

INSTALLATION AND OPERATING INSTRUCTIONS for all Hydrocarbon VMCF School Milk Cooler Models



SEE BACK COVER FOR WARRANTY REGISTRATION

WELCOME

Congratulations on your purchase of Victory food service equipment. Every employee welcomes you to the family of satisfied Victory customers.

From the earliest stages of production design, to focused steps in fabrication and assembly, rigid standards of quality are maintained by our staff of skilled employees. Victory strives to supply superior products through strict quality control guidelines exceeding industry standards, this means that each unit, given the proper maintenance will provide years of trouble free experience to its owner.

Important Information

- PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR USING, IF RECOMMENDED PROCEDURES ARE NOT FOLLOWED, WARRANTY CLAIMS MAY BE DENIED.
- Your warranty registration information is located with this manual. Please complete the card and submit it to Victory within TEN days of installation. Failure to properly register equipment may limit or void the warranty.

Additionally, Victory food service equipment has one of the best warranties in the food service industry, and backed by a professional staff of service technicians across the country.

We thank you for your choice and confidence in Victory Equipment.

For part inquiries or orders please call our Technical Service Department at (800) 684-1199. 8:00 AM to 5:00 PM EST.

 Victory reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions, or replacements for previously purchased equipment.

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Victory

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SAFETY

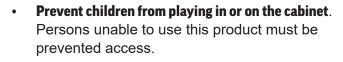
This appliance has been designed with your safety in mind. It has many features to keep you from being harmed. However, safe operation and maintenance are your responsibilities. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.



Use: When using this unit, please:

- **Move it carefully.** If on casters be sure the casters do NOT run over the power cord.
- Lock the casters when in use.
- **Seek help.** This machine is heavy! Be sure to move with enough help to avoid tipping or dropping the cabinet.



- **Follow all instructions**. There are many safety labels and directions on the unit. Heed them.
- **Watch your fingers**. There may be pinch points near the door hinges.



Maintenance

Do NOT:

- Clean a frozen evaporator with a sharp object
- Clean a dirty condenser with a sharp object.
- Store gasoline, kerosene or any other flammable material near the cabinet.

Do ALWAYS

- Use a Victory recommended technician certified to repair R290 equipment.
- Use ONLY Victory factory service parts. Use of non OEM parts can be dangerous because of the design changes needed to safely use R290.

Important Information to Add

Record the model number, serial number and the date of installation here for future reference. The model and serial numbers are on the unit's serial number dataplate, which is located on the left inside wall.

Model Number	
Serial Number	
Date of Installation	
Purchased From	





Observe the **Caution** and **Warning** notices. They are indicators of important safety information. Keep this manual for future reference.

IMPORTANT INFORMATION

This unit is intended to be used in a commercial application. That includes schools and cafeterias.

If installed in a residence some commercial service companies may not be able to service it on site.

The manufacturer has designed and produced this machine with the finest in materials. The manufacturer assumes no liability for units that have been altered in any way. Alterations or part substitutions will void the warranty.

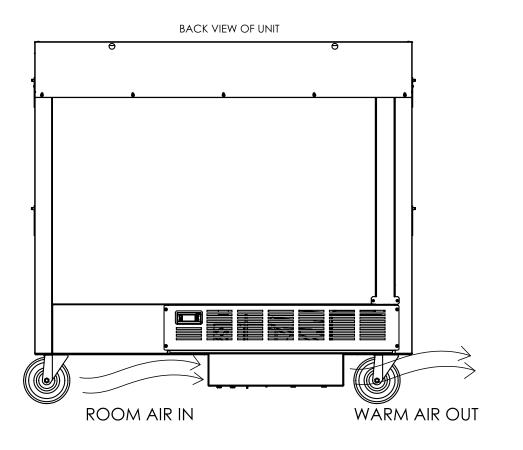
Limitations

The machine is designed for use indoors in a controlled environment. It must be kept dry, not overheated or subjected to excessive cold. May only be connected to a dedicated electrical circuit. Extension cords are not permitted.

	Minimum	Maximum
Voltage	104	127
Room Air Temp	60° F	100° F

Victory

Air Flow



Agency Approvals

These marks appear on the dataplate or serial tag, located in the inside of the left wall. The dataplate also contains the model and serial numbers as well as electrical requirements.

PRODUCT INFORMATION

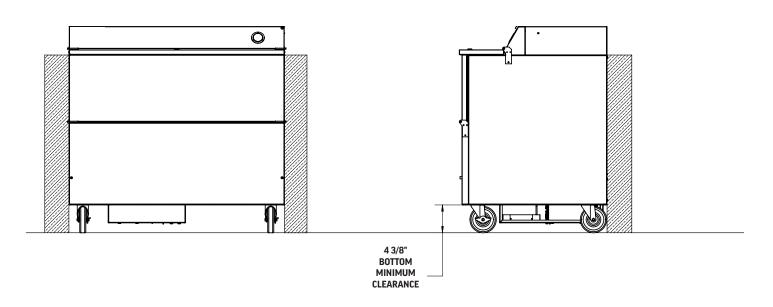
Model	Cabinet Dimensions w x d x h (Inches)	Glass or Solid Door	Full Load Amps	Power Cord Plug (NEMA)	Refrigerant Type / Charge g / Charge oz
VMCF34HC-1-S-HC	34 x 34 1/2 x 46 7/8	Solid	1.87		R-290 / 85 / 3.0
VMCF49HC-1-S-HC	49 x 34 1/2 x 46 7/8	Solid			
VMCF58HC-1-S-HC	58 x 34 1/2 x 46 7/8	Solid	2.46	5-15P	R-290 / 70 / 2.47
VMCFD49HC-1-S-HC	49 x 35 7/8 x 47 5/8	Solid	2.40		K-290/70/2.47
VMCFD58HC-1-S-HC	58 x 35 3/4 x 47 5/8	Solid			

Height includes casters

- All models will maintain product temperature between 35.5 and 40.5 degrees F. at the factory setting of 38.°F.
- All models are 115 volts, 60 Hz AC.
- ALWAYS REFERENCE YOUR EQUIPMENT DATA PLATE AMPS, REFRIGERANT AND REFRIGERANT CHARGE FOR THE MOST UP TO DATE AND ACCURATE VALUES.
- There are no access valves on the refrigeration system.

CLEARANCE AND PLACEMENT

0 INCHES MINIMUM CLEARANCE AT SIDES AND BACK



Placement

Consider the following when selecting a location for your Refrigerator:

Clearance:

- 0" Left
- 0" Right
- 0" Rear
- 4 3/8" Below

Floor Load: the floor on which the Refrigerator is located must be even and level, free from vibrations, and strong enough to support the combined weights of the unit and maximum product load.

Ventilation: Area at front must be free and clear of any object or wall.

Power Outlet: The installation of this appliance requires a dedicated power outlet located within the length of the unit's power cord and be accessible for the purpose to disconnect power.

UNPACKING AND SET UP

Carefully inspect the shipping carton for damage. This is the only time that shipping damage may be claimed. If damage is suspected, open the carton immediately and, if there is damage, retain the carton and contact the shipper to make a claim. Do NOT contact the manufacturer.

Uncrating

Tools Needed: ¾" box wrench, adjustable wrench, level, flat head screw driver, and box cutter.

- 1. First, remove the cardboard top capping, all clear tape, and all staples including those at the bottom of the cardboard carton and skid.
- 2. Next, start from the top of the carton. Using the box cutter, carefully make one continuous cut to the bottom of the skid. Remove cardboard carton and discard.
- 3. Then, move unit as close to final position as possible before removing the skid.
- 4. Remove the brackets securing the unit to the skid.

Note: The skid must be removed before the casters or legs can be attached.

Do NOT tip unit on its front or sides. If tipped onto the back, unit must not be started for 3 hours.

Leveling:

Cabinet must be installed on a level surface. Failure to install on a level surface may result in the door not sealing or not remaining in position correctly, or condensed water not draining properly.

Install or attach any accessories that will be used Remove any plastic covering the stainless steel.



