IMPORTANT INFORMATION

This manual has been prepared to assist you in the installation of your Single Door Refrigerator and to acquaint you with its operation and maintenance.

We dedicate considerable time to ensure that our products provide the highest level of customer satisfaction. If, however service is required, call Perlick at 1-800-777-7267 or your dealer who can provide you with a list of qualified service agents. For your own protection, never return merchandise for credit without our approval.

We thank you for selecting a Perlick product and assure you of our continuing interest in your satisfaction.

IMPORTANT WARRANTY INFORMATION

To register your product, visit our web site at (www.perlick.com). Click on “Commercial”, then “Service”. You will see the link to “Warranty Registration Form”. You must complete and submit this form or the installation date will revert back to the ship Date.

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Perlick is committed to continuous improvement. Therefore, we reserve the right to change specifications without prior notice.

### Installation and Operating Instructions

**Specifications - 24" Custom Series Refrigerator/Froster/Wine Reserve**

**Cabinet Dimensions**

<table>
<thead>
<tr>
<th>MODEL NOS.</th>
<th>HC24RS</th>
<th>HC24FS</th>
<th>HC24WS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length - Inches (mm)</td>
<td>23(\frac{7}{8})&quot; (607)</td>
<td>23(\frac{7}{8})&quot; (607)</td>
<td>23(\frac{7}{8})&quot; (607)</td>
</tr>
<tr>
<td>Depth - Inches (mm)</td>
<td>23(\frac{15}{16})&quot; (608)</td>
<td>23(\frac{15}{16})&quot; (608)</td>
<td>23(\frac{15}{16})&quot; (608)</td>
</tr>
<tr>
<td>Height - Inches (mm)</td>
<td>34&quot; (870)</td>
<td>34&quot; (870)</td>
<td>34&quot; (870)</td>
</tr>
</tbody>
</table>

**INTERIOR VOLUME - CUBIC FOOT (m³)**

- HC24RS: 5.3 (0.15)
- HC24FS: 5.3 (0.15)
- HC24WS: 5.3 (0.15)

**SHELVING**

- HC24RS: 2 Full Extension Shelves
- HC24FS: 2 Full Extension Shelves
- HC24WS: 5 Full Extension Wine Racks

**CAPACITY**

- HC24RS: 5 cases
- HC24FS: 86 glasses
- HC24WS: 45 wine bottles

**TEMPERATURE RANGE**

- HC24RS: 32°F to 42°F (0°C to 6°C)
- HC24FS: -10°F to +10°F (-23°C to -12°C)
- HC24WS: 45°F to 65°F (7°C to 18°C)

**RUNNING LOAD AMPS**

- HC24RS: 2.3
- HC24FS: 2.3
- HC24WS: 2.3

**CONDENSING UNIT H.P.**

- HC24RS: 1/6 HP
- HC24FS: 1/6 HP
- HC24WS: 1/6 HP

**SHIP WT. Lbs. (kg.)**

- HC24RS: 195 (89)
- HC24FS: 195 (89)
- HC24WS: 215 (98)

**INTERIOR**

- All stainless steel interior.

**EXTERIOR**

- Stainless steel top, sides and grille, galvanized back and bottom. See door finishes under optional accessories.

**REFRIGERATION**

- R-134a capillary tube-type with hermetic compressor. Front access condenser. Froster equipped with automatic 4 hour hot gas defrost cycle and manual 6 hour defrost with auto restart.

**ELECTRICAL**

- 115V, 60Hz., 1 phase, furnished with 3-prong NEMA 5-15P plug, 6 foot long cord.

**PLUMBING**

- None required. Moisture drains to self evaporating condensate pan.

**VENTILATION**

- Front vented.

