embraco compressor?**

You can find the wiring diagram for your Embraco compressor in the user manual, on the compressor's label, or by visiting the Embraco website or contacting their customer support.

### **What are the common components shown in an Embraco compressor wiring diagram?**

Common components include the compressor motor, capacitor, relay, overload protector, and power supply connections.

### **How do I interpret the symbols used in an Embraco compressor wiring diagram?**

Each symbol represents specific electrical components; for example, lines indicate wires, circles may represent connectors, and different shapes signify various electrical devices. A legend is usually provided with the diagram.

### **What safety precautions should I take when working with Embraco compressor wiring?**

Always disconnect power before working on the compressor, use insulated tools, and follow the wiring diagram carefully to avoid short circuits and damage.

## Can I modify the wiring of my Embraco compressor?

Modifying the wiring is not recommended unless you are experienced, as it can affect performance and void warranties. Always refer to the wiring diagram for guidance.

## Why is my Embraco compressor not starting, and how can the wiring diagram help?

Possible reasons include faulty wiring, a defective relay, or capacitor issues. The wiring diagram can help identify the components to check for faults.

## What tools do I need to read and work with an Embraco compressor wiring diagram?

You will need basic electrical tools like a multimeter, screwdrivers, wire strippers, and possibly a soldering iron for any necessary repairs.

## Is there a difference in wiring diagrams for different Embraco compressor models?

Yes, wiring diagrams can vary between models, so it is crucial to use the specific diagram for your compressor model to ensure correct wiring.

## Can I find Embraco compressor wiring diagrams online?

Yes, many resources, including forums, repair websites, and the official Embraco site, provide access to wiring diagrams for various models.

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