Do NOT loosen casters to level the cabinet. Casters MUST be tightly secured to cabinet for full strength.

ELECTRICAL

This is a cord-connected unit, and must be connected to its own **dedicated** power supply. Check the dataplate on the machine to confirm the voltage and per the dataplate use the correct fuses or HACR circuit breakers.

Note: Do not connect to GFI / GFCI outlets. Connection to that type of outlet can result in product loss due to unsafe cabinet temperature when GFI device trips from moisture.

Power Cord

This 115 volt model is equipped with a cord and 5-15P plug.

If the power cord becomes damaged, it must be replaced with the identical cord.

Follow All National and Local Codes

This Unit Must Be Grounded. Do not use extension cords and do not disable or by-pass ground prong on electrical plug.

Initial Start Up

Plug the power cord into the proper power supply.

The cabinet will soon begin to blow warm air out of the bottom area, and the inside wall of the cabinet will begin to become cold.

The cabinet temperature has been set at the factory and should not need adjustment, however if it was changed, the standard setting is 38° F.

Cautions



Care must be taken whenever moving or servicing the unit. The refrigerant is contained in a sealed system, but if released it may be flammable.

USING THE UNIT WITH A DANFOSS CONTROLLER

Operation is simple, just keep it connected to the correct power supply and the refrigerator will maintain the internal temperature it has been set to. Keep the door closed as much as possible to avoid unnecessary run time.

The controller displays the current internal temperature.

Adjusting the set temperature lower will NOT cause the system to lower the temperature faster. When on, the refrigeration system is always operating at maximum.

For best results, make certain the unit remains powered and has achieved the desired set point before loading it with product. Pull down time will vary depending upon the type of unit and ambient conditions. Freshly cooked product, or otherwise warm product placed into the appliance will also increase the pull down time significantly since this model is designed for storage and not for rapid pull down. The temperature was set at the factory at 38° F, but you can adjust it to your own selected temperature. 30 seconds after adjustment, the display automatically reverts to showing the current temperature.

The refrigerator will automatically defrost as needed, there is no set time for defrost.

Note: Holding the defrost button in too long will shut the controller off.

The pans must be kept in place for proper temperature control.

The internal fan will be on all the time.

The compressor and condenser fan motor will only be on when the controller senses an increase in internal cabinet temperature passed the set point.



In most cases the only thing displayed will be the cabinet temperature. When something other than normal operation has occurred, a message will be shown.

Message Displayed	Why	What to do
Hi	Cabinet temperature too warm	Confirm doors or drawers are closed.
dOr	Door is open	Close door, if message does not change, call for service.
LEA	Compressor run time too long	Check doors or drawers closed. If yes, call for service.
E01, E02, E03, E04	Sensor unplugged or has failed	Call for service.

SEQUENCE OF OPERATIONS REFRIGERATOR

The refrigerator operates based on the air temperature measured by the probe located at the return air.

	ON		OF	OFF	
COMPONENT	OPERATION	CONTROLLER ACTION	OPERATION	CONTROLLER ACTION	
COMPRESSOR	Compressor turns on when the air temperature at the	The Compressor Contact is energized	Compressor turns off when the air temperature at probe is	The Compressor Contact is de- energized	
	probe is above the sum of the set point +2	(ERC 112 – Terminal #1)	equal to or less than the set point -2	(ERC 112 – Terminal #1)	
CONDENSER FAN	The Condenser Fan turns on when the Compressor is running	The Condenser Fan is wired directly to the Compressor, not through the controller	The Condenser Fan turns off when the Compressor is not running	The Condenser Fan is wired directly to the Compressor, not through the controller	
EVAPORATOR FAN	The Evaporator Fan runs continuously in refrigerators. When the unit is plugged in, the Evaporator Fan will run.	The Evaporator Fan is connected directly to incoming power, not through the controller.	The Evaporator Fan runs continuously. When the unit is plugged in, The Evaporator Fan will run.	The Evaporator Fan is connected directly to incoming power, not through the controller.	

Condition	Compressor	Condenser Fan	Evaporator Fan
Cabinet Temp > Set point + 2	ON	ON	ON
Cabinet Temperature <= Set point - 2	OFF	OFF	ON
Defrost	OFF	OFF	ON

Electronic Controller



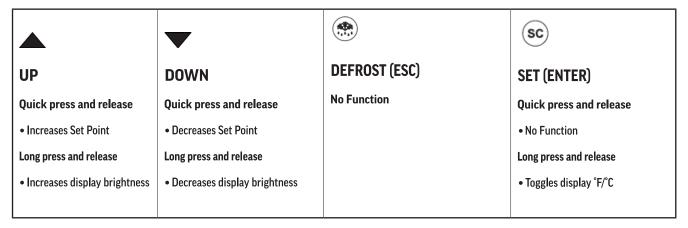
Control Panel Display

Note: Defrost is automatic, LED indicator is inoperative.

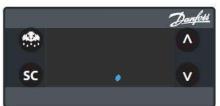
a1¥16	Defrost LED												
shit he	On fixed:	Defrost active		On fixed:	ALARM Present								
	Off:	Defrost is off		Flashing:	ALARM Silenced								
				Off:	No Alarm								
	Fan LED		Fan LED		Fan LED		Fan LED		Fan LED			Compressor LED	
	On fixed:	Fan active	y.t.k	On fixed: Compressor active									
	Off:	Fan Off	₩ T FF	Flashing:	Delay, protection or activation blocked								
				Off:	No Alarm								

NOTE: When switched on, the instrument panel performs a lamp test for a few seconds.

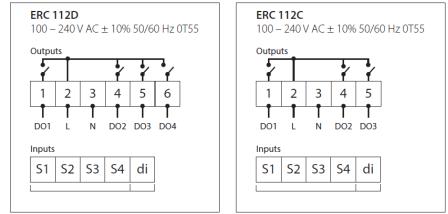
Keyboard Functions



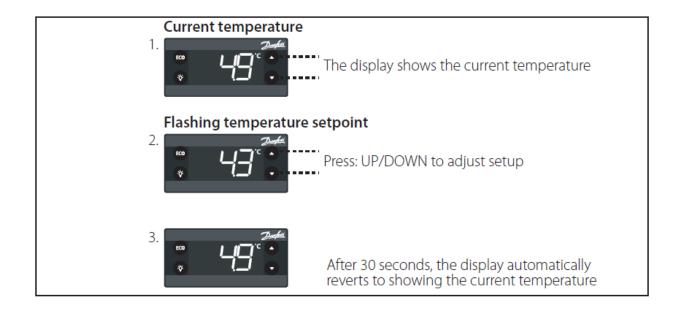
Note: When the controller is in a Standby Mode, a blue dot will be displayed as shown here. To switch out of Standby Mode, push and hold the Defrost button until the display reads ON.



CONTROL PANEL CONNECTIONS



Changing the Set point



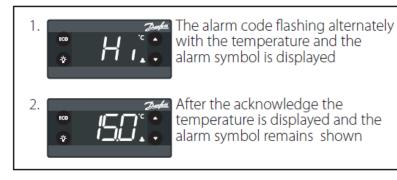
The alarm condition is always signaled by the alarm icon 🐥 .

Press any button to silence the alarm, the relative icon will continue flashing.

