

Operation Manual

Glastender®

A Family Company Manufacturing
In The USA Since 1969

Lettuce Crisper* - LC

Countertop Merchandiser* - CM24

**Wall-Mount Refrigerator* - WMR24S-L, WMR24S-R,
WMR24X-L, WMR24X-R**

***This manual is specific to Lettuce Crispers, Countertop Merchandisers, and Wall-Mount Refrigerators manufactured beginning with SN 290188989 and on June 17, 2019 and after**



LC



CM24XX-RR



WMR24S-R

Glastender, Inc. · 5400 North Michigan Road · Saginaw, MI · 48604-9780
800.748.0423 · 989.752.4275 · Fax 989.752.4444 · <https://glastender.com>



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For replacement part information, visit:
<https://www.glastender.com/support/parts>

**WARNING: Components shall be replaced with like components only.
Service shall be done by factory authorized service personnel only,
so as to minimize the risk of possible ignition due to incorrect parts
or improper service.**

Terms and Conditions

<https://www.glastender.com/support/documents/policies/terms-and-conditions>

Warranty

IMPORTANT !! **Attention Service Companies** **IMPORTANT !!**

Please review the important warranty information found here:

<https://www.glastender.com/support/documents/warranty/warranty-statement-form>

If you believe a service call should be covered by the factory, please call 800-748-0423
for authorization 8AM - 5PM EST, Monday through Friday.

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OM-LC-CM-WMR-02

Introduction

This manual describes the operation features of the Lettuce Crisper, Countertop Merchandiser, and Wall-Mount Refrigerator. Please review this information before attempting installation and operation. Long term, trouble-free operation will follow if good housekeeping and maintenance procedures are followed. Thank you for selecting Glastender, Inc. products.

Important Outdoor Use Considerations

Our refrigerated products are not listed to UL standards for outdoor use. We recommend outdoor installations have a roof over the area where our products are in use to protect from direct sun, rain, and snow load.

Our refrigeration models are tested to 100°F ambient to ensure they cool adequately. At 100°F, models listed for open food maintain refrigerated temperature of 40°F or below with less than 70% compressor run time. Mug froster and freezer models will cool, but compressor run time will be high.

For seasonal locations closed during the winter, covering with a tarp is acceptable to protect the units from blowing snow. Tarps or coverings must be vented to prevent condensation which could result in corrosion occurring on the unit. Locations subject to ambient temperatures below 50°F require coolers and other refrigeration models to be unplugged, or circuits turned off during these temperatures as the compressor is not designed to operate below these temperatures.

Utility Requirements and Connections

Electrical: 120 Volt AC, 1 Phase, 60 Hz, 2.5 full load amps. A separate 15 amp circuit is required. A 9-foot grounded cord is included.

Plumbing: Automatic condensate evaporator. No drain connection required.

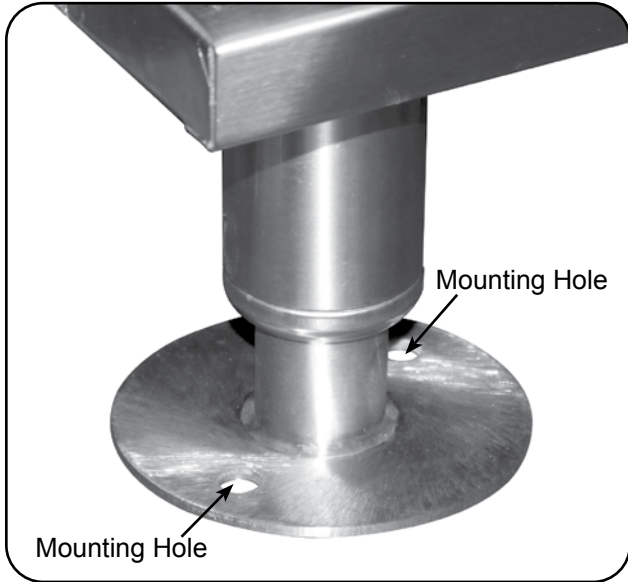
Uncrating and Start-up Instructions

Caution - This Refrigerator contains Flammable R290 Refrigerant. When moving and handling this equipment take care not to damage the refrigerant tubing or components.

All models are shipped in one carton. These steps should be followed:

1. If legs are included, bolt them to the base with bolts provided. Follow installation guide on page 3.
2. For lettuce crisper and wall-mount refrigerator mounting instructions, see page 3.
3. Position unit. It must be level and plumb.
4. Plug into 120 volt AC outlet.
5. Your Glastender equipment is now ready for use.