**OPTIONAL ACCESSORIES & MODIFICATIONS**

- Leg set
- Caster Set
- Door Lock
- Brass hardware (classic, 12" & full length) or pull tab
- Black vinyl coated
- Stainless steel

**Door Finishes**

- Customer choice of laminate
- Powder coated (color options)**
- Prepared for field lamination
- Glass door with black vinyl frame
- Glass door with stainless steel frame
- Glass door with laminated frame
- Glass door with powder coated frame**

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** Call Milwaukee or see our web site for standard or custom color options.
† HC24RS Only

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Perlick is committed to continuous improvement. Therefore, we reserve the right to change specifications without prior notice.
Preparing the Cabinet

Uncrating and Inspection
Remove all crating material before operating. Carefully inspect cabinet for hidden damage. If damage is discovered, file your claim immediately with the transport company. Perlick is not responsible for damage in transit.

Plumbing
No plumbing connections are required. Condensate from the cooling coil is automatically evaporated through a condensate pan located in the condensing unit section.

Electrical
The cabinet must be connected to a separately fused power source (see Electrical Specification Plate) and grounded in accordance with National and Local Electrical Codes.

CAUTION:
Do not attempt to operate the equipment on any other power source than that listed on the Electrical Specification Plate.

Installing Casters or Legs (optional)
Remove existing cabinet glides. Attach bracket assembly to the bottom of the cabinet base using the 1/4”–20 Phillips head machine screws provided. Attach casters or legs to the mounting bracket with 1/4”–20 Phillips head screws provided.

NOTE: To comply with NSF requirements, cabinet must be sealed to floor or on legs, casters or rollers.

Placing the Cabinet
To assure maximum performance, fresh air must be allowed to circulate through the machinery compartment. Do not place anything in front of the cabinet that would obstruct air flow at these grilles. Do not place the unit in an unventilated small room.

Cabinet should be leveled front to back and side to side.

Anti-tip (without Legs, Casters or Rollers)
To prevent the cabinet from tipping forward and to provide a stable installation, the cabinet must be secured in place with an anti-tip device.

A set of metal anti-tip brackets are supplied. These brackets should be attached to the floor, at the back of the cabinet; each bracket located to catch each rear glide when the cabinet is pushed back into position.

THE ANTI-TIP BRACKETS MUST CATCH EACH OF THE GLIDES TO HAVE A STABLE AND SAFE INSTALLATION.

Some installation sites might need to be modified to provide a secure surface for attaching the bracket. Refer to the illustration below for anti-tip mounting bracket locations.

Perlick is committed to continuous improvement. Therefore, we reserve the right to change specifications without prior notice.
Preparing the Cabinet

Sealing the Cabinet

For sanitation purposes, it may be necessary to seal the base of the cabinet to the floor. This can be accomplished by laying a bead of silicone sealant between the base of the cabinet and the floor as shown by the figure below.

When sealing the cabinet to the floor, make sure that the louvered front grille plate can still be removed for condenser maintenance and cleaning.

CAUTION:
Finished flooring should be protected with appropriate material to avoid damage from moving the unit.

If unit has been laid on its back or sides, place unit upright and allow minimum of 24 hours before connecting power.

Plug the unit into the 15 amp grounded outlet located in the installation opening. With power applied to the unit, check that lighting and cooling function operate properly, then turn off power to wall outlet at the circuit breaker.

CAUTION:
To prevent damage to the counter top and unit underneath, do not place heavy objects on the counter top directly above the unit.

Check interior door openings inside unit and ensure unit is level.
Prefering the Cabinet

Shelving

**IMPORTANT:** To achieve maximum performance, interior louver openings and fan guard openings should never be obstructed.

**Refrigerator/Froster:**
The single door unit comes standard with black vinyl coated adjustable full extension pullout shelves.

**Wine Reserve:**
The single door unit comes standard with six full extension black vinyl coated wine racks capable of storing 48 total wine bottles. Shelves are removable and adjustable to accommodate oversized (magnum) bottles.

Adjusting Full Extension Shelving

- Pull the shelf out to its furthest position. Locate the tabs in the middle of both extenders (See Extender Tabs Below). Press tabs and pull out.
- Reposition each bracket separately. Grasp the middle of the bracket, pull the front end up and out, then forward to remove (See Mounting Brackets Below).
- Place bracket at desired position. Push the rear hook into the rear key slot. Set front of bracket on the wall hook.
- Repeat for other bracket(s).
- Push extenders completely into the unit. Align the shelf grooves with the extenders and slide completely into the unit.