Alarm Code	Trigger	Automatic Clearance	Outputs	Comments
"Hi"	Air temperature is higher than "ALA->Hat• for "ALA->Htd"	User configured		High temperature alarm
"Lo"	Air temperature is lower than "LAt" for "Ltd"	User configured	Blink "Lo" with the lowest temperature. If configured: cut in alarm relay, beep the buzzer	Low temperature alarm
"Con"	Condenser temperature is too high or too low	User configured	Blink "Con". If configured: cut in alarm relay, beep the buzzer	Condenser alarm
"dor"	Door open for more than	Always	Blink "dor". If configured: cut in alarm relay, beep the buzzer	Door open alarm
"uHi"	Line voltage is higher than "Cop- >uHi"	Always	Blink "uHi". If configured: cut in alarm relay, beep the buzzer	High voltage alarm
"uLi"	Line voltage is higher than "Cop- >uLi"	Always	Blink "uLo". If configured: cut in alarm relay, beep the buzzer.	Low voltage alarm
"LEA"	Compressor continuous running for more than "ALA->LEA"	Always	Blink "LEA". If configured: cut in alarm relay, beep the buzzer	Leakage alarm
"E01"	"S1" error	Always	Blink "EOI ". If configured: cut in alarm relay, beep the buzzer	"S1" sensor failure (short or open)
"E02"	"S1" error	Always	Blink "EO2". If configured: cut in alarm relay, beep the buzzer	"S2" sensor failure (short or open)
"E03"	"S1" error	Always	Blink "EO3 ". If configured: cut in alarm relay, beep the buzzer	"S3" sensor failure (short or open)
"E04"	"S1" error	Always	Blink "EO4 ". If configured: cut in alarm relay, beep the buzzer	"S4" sensor failure (short or open)

How to Acknowledge Alarms:

NOTE: If alarm exclusion times are in progress (ALA folder of the parameter table), the alarm is not signaled.



Press any button to acknowlege

USING THE UNIT WITH AN ELIWELL CONTROLLER

Operation is simple, just keep it connected to the correct power supply and the refrigerator will maintain the internal temperature it has been set to. Keep the doors and / or drawers closed as much as possible to avoid unnecessary run time.

The controller displays the current internal temperature.

Adjusting the set temperature lower will NOT cause the system to lower the temperature faster. When on, the refrigeration system is always operating at maximum.

The temperature was set at the factory at 35° F, but you can adjust it to your own selected temperature. 30 seconds after adjustment, the display automatically reverts to showing the current temperature.

The refrigerator will automatically defrost as needed, there is no set time for defrost.

The internal fan will be on when the unit is plugged in.

The compressor and condenser fan motor will only be on when the controller senses an increase in internal cabinet temperature passed the set point.



In most cases the only thing displayed will be the cabinet temperature. When something other than normal operation has occurred, a message will be shown.

Message Displayed	Why	What to do
AH1	Cabinet temperature too warm	Confirm doors or drawers are closed.
OPd		Close door, if message does not change, call for service.
E1, E2, E3, E4	Sensor unplugged or has failed	Call for service.

SEQUENCE OF OPERATIONS REFRIGERATOR

The refrigerator operates based on the air temperature measured by the probe located at the return air.

	ON		OFF		
COMPONENT	OPERATION	CONTROLLER ACTION	OPERATION	CONTROLLER ACTION	
	Compressor turns on when the air	The Compressor Contact is energized	Compressor turns off when the air	The Compressor Contact is de-energized	
COMPRESSOR	temperature at the probe is above the sum of the set point + 4	(EW+978 - Terminal #1)	temperature at probe is equal to or less than the set point	(EW+978 - Terminal #1)	
CONDENSER FAN	The Condenser Fan turns on when the Compressor is running	The Condenser Fan is wired directly to the Compressor, not through the controller	The Condenser Fan turns off when the Compressor is not running	The Condenser Fan is wired directly to the Compressor, not through the controller	
		The Evaporator Fan is wired to constant power	The Evaporator Fan turns off when the	The Evaporator Fan is wired to constant power	
EVAP FAN	The Evaporator Fan turns on when the unit is powered on.	Some models will be wired to the fan relay (EW+978 - Terminal #3)	unit is unplugged or put into standby.	Some models will be wired to the fan relay (EW+978 - Terminal #3)	

Condition		Condenser Fan	Evaporator Fan
Cabinet Temp > Set point + 4		ON	ON
Cabinet Temperature <= Set point -4		OFF	ON
Defrost	OFF	OFF	ON



Controller Symbols

	Reduced SET / Economy Permanently on: Energy Saving Mode Flashing: Reduced Set Mode Quick Flashing: Access to level 2 parameters	AUX	AUX Permanently on: Aux Active Flashing: Deep Cooling Cycle Active
₩	Compressor Permanently On: Compressor Active Flashing: Delay, protection or blocked start-up		Defrost Permanently on: Defrost Active Flashing: D.I. activation (Defrost is automatic, LED indicator is inoperative)
(((=1))	Alarm Permanently on: Alarm Active Flashing: Alarm Acknowledged	×	Fan Permanently on: Fans Active
°C	Celsius Permanently On: °C Setting	°	Fahrenheit Permanently on: °F Setting

Controller Buttons

Up Press and release • Scrolls through menu items • Increases Values Press for at least 5 seconds • No Function		Stand-by Press and release • Returns to the previous menu level • Confirm parameter value Press for at least 5 seconds • Activates the stand-by function
Down Press and release • Scrolls through menu items • Decreases values Press for at least 5 seconds • No Function	set	Set (Enter) Press and release • Displays alarms • Opens the machine status menu Press for at least 5 seconds • Opens the programming menu • Confirms commands

Electronic Controller Alarms

Alarms are always indicated by the buzzer (if present) and the alarm icon. To switch off the buzzer, press and release any key, the relative icon will continue to flash.

NOTE: If alarm exclusion times have been set (see **AL** folder in the parameters table), the alarm will not be signaled.

Alarm Code	Trigger	Automatic Clearance	Outputs	Comments
"AH1"	Pb1 probe HIGH Temperature alarm	User configured		High temperature alarm
"AL1"	Pb1 probe LOW Temperature alarm	User		Low temperature alarm
"OPd"	Door open for more than	Always	Label OPd displayed alternately with the actual value read by probe Pb1	Door open alarm
"E1"	"E1" error		Blink "E1 ". If configured: cut in alarm relay, beep the buzzer	"PB1" sensor failure (short or open)
"E2"	"E2" error		Blink "E2". If configured: cut in alarm relay, beep the buzzer	"PB2" sensor failure (short or open)
"E3"	"E3" error		Blink "E3 ". If configured: cut in alarm relay, beep the buzzer	"PB3" sensor failure (short or open)
"E4"	"E4" error		Blink "E4 ". If configured: cut in alarm relay, beep the buzzer	"PB4" sensor failure (short or open)

Cleaning Schedule:

Daily wipe down

Condenser coil Quarterly cleaning **Gaskets**Daily inspection

Routine maintenance Annually

Victory

Weekly interior

Daily Exterior Cleaning

It is much easier to clean on a regular basis than to have to remove stains once they have built up.

- 1. Wash with a clean sponge and a mild detergent that does not contain chlorine.
- 4. Polish with a soft cloth, wiping with the grain.
- 5. Wipe weekly with stainless steel cleaner.

- 2. Rinse with clean water.
- 3. Dry with a soft cloth.

Weekly Interior Cleaning

- 1. Remove all food, food related items. Store the food at a safe temperature.
- 2. Disconnect power to the unit (unplug it or switch the breaker off).
- 3. Remove all loose food particles from the inside walls, floor, door liner and ceiling.
- 4. Scrub all interior surfaces and door gaskets with a

warm (100°F to 110°F) detergent solution and a soft scrub brush.

- 5. Rinse with clean water and allow to air dry.
- 6. Restore power.
- 7. Return food to the unit when it has reached a safe temperature.

CONDENSER CLEANING

Keeping the condenser coil clean is critical to efficient operation.

1. Unplug unit from power supply.



Rotating fan blade can cause personal injury.

Unplug unit from power supply before beginning to clean condenser

- 2. Remove the Phillips head screws on the left and right of the rear panel
- 3. Pull the panel away from the unit.
- 4. Brush off the surface of the condenser fins. Do NOT bend the fins.
- 5. Vacuum the surface of the condenser fins.
- 6. To reinstall the rear panel line up the screw holes and reinstall the Philips head screws.

Note: If the coil is greasy, the coil will need to be cleaned with coil cleaner and that should be left to an experienced technician.

Note: Air filters are not recommended as they restrict the flow of cooling air.