Mounting Instructions



LEG MOUNTING INSTRUCTIONS:

NOTE: Mounting instruction applies to the lettuce crisper, countertop merchandiser, and wall-mount refrigerator.

NOTE: 8" of air space is required above unit to allow for air flow out. WARNING: Compressor failure due to restriction or blockage of air flow will void warranty.

1. Locate the unit on countertop in final position.
2. Level the unit (front to back and side to side).
3. Mark the countertop through the holes in the flanged foot of the leg.
4. Drill out the marked locations and secure the unit to the countertop using fasteners.

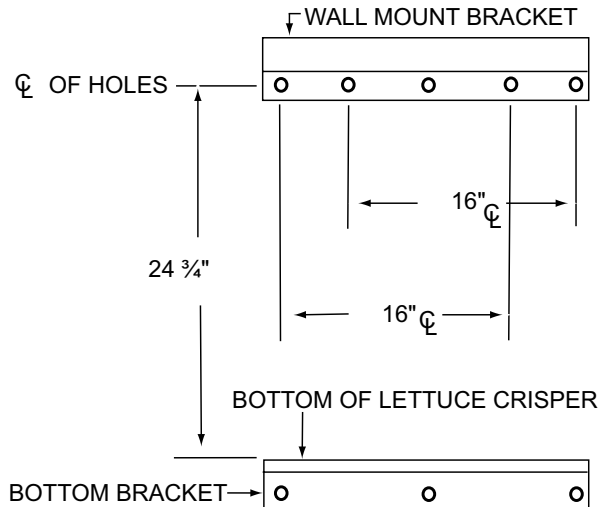
WALL MOUNTING INSTRUCTIONS:

NOTE: Mounting instruction applies to both the lettuce crisper and wall-mount refrigerator. Lettuce crisper shown in illustration.

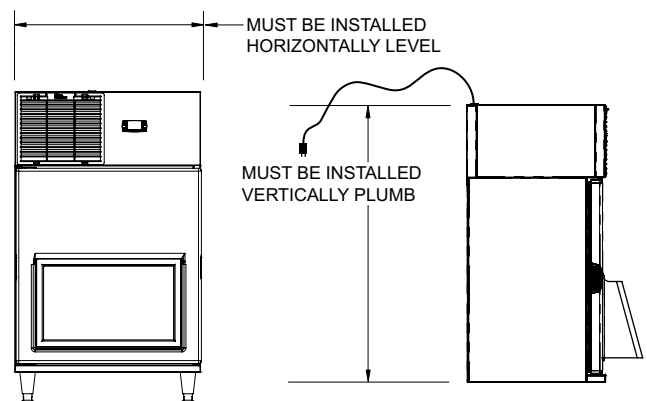
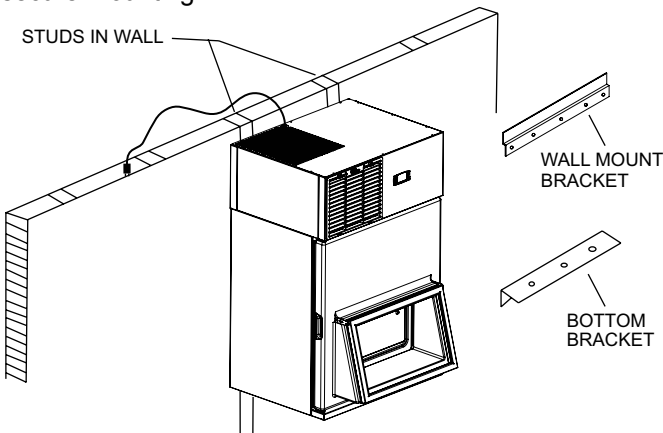
NOTE: 8" of air space is required above unit to allow for air flow out. WARNING: Compressor failure due to restriction or blockage of air flow will void warranty.

1. Mark a level line at the bottom of the lettuce crisper / wall-mount refrigerator.
2. From this line measure up $24\frac{3}{4}$ " and mark another level line.
3. On this line drill holes to match the holes in the wall mount bracket.
4. Install wall mount bracket.
5. Attach lettuce crisper / wall-mount refrigerator.
6. If lettuce crisper / wall-mount refrigerator is not on an existing shelf, secure with bottom bracket.

NOTE: At least two (2) of the mounting holes in the bracket should line up with studs in the wall for safe, secure mounting.



To establish proper sanitation operation and to comply with NSF & health codes, the cooler base or back must be sealed to the surface to which it is mounted using an NSF listed sealant. Place a bead of sealant along outer edges of the base or back and remove any excessive amount. Make sure there are no gaps in the sealant as the intent is to prevent liquid spillage from adjacent surfaces from passing under inaccessible portions of the equipment. This sealing procedure does not apply to models that include legs or casters.