Preparing the Cabinet

1. Press Tabs and Pull Shelf Out
2. Lift This End Up
3. Sliding Shelf Extender Tabs
4. Sliding Shelf Mounting Brackets
Operation Instructions

Temperature Control
The controller is located at the top rear panel of the cabinet.

Approximate temperature operating ranges are:

<table>
<thead>
<tr>
<th></th>
<th>Minimum</th>
<th>Factory Settings</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refrigerator</td>
<td>33°F</td>
<td>38°F</td>
<td>42°F</td>
</tr>
<tr>
<td>Wine Reserve</td>
<td>40°F</td>
<td>55°F</td>
<td>65°F</td>
</tr>
<tr>
<td>Froster</td>
<td>-10°F</td>
<td>0°F</td>
<td>+10°F</td>
</tr>
</tbody>
</table>

Adjusting Temperature

- **Colder Temperatures**: Turn the adjusting screw clockwise (to the right).
- **Warmer Temperatures**: Turn the adjusting screw counterclockwise (to the left).
- **Temperature Control “OFF”**: Turn the adjusting screw completely counterclockwise to the “OFF” position until a click is heard.

The condenser fan and motor turns off and on with the compressor.

General
This unit is equipped with state-of-the-art refrigeration system and it is a frost-free model. The evaporator coil automatically defrosts on demand at predetermined intervals.

Interior Light
The unit is equipped with an interior light that illuminates when the door is opened. A manual switch is located next to the light for displaying the product through the glass door. Always ensure the manual switch is in the off position before closing a solid wood or stainless steel door.

If manual switch is left on for an extended period of time, it may increase the cabinet temperature, especially at the top and cause the refrigeration system to run longer.

Loading Product
**IMPORTANT**: Before storing perishables, allow the unit to run for a minimum of 24 hours to allow temperature stabilization after startup.

When loading items into the unit, do not block internal louvers and fan guard openings or performance will be decreased.

Checking Product Temperature
To accurately check the temperature of the product stored in a refrigerated compartment, insert an accurate thermometer into a sealable plastic (non-breakable) bottle partially filled with water. Tighten the cap securely.

Place the bottle into the desired area for 24 hours. Refrain from opening the unit during the testing period. After 24 hours, check the temperature of the water. Adjust the control settings if necessary and re-test.

The units are pre-set to achieve the recommended temperature range when installed in a 70° ambient environment. Factors which affect the internal temperatures of the cabinet include the following:

- Temperature setting
- Room temperature where installed
- Number of times the door is opened and closed
- Length of time the door is opened
- Adjacent compartment temperature
- Style of door installed
- Door gasket and sealing
- Amount of time internal light is illuminated
- Installation in direct sunlight or near a heat source
Maintenance

**WARNING:**
Shut off the electricity to the unit before cleaning the condenser and other routine maintenance.

**Cleaning:**
To clean stainless steel exterior or interior surfaces, use a soft, non-abrasive stainless steel cleaner to wipe down the surfaces.

Glass doors can be cleaned using any standard glass cleaner available on the market.

To clean interior non-metallic surfaces and removable parts, wash with a mild solution of soap and lukewarm water with a little baking soda. Rinse and dry thoroughly. Avoid getting water on lights, control panel, fan motor and unfinished wood wine rack faces.

**CAUTION:**
Do not use abrasive cleaners or cloths on any of the interior or exterior surfaces or removable parts.

**Cleaning the Condenser:**
The condenser should be cleaned every 3 months. The condenser is located behind the toe plate. Remove the toe plate and use a soft bristle brush and vacuum to remove dust and lint. Avoid damaging or crushing the condenser fins or tubing. Upon completion, re-install the toe plate.

**CAUTION:**
Failure to clean the condenser could result in temperature loss or mechanical failure. Clean this area every three months.