METHODS FOR CLEANING STAINLESS STEEL

Cleaning Needed	Cleaning Agent	Method of Application	Affect on Finish
Smears and fingerprints	Areal 20, Lac-O-Nu, Lumin Wash O'Cedar Cream Polish, Stainless Shine.	Rub with cloth as directed on the package.	Satisfactory for use on all finishes. Provides barrier film to minimize prints.
	Allchem Concentrated Cleaner.	Apply with damp sponge or cloth. Rub with damp cloth.	
	Samae, Twinkle or Cameo Copper Cleaner	Rub with damp cloth.	
	Grade FFF Italian pumice, whiting, or talc.	Rub with dry cloth.	
Stubborn Spots and Stains, Baked-On Splatter, and Other Light Discolorations	Liquid NuSteel Paste NuSteel or DuBois Temp. Copper's Stainless Steel Cleaner Revere Stainless Cleaner Household cleansers, such as Old Dutch, Lighthouse, Sunbrite, Wyandotte, Bab-O, Gold Dust, Sapolio, Bon Ami, Ajax, or Comet Grade F Italian Pumice, Steel Bright, Lumin Cleaner, Zud, Restore, Sta-Clean, or Highlite. Penny-Brite or Copper-Brite.	Use small amount of cleaner. Rub with dry cloth using a small amount of cleaner. Apply with damp sponge or cloth. Rub with a damp cloth. May contain chlorine bleaches. Rinse thoroughly after use. Rub with a damp cloth. Rub with a dry cloth using a small amount of cleaner.	Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and Nos. 7 and 8 (polished) finishes.
Heat tint or discoloration	Penny-Brite or Copper-Brite. Past NuSteel, DuBois Temp, or Tarnite. Revere Stainless Steel Cleaner. Allen Polish, Steel Bright, Tenacious Deposits, Rusty Discolorations, Industrial Atmospheric Stains Wyandotte, Bab-O or Zud.	Rub with a dry cloth. Rub with a dry cloth or stain- less steel wool. Apply with damp sponge or cloth. Rub with a damp cloth.	
Burnt-On Foods and Grease Fatty Acids, Milkstone (where swabbing or rubbing is not practical)	Easy-Off, De-Grease-It, 4 to 6% hot solution of such agents as trisodium phosphate or sodium tripolyphosphate or 5 to 15% caustic soda solution	Apply generous coating. Allow to stand for 10-15 minutes. Rinse. Repeated application may be necessary.	Excellent removal, satisfactory for use on all finishes.
Tenacious Deposits, Rusty Discolorations, Industrial Atmospheric Stains	Oakite No. 33, Dilac Texo 12, Texo NY, Flash-Klenz, Caddy Cleaner, Turco Scale 4368 or Permag 57.	Swab and soak with clean cloth. Let stand 15 minutes or more according to directions on package, then rinse and dry.	Satisfactory for use on all finishes
Hard Water Spots and Scale	Vinegar. 5% oxalic acid, 5% sulfamic acid, 5 to 10% phosphoric acid, or Dilac, Oakite No. 33, Texo 12, Texo N.Y.	Swab or wipe with cloth. Rinse with water and dry. Swab or soak with cloth. Let stand 10-15 minutes. Always follow with neutralizer rinse, and dry.	Satisfactory for all finishes. Satisfactory for all finishes. Effective on tenacious deposits or where scale has built up.

HELP

Trouble Diagnosis for the User		
Malfunction	Possible Cause	Likely Solution
No cooling - unit is silent	Unit not plugged in. Fuse or circuit breaker tripped. Power cord plug loose in outlet.	Connect to proper voltage circuit Replace fuse or reset breaker. Check outlet for loose connection, replace as needed
Unit cools but seems to be on all the time	Dirty condenser	Clean condenser
Space temperature too high	Dirty condenser Evaporator iced over Unit in high temperature environment	Clean condenser Defrost unit Reduce temperature of room
Space temperature too low	Temperature control	Adjust or replace control
Trouble Diagnosis for the Technician No cooling - compressor does not hum	Temp control stuck in open position	Replace temp control.
No cooling - compressor hums but does not start	Low voltage to unit. Compressor starting system failure	Check voltage, correct as needed. Check start relay and start capacitor. See next step.
No cooling - compressor starts but shuts off	Compressor start relay failure Compressor start capacitor failure	Replace relay. Replace capacitor.
No cooling - compressor cycles on and off	Overheating weak overload	Clean condenser, check fan motor and blade. Check refrigerant charge. Replace overload.
Unit cools but turns on and off frequently	No product in cabinet. Temperature control defective Refrigeration issue	Fill cabinet Replace control Have system checked
Makes excessive noise	Tubing rattle Loose parts Bent or broken fan blade Noisy fan motor	Check tubing for routing Check for loose components Replace fan blade Replace fan motor

FOR THE SERVICE TECH - R290

Refrigeration service should only be attempted by a trained trade professional certified to work on R290 systems.

Here are some critical service items.

This list does not qualify anyone to service the unit. It is a reminder and checklist for the service tech. Keep these in mind for **R290 service**:

- Wire nuts are NOT to be used when changing an electrical part.
- The switches in this product are sealed, **only exact replacements** may be used.
- The process tubes are to be used for service access.
- Cut out (with tubing cutter) refrigeration components that are to be replaced. Do NOT un-braze.
- Because R290 can be vented into the air during service, the venting MUST be in an area free from flame or spark. It must also be in a well ventilated area, with a nearby open window or door.
- A sign noting service of a system containing propane must be attached to the unit during refrigeration service.
- A combustible gas leak detector must be used to inform anyone in the area when propane is present in the air.

Other Information:

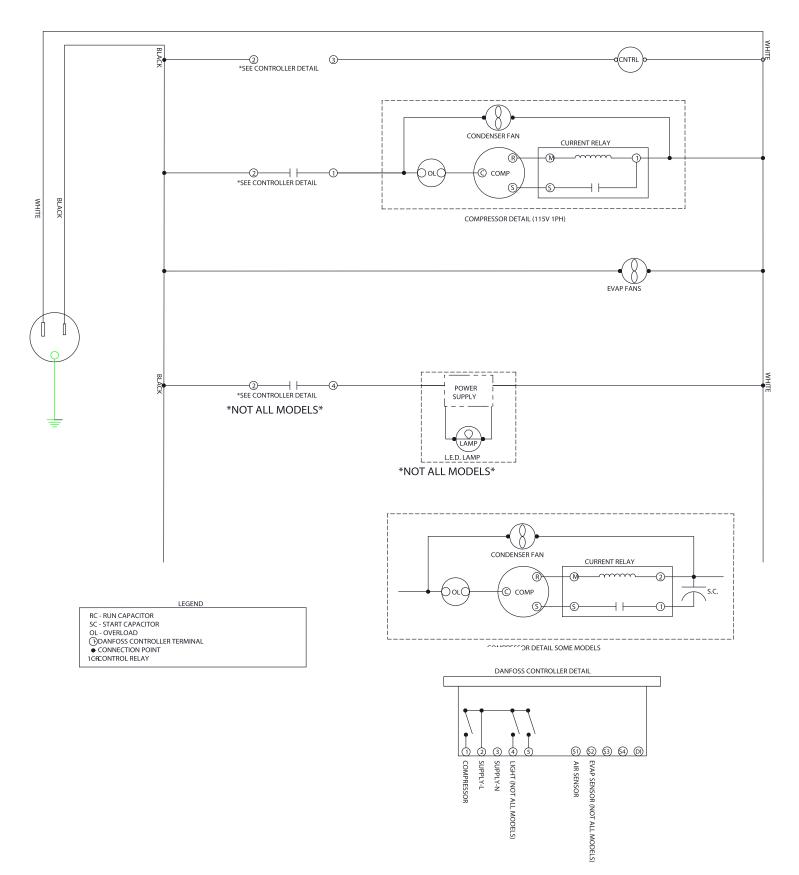
Evacuation: It is critical that a refrigeration system be leak free and internally dry. A thorough evacuation with a good vacuum pump with a micron gauge attached is the only way to ensure that the system is dry and ready for a charge of refrigerant.