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OM-LC-CM-WMR-02

Cleaning Instructions

ESTIMATED CLEANING TIME: 5 to 10 minutes per unit daily, 20 minutes weekly.

FREQUENCY: Daily cleaning of exterior & door gaskets. Weekly cleaning of interior.

PROCEDURE:

1. A non-chlorine based cleaner or mild detergent and warm water applied with a soft cloth or sponge to all contact surfaces.
2. Immediately rinse off cleaning agent(s), using clean warm water, clean soft cloth or sponge.
3. Dry with a soft clean cloth, removing standing water as soon as possible.
4. A more thorough cleaning of the interior should be done weekly (more frequently as necessary).
5. The condensing unit air filter (front top left) should be removed and thoroughly rinsed in hot clean water at least once per quarter.

NOTES:

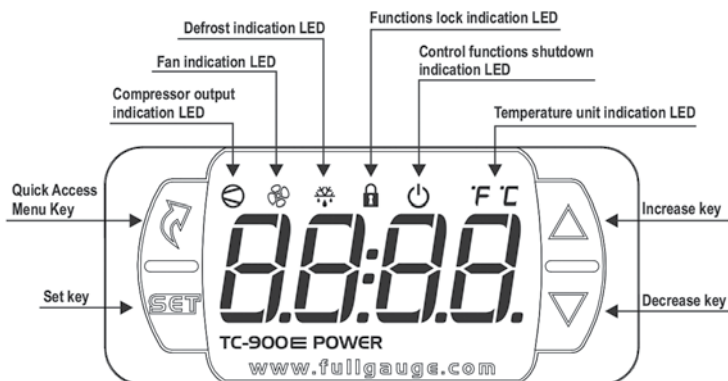
1. Never use hydrochloric acid, wire brushes, steel wool, scrapers, or chlorine based cleaners on stainless steel surfaces, since they will break down the passivity layer and allow corrosion to occur.
2. On stainless steel surfaces, you may use a soft bristle brush or Scotch-Brite® pad for more stubborn stains. Always scrub with the direction of the grain. Follow with a thorough cleaning as described above.
3. Deposits from food preparation must be properly removed. Even hard water deposits will rust stainless steel, if not removed.
4. Door gaskets are most often overlooked when cleaning. Failure to clean them regularly will lead to premature failure, since alcohol and moisture build-up breaks down the gasket material.

Digital Controller Operation

The operating temperature range is preset at the factory according to the table below and can be adjusted up or down within the limits shown.

Setting the desired temperature-

To access the setpoints setup menu, press Set for 2 seconds. The message *SP* will appear on the display followed by the normal setpoint set value. Use the Increase key or Decrease key to modify the value and confirm by pressing Set. Immediately, the message *SP-E* appears indicating the setting of the economic setpoint. Again, use the Increase key or Decrease key to modify the value and confirm by pressing Set. Finally, the *----* indication signals the set up completion. The setpoints can also be adjusted individually in the quick access menu.



	Factory Settings		Range of Adjustment	
	Set Point	Operating Range†	Minimum Set Point	Maximum Set Point
LC, CM, WMR - Standard Cooler Setting	34° F	34° F to 39° F	33° F	65° F
CM, WMR - White Wine Cooler Setting	50° F	50° F to 55° F	33° F	65° F
CM, WMR - Red Wine Cooler Setting	60° F	60° F to 65° F	33° F	65° F

† Adjusting the factory set point will also adjust the operating range by the same amount

The lettuce crisper, countertop merchandiser, and wall-mount refrigerator are programmed to automatically defrost four times daily for approximately twenty minutes. During defrost, the fan inside the cooler will remain on and the refrigeration system will turn off. The defrost process can be activated/deactivated manually in the quick access menu through the *dEFr* or pressing the Increase key for 4 seconds. Activation or deactivation will be indicated by the messages *dEFr On* or *dEFr OFF* respectively.

For units manufactured prior to June 2021: The thermostat controller has an “OFF” function. The shutdown of the control functions allows the controller to operate only as a temperature indicator, keeping the control outputs and alarms off. The use of this feature is enabled or disabled by the shutdown function of the control functions. When enabled, the control functions and alarms are switched off *Ctrl OFF* or on *Ctrl On* in the quick access menu through the *Ctrl* option. When the control functions are off, the message *OFF* is displayed alternating with the temperature and other messages. Also is possible turn on/turn off the control functions by pressing the Increase key for 5 seconds.