**Avoiding Stainless Steel Corrosion:**
Corrosion can be prevented by following product cautions, cleaning instructions and avoiding use of certain chemicals or objects which will cause stainless steel corrosion.

**Stainless Steel Enemy:**
- Steelwool or steel scouring pads
- Cherry, Orange or Olive Juice
- Chlorine bleach
- Sharp objects

**SINGLE DOOR FROSTER ONLY**

**Defrost System - Hot Gas Defrost**
This system consists of six-hour, as well as a four-hour defrost cycle which includes a 20 minute evaporator defrost. The six-hour defrost cycle is manually activated and automatically terminated, while the four-hour cycle is completely automatic.

**The Six-Hour Solid-State Defrost Timer:**
This timer shuts off the power to the condensing unit, the evaporator fan and automatic four-hour defrost timer. To activate the six-hour defrost system, depress the defrost switch located in the front grille of the cabinet. An amber light will illuminate and the defrost cycle will begin.

When the defrost cycle ends, the light goes off and the cabinet resumes normal operation. To manually cancel the defrost cycle, momentarily unplug the unit.

**The Four-Hour Defrost Timer:**
This timer ensures that frost will not buildup on the evaporator coil. Every four hours the hot gas by-pass valve is opened and hot gas is circulated through the evaporator coil. The defrost cycle is terminated when the coil is clear of frost. The defrost cycle lasts for approximately 20 minutes. During normal operation it is recommended that the doors are not left open to prevent excessive frost buildup on the coil.
Troubleshooting

If the unit appears to be malfunctioning, read through the OPERATION section first, then check the guide below to identify and resolve the problem.

**DANGER**

Electrocution hazard! Never attempt to repair or perform maintenance on the unit until the main electrical power has been disconnected.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>RESOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>No interior light</td>
<td>Is the bulb loose?</td>
</tr>
<tr>
<td></td>
<td>Is the bulb burned out?</td>
</tr>
<tr>
<td>Light stays on when the door is closed</td>
<td>Manual ON/OFF light switch is turned on.</td>
</tr>
<tr>
<td></td>
<td>Is the door switch making contact with the plunger?</td>
</tr>
<tr>
<td>Noisy during operation</td>
<td>Certain sounds are normal. Soft sounds from the compressor, fan motor and valves will be heard.</td>
</tr>
<tr>
<td>The refrigerated cabinet isn't running</td>
<td>Is there electrical power to the unit?</td>
</tr>
<tr>
<td></td>
<td>Is the building circuit breaker or fuse on?</td>
</tr>
<tr>
<td></td>
<td>Is the control set properly?</td>
</tr>
<tr>
<td></td>
<td>Is the condenser area clean?</td>
</tr>
<tr>
<td>The refrigeration compartment is warmer than usual</td>
<td>Is the condenser area clean and free of obstruction?</td>
</tr>
<tr>
<td></td>
<td>Has the door been open for a long time or more frequently door opening occurred?</td>
</tr>
<tr>
<td></td>
<td>Are internal louvers and fan guard openings obstructed?</td>
</tr>
<tr>
<td>The refrigerated compartment is cooler than usual</td>
<td>Is the control set properly?</td>
</tr>
<tr>
<td></td>
<td>Is the door closing and sealing properly?</td>
</tr>
<tr>
<td>The refrigerations runs for long periods of time</td>
<td>Is the condenser area clean and free of obstruction?</td>
</tr>
<tr>
<td></td>
<td>Has the door been open for a long time or more frequently door opening occurred?</td>
</tr>
<tr>
<td></td>
<td>Has warm product just been placed in the unit?</td>
</tr>
<tr>
<td></td>
<td>On hot days and in warm room temperatures, the system will run longer.</td>
</tr>
<tr>
<td>Condensation forms inside the refrigerated compartments</td>
<td>This is normal during high humidity and frequent door openings.</td>
</tr>
<tr>
<td></td>
<td>Are the doors closing and sealing properly?</td>
</tr>
<tr>
<td>Condensation forms on the outside of the unit</td>
<td>During periods of high humidity, some condensation might appear on the outside surface. The condensation will disappear when the humidity drops. Meanwhile, be sure doors are closing and sealing properly. If condensation persists, contact your Perlick Factory Authorized service center.</td>
</tr>
</tbody>
</table>

To Obtain Product Information

- Contact your selling dealer.
- Call 800-558-5529 for factory assistance for information, planning, installation or product information.
- Write Perlick Corporation, Customer Service Department, 8300 W. Good Hope Road, Milwaukee, Wisconsin 53223.
- E-mail us at warrantyserv@perlick.com.