Charging: The system is critically charged and the proper type and amount MUST be weighed in.

Overcharge symptoms: Unit will cool properly but the suction line temperature will be unusually cold. Compressor run time will be longer than normal.

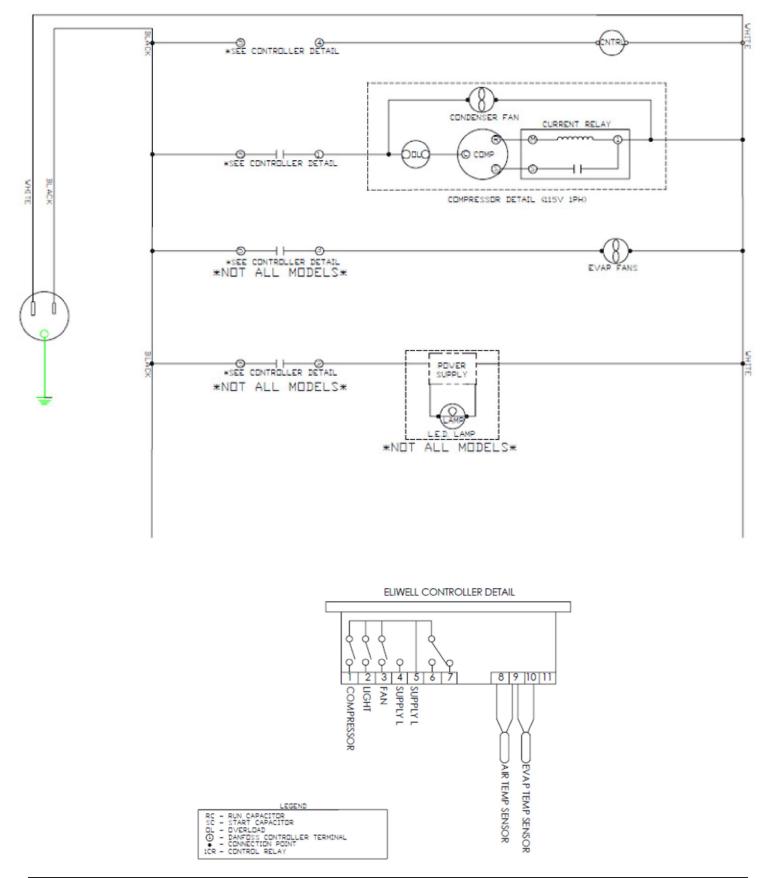
Undercharge symptoms: Long run time, poor cooling and a hot compressor dome are the main symptoms of an undercharge.

FOR THE SERVICE TECH - WIRING DIAGRAM DANFOSS



Victory

FOR THE SERVICE TECH - WIRING DIAGRAM ELIWELL



LIMITED WARRANTY

Warranty (Continental USA & Canada Only)

SIX (6) YEAR PARTS & LABOR LIMITED WARRANTY

Victory[®] Refrigeration (Victory) warrants to the original purchaser of Victory branded equipment, that such equipment is free from defects in material and workmanship, under normal use, proper maintenance and service as indicated by Victory's installation and operation instructions, for a period of six (6) years from the date of installation, or seventy-five (75) months from the date of shipment from the manufacturer, whichever is earlier.

SEVEN (7) YEAR COMPRESSOR PART LIMITED WARRANTY*

In addition to the warranty set forth above Victory[®] Refrigeration (Victory), warrants the hermetically/ semi-hermetically sealed compressor (part only) for an additional year (1) years beyond the initial six (6)year warranty period; not to exceed eighty-seven (87) months from the date of shipment from Victory, provided upon receipt of the compressor, manufacturer examination shows the sealed compressor to be defective. This extended warranty does not cover freight for the replacement compressor or freight for return of the failed compressor. Also, this extended compressor-part only warranty does NOT apply to any electrical controls, condenser, evaporator, fan motors, overload switch, starting relay, capacitors, temperature control, filter/drier, accumulator, refrigeration tubing, wiring harness, labor charges, or supplies which are covered by the standard warranty above.

*Units shipped after 09/1/2023. Previous warranty applies to units shipped prior.

Exceptions:

• Warranty does not apply for units installed in a Residential application. Units are intended for Commercial use only.

• Blast Chillers carry a 3 year parts and labor warranty; 2 additional years for the compressor

Normal wear type parts, such as light bulbs/lamps, gaskets, fuses, batteries, blast chiller/freeze probes, thermostat or electronic controller calibration and/ or adjustment, and any normal maintenance items as outlined in the Owner's Manual, adjustment of door mechanisms or freight damage are not covered by this warranty. For the purpose of this warranty, the original purchaser shall be deemed to mean the individual or company for whom the product was originally installed.

Proof of purchase must be supplied to Victory to validate the warranty. This warranty is valid only if equipment is properly installed, and started-up as outlined in the Owner's Manual.

Units that utilize variable speed compressor technology can experience nuisance tripping on Class A GFCI outlets which have a trip limit of 4 mA to 6 mA. To avoid this issue in a location that requires GFCI circuit protection, Beverage Air & Victory recommends using a HUBBELL Model Number GFRST83W 20A Heavy Duty Hospital Grade Self-Test GFCI Receptacle.

Removal or alteration of the serial/ data plate from equipment shall be deemed to release Victory from all warranty obligations or any other obligations, expressed or implied . The warranty does not cover installation, start-up, normal maintenance, food loss, or other consequential damage, and it excludes components that are removable without tools. Our obligation under this warranty shall be limited to repairing or replacing, including labor, any part of such product, which proves defective.

Victory reserves the right to examine any product claimed to be defective. The labor warranty shall be for self-contained units only and for standard straight time, which is defined as normal service rate time, for service performed during normal working hours. Any service requested outside of a servicer's normal working hours will be covered under this warranty at the normal rate and any additional overtime rate will be the responsibility of the equipment purchaser. Victory shall not be responsible for any costs incurred if the work is performed by other than Victory's authorized service personnel. Reimbursement claims for parts and/or labor service costs must be made in writing. Model, cabinet serial number and installation location must be shown on the claim. A receipted bill from the servicing agency must accompany the claim, together with full details of the service problems, diagnosis and work performed. Victory reserves sole discretion whether further documentation on a claim is to be submitted. Any part determined to be

LIMITED WARRANTY (CONTINUED)

defective in the product should be returned to the company within thirty (30) days under the terms of this warranty and must be accompanied by a record of the cabinet model, serial number, with a return material authorization number (RMA#) issued by Victory.

Special installation/applications, including remote locations, are limited in coverage by this warranty. Any installation that requires extra work, and/ or travel, to gain access to the unit for service is the sole responsibility of the equipment purchaser. Improper operation resulting from factors, including but not limited to, improper or negligent cleaning and maintenance, low voltage conditions, inadequate wiring, outdoor use and accidental damage are not manufacturing defects and are strictly the responsibility of the purchaser.

With the exception of Blast Chillers product is designed for maintaining temperature and not bringing food to a desired temperature therefore cannot be held responsible of this function under warranty.

Units must be in conditioned environments or warranty will be void.

Condenser coils must be cleaned at regular intervals. Failure to do so can cause compressor malfunction and will void warranty. Although cleaning requirements vary in accordance with the operation of various products, Victory recommends a minimum monthly cleaning.

NOTE: NO CLAIMS CAN BE MADE AGAINST THESE WARRANTIES FOR SPOILAGE OF PRODUCTS, LOSS OF SALES OR CONSEQUENTIAL DAMAGES. THE FOREGOING WARRANTIES ARE EXPRESSLY GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED, OR STATUTORY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED, AND ALL OTHER OBLIGATIONS OR LIABILITIES ON OUR PART, AND WE NEITHER ASSUME, NOR AUTHORIZE ANY OTHER PERSON TO ASSUME FOR US, ANY OBLIGATION OR LIABILITY IN CONNECTION WITH THE SALE OF SAID REFRIGERATION UNITS OR ANY PARTS THEREOF. These warranties shall not be assignable and shall be honored only in so far as the original purchaser.