Models LC, CM24, and WMR24 - The thermostat control probe wire may become disconnected when the compressor compartment cover and/or grill are removed. This will result in thermostat *Err 1* or *Err 3* code. Service calls to reconnect the probe wiring are not covered by factory warranty.

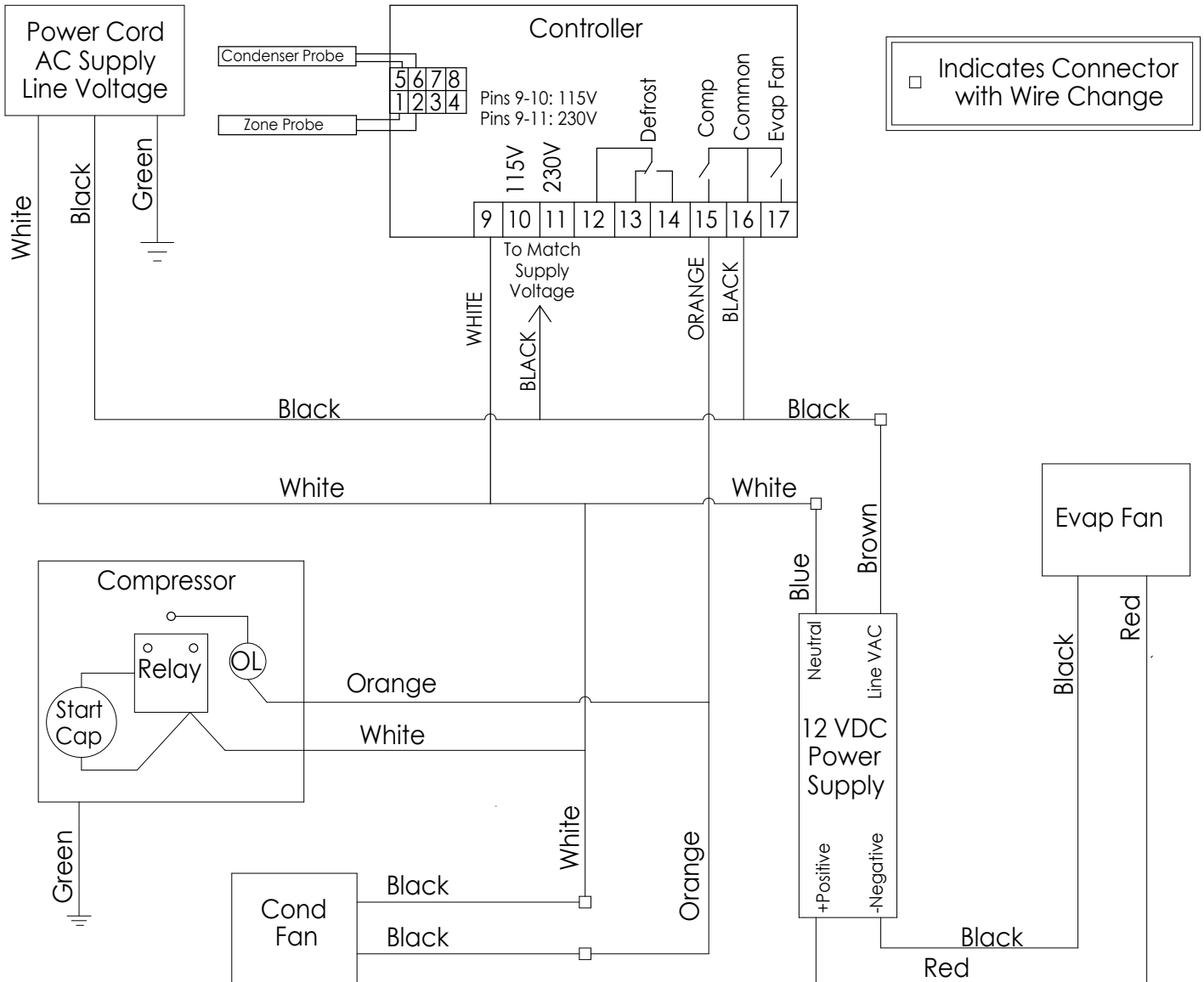
Signals	
<i>Err 1</i>	Ambient sensor disconnected or out of range.
<i>Err 3</i>	Sensor 3 disconnected or out of range.
<i>ECD</i>	Operation with economic setpoint.
<i>Athi</i>	High ambient temperature alarm (sensor1).
<i>AtLo</i>	Low ambient temperature alarm (sensor1).
<i>AC1</i>	High temperature in condenser alarm (level 1). If this signal occurs, condenser may need cleaning.
<i>AC2</i>	High temperature in condenser alarm (level 2). If this signal occurs, condenser may need cleaning.
<i>ALrC</i>	Compressor reached the maximum time on without reaching the SP.
<i>OFF</i>	Control routines off.
<i>----</i>	It indicates that the temperature for end of defrost has not been reached.
<i>ECAL</i>	Please contact Full Gauge Controls.
<i>PPPP</i>	Reconfigure the values of the functions.