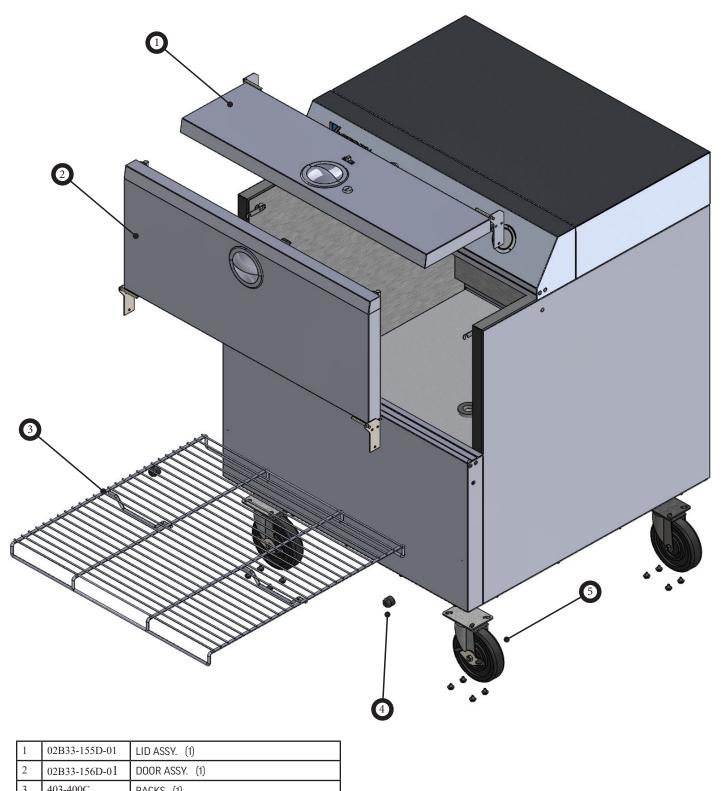
These warranties do not apply outside the limits of the USA and Canada, nor do they apply to any part that has been subject to misuse, neglect, alteration, accident, or to any damage caused by transportation, flood, fire, acts of terrorism, or acts of God.

LIMITATION OF LIABILITY:

Victory or its affiliates shall not be liable for any indirect, incidental, special or consequential damages, or losses of a commercial nature arising out of malfunctioning equipment or its parts or components thereof, as a result of defects in material or workmanship. In no event shall Victory be liable for a sum in excess of the purchase price of the item.

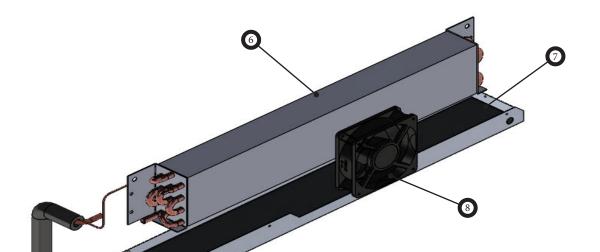
THE ORIGINAL OWNER'S SOLE AND EXCLUSIVE REMEDY AND VICTORY'S SOLE AND EXCLUSIVE LIABILITY SHALL BE LIMITED TO THE REPAIR OR REPLACEMENT OF PARTS OR COMPONENTS CONTAINED IN THE EQUIPMENT IDENTIFIED ABOVE WHICH UNDER NORMAL USE AND SERVICE MALFUNCTION AS A RESULT OF DEFECTS IN MATERIAL OR WORKMANSHIP, SUBJECT TO THE APPLICABLE PROVISIONS AND LIMITATIONS STATED ABOVE. 08/2023

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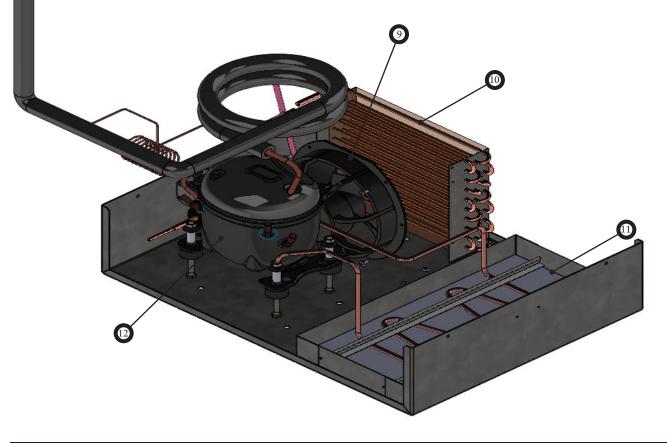


3	403-400C	RACKS (1)
4	703-161A	BUMPERS (2) SOLD INDIVIDUALLY
5	00C31-102D	CASTER KIT - 4 CASTERS AND SCREWS (1)

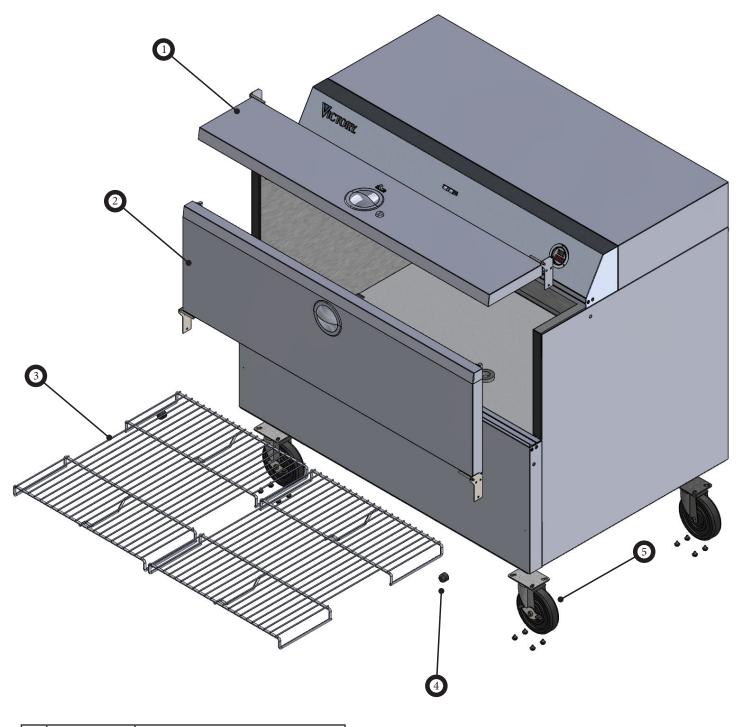
Victory



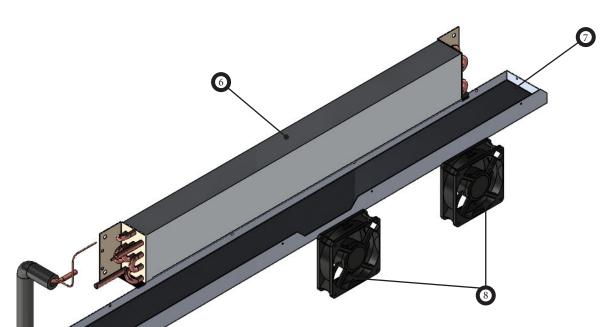
6	305-492D	EVAP COIL (1)
7	04B31-074D-02	DRAIN PAN (1)
8	501-184D	EVAP FAN (1)
9	501-186D-02	CONDENSOR FAN (1)
10	305-469D	CONDENSOR COIL (1)
11	706-237D	CONDENSATE PAN (1)
12	312-198D	COMPRESSOR (1)



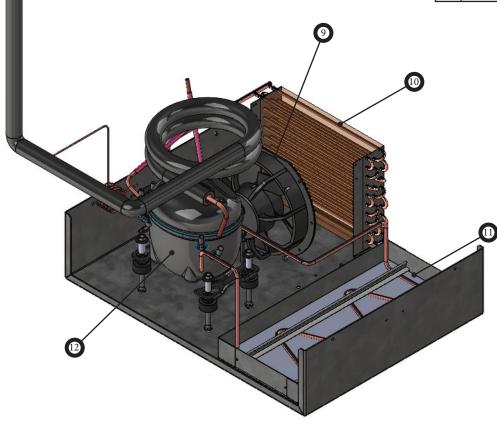
VMCF49HC



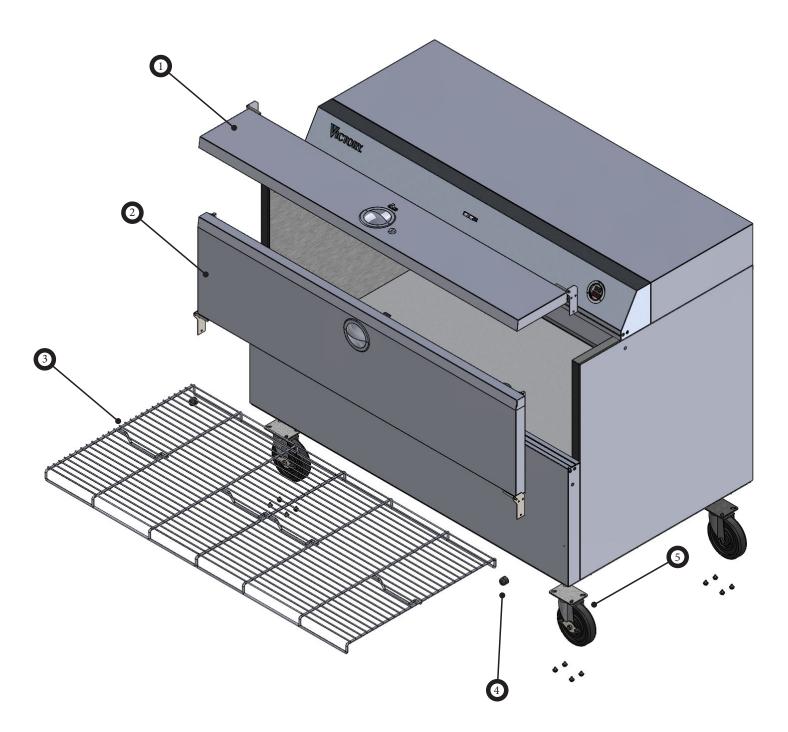
1	02B33-146D-01	LID ASSY. (1)
2	02B33-147D-01	DOOR ASSY. (1)
3	403-401C	RACKS (2) SOLD INDIVIDUALLY
4	703-161A	BUMPERS (2) SOLD INDIVIDUALLY
5	00C31-102D	CASTER KIT - 4 CASTERS AND SCREWS (1)



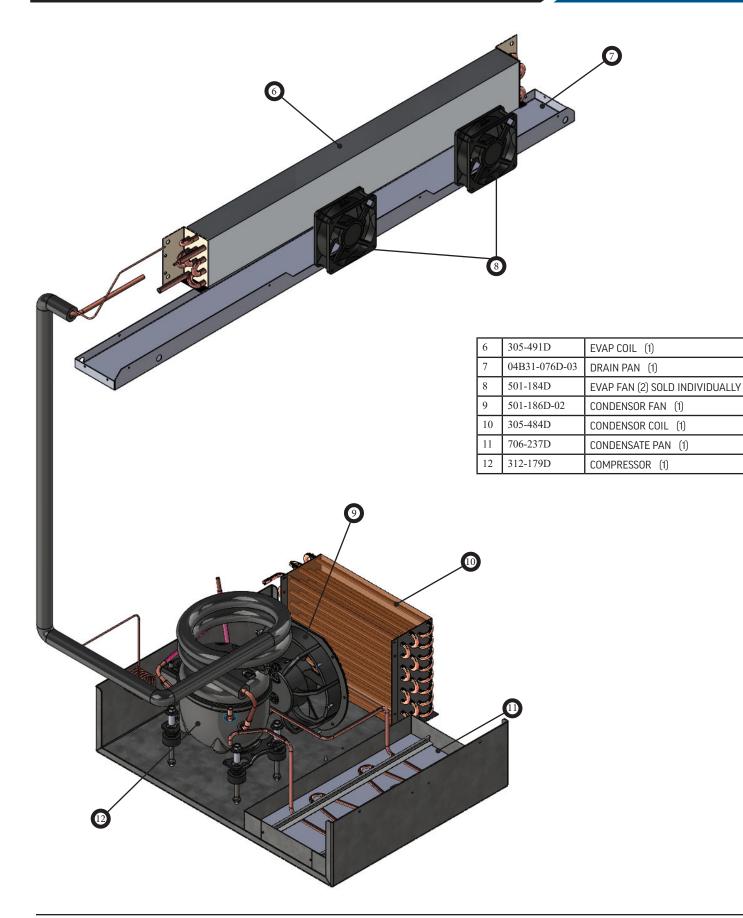
6	305-491D	EVAP COIL (1)	
7	04B02-381D-01	DRAIN PAN (1)	
8	501-184D	EVAP FAN (2) SOLD INDIVIDUALLY	
9	501-186D-02	CONDENSOR FAN (1)	
10	305-484D	CONDENSOR COIL (1)	
11	706-237D	CONDENSATE PAN (1)	
12	312-179D	COMPRESSOR (1)	



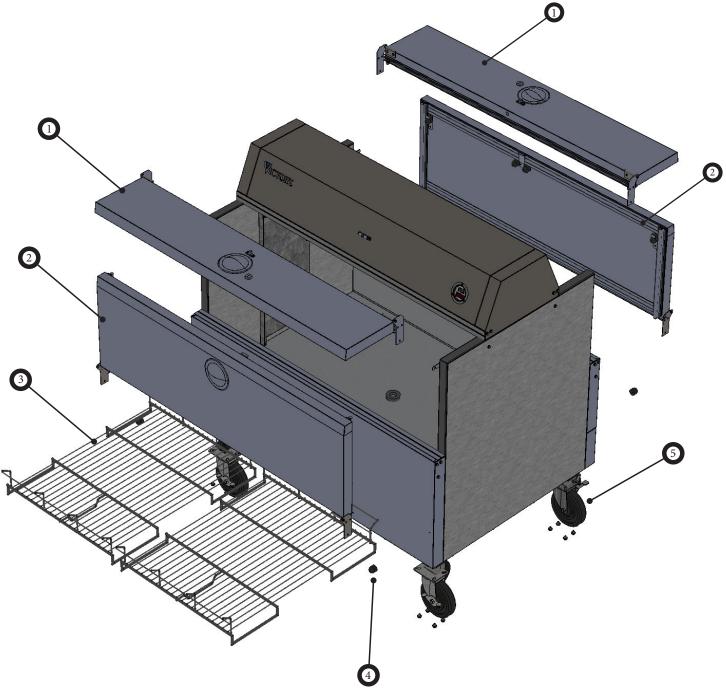
VMCF58HC



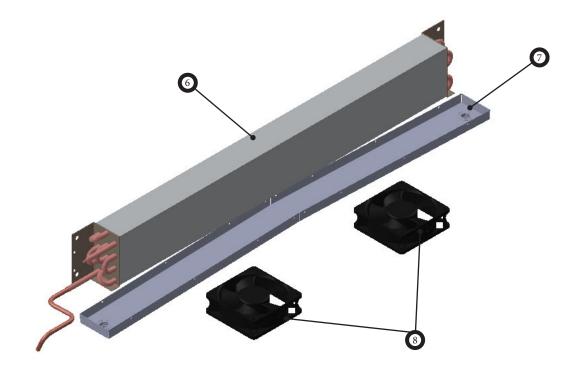
1	02B33-149D-01	LID ASSY. (1)
2	02B33-150D-01	DOOR ASSY. (1)
3	403-400C	RACKS (2) SOLD INDIVIDUALLY
4	703-161A	BUMPERS (2) SOLD INDIVIDUALLY
5	00C31-102D	CASTER KIT - 4 CASTERS AND SCREWS (1)