Electrical and Refrigeration Specifications

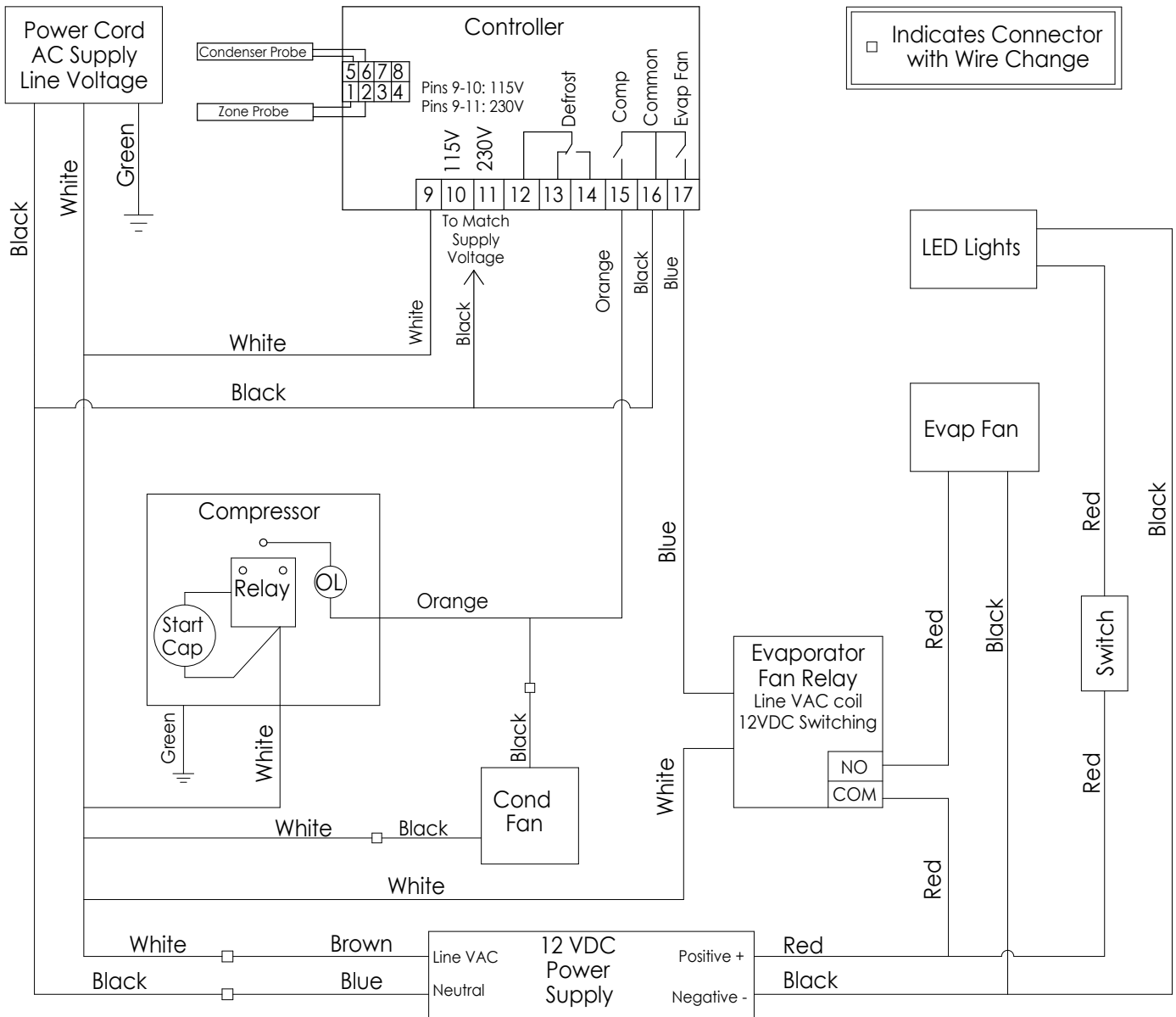
The following electrical and refrigeration specifications apply:

ELECTRICAL	REFRIGERANT		DESIGN PRESSURE	
	TYPE	CHARGE	HIGH	LOW
120V, 1 Ph., 60 Hz., 2.5 AMP	R290	4.23 oz.	245	130

LC Electrical Diagram



CM24 Electrical Diagram



WMR Electrical Diagram