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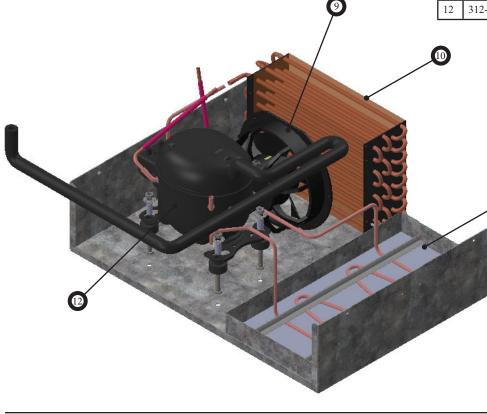


1	02B33-146D-01	LID ASSY. (2) SOLD INDIVIDUALLY
2	02B33-147D-01	DOOR ASSY. (2) SOLD INDIVIDUALLY
3	403-401C	RACKS (2) SOLD INDIVIDUALLY
4	703-161A	BUMPERS (4) SOLD INDIVIDUALLY
5	00C31-103D	CASTER KIT - 4 CASTERS AND SCREWS (1)

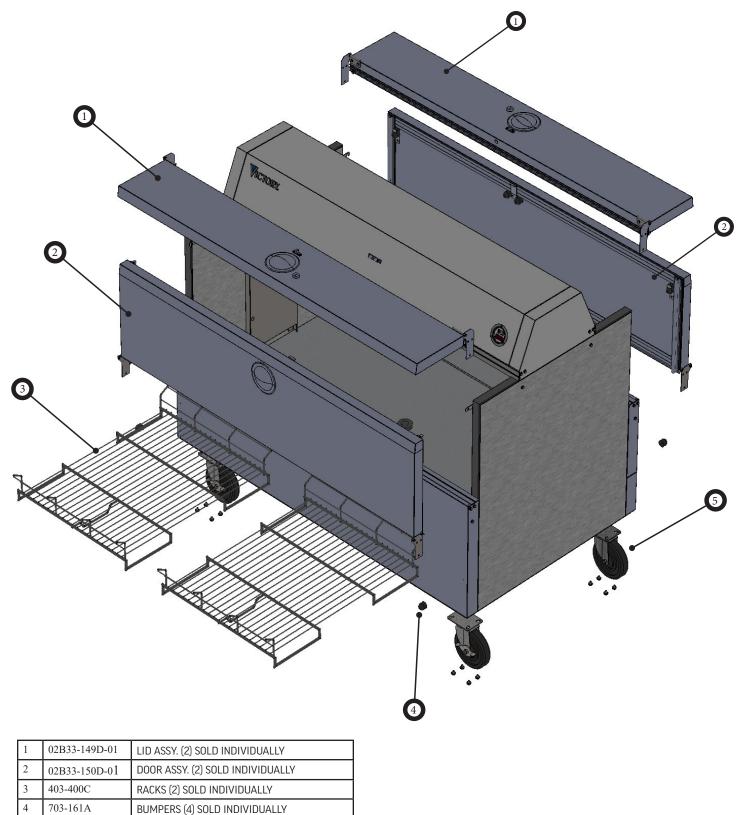


6	305-491D	EVAP COIL (1)
7	04B31-082D-02	DRAIN PAN (1)
8	501-184D	EVAP FAN (2) SOLD INDIVIDUALLY
9	501-186D-02	CONDENSOR FAN (1)
10	305-484D	CONDENSOR COIL (1)
11	706-237D	CONDENSATE PAN (1)
12	312-179D	COMPRESSOR (1)

1

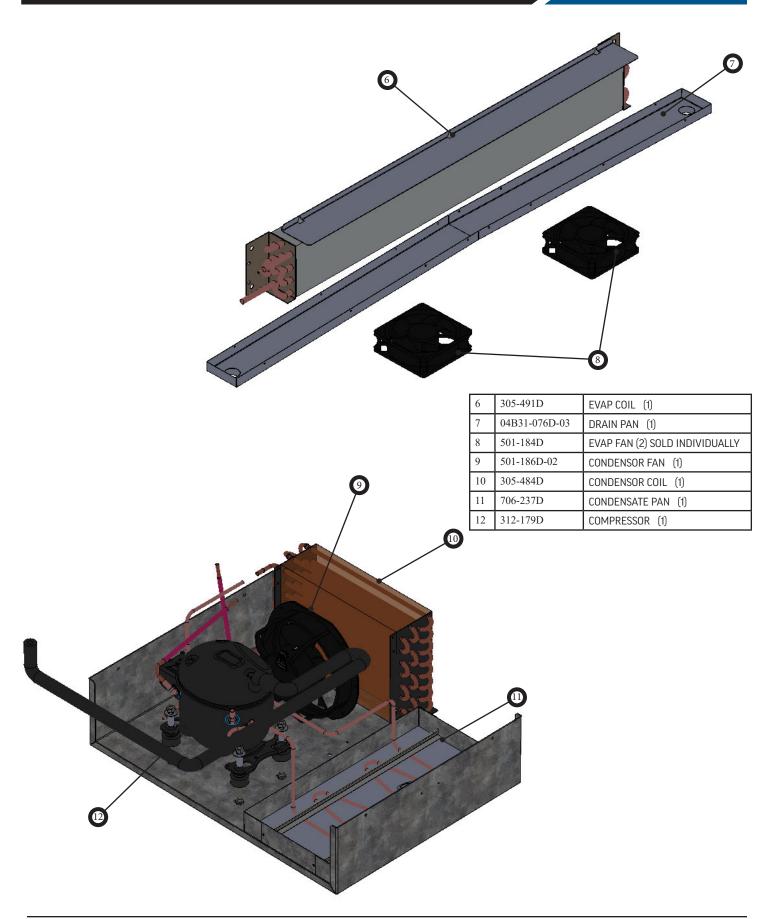


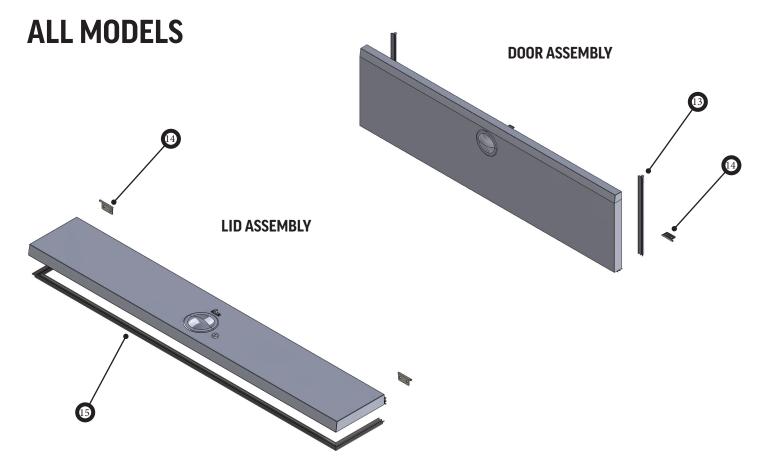
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13	712-025D-01	DOOR GASKET (2) SOLD INDIVIDUALLY
14	13B01-012B	HINGE AND PIN ASSY. (2 PER DOOR, 2 PER LID) SOLD INDIVIDUALLY
	712-024D-12	LID GASKET – VMCF34HC (1)
15	712-024D-07	LID GASKET – VMCF49HC & VMCFD49HC (1)
	712-024D-08	LID GASKET - VMCF58HC & VMCFD58HC (1)

DANFOSS CONTROLLER

ELIWELL CONTROLLER





Warranty Registration					
Register your product online at Victory.com/parts-service or fill out and mail the form below.					
Cabinet Model Number:	Date Of Installation:				
Cabinet Serial Number:					
Location Of Product					
Business Name:					
Business Street:					
Business City: State:	_ Postal Code:				
Mail to: Victory, 3779 Champion Blvd, Winston-Salem, NC 27105					
Rev. 12/23					

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