To Obtain Product Service, Replacement Parts or Accessories:

- Use only genuine Perlick replacement parts and accessories. Genuine Perlick parts and accessories are designed to work correctly with Perlick products and offer superior service life. The use of non-Perlick parts can damage the unit and may void the warranty.
- Check the model and serial number of the unit located on the label attached to the inside top of the cabinet.
- Call a Perlick Factory Authorized service center. For the location of the nearest Service Center, contact your dealer, or inquire via the web at www.perlick.com, or write to: Perlick Corporation, Customer Service Department, 8300 W. Good Hope Road, Milwaukee, Wisconsin 53223, call 800-558-5592, or e-mail us at: warrantyserv@perlick.com.
## Replacement Parts

<table>
<thead>
<tr>
<th>MODEL NOS.</th>
<th>HC24RS</th>
<th>HC24FS</th>
<th>HC24WS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item</td>
<td>Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Light switch, Rocker</td>
<td>63303</td>
<td>63303</td>
</tr>
<tr>
<td>2</td>
<td>Door Switch, Plungers</td>
<td>63711</td>
<td>63711</td>
</tr>
<tr>
<td>3</td>
<td>Light Assembly</td>
<td>63716</td>
<td>63716</td>
</tr>
<tr>
<td>4</td>
<td>Light Bulb - Replacement</td>
<td>63716-1</td>
<td>63716-1</td>
</tr>
<tr>
<td>5</td>
<td>Condenser/Evaporator Fan</td>
<td>65253</td>
<td>65253</td>
</tr>
<tr>
<td>6</td>
<td>Evaporator Fan Guard</td>
<td>65254</td>
<td>65254</td>
</tr>
<tr>
<td>7</td>
<td>Temperature Control</td>
<td>61282</td>
<td>61282</td>
</tr>
<tr>
<td>8</td>
<td>Power Cord</td>
<td>65470</td>
<td>65470</td>
</tr>
<tr>
<td>9</td>
<td>Wire Harness, Machine Compartment</td>
<td>65758</td>
<td>N/A</td>
</tr>
<tr>
<td>10</td>
<td>Wire Harness, Evaporator Compartment</td>
<td>65759</td>
<td>65475</td>
</tr>
<tr>
<td>11</td>
<td>Wire Harness, Evaporator Fan Motor</td>
<td>N/A</td>
<td>65271</td>
</tr>
<tr>
<td>12</td>
<td>Wire Harness, 6 Hour Defrost</td>
<td>N/A</td>
<td>61959</td>
</tr>
<tr>
<td>13</td>
<td>Wire Harness, Relay</td>
<td>N/A</td>
<td>65476</td>
</tr>
<tr>
<td>14</td>
<td>Wire Harness, Light to Door Switch</td>
<td>N/A</td>
<td>65934</td>
</tr>
<tr>
<td>15</td>
<td>Defrost Terminator</td>
<td>N/A</td>
<td>57676</td>
</tr>
<tr>
<td>16</td>
<td>Solid State Controller</td>
<td>N/A</td>
<td>57466</td>
</tr>
<tr>
<td>17</td>
<td>Time Delay Relay</td>
<td>N/A</td>
<td>63794</td>
</tr>
<tr>
<td>18</td>
<td>Switch Monetary</td>
<td>N/A</td>
<td>C31659</td>
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<tr>
<td>19</td>
<td>Compressor w/Electricals</td>
<td>N/A</td>
<td>63778</td>
</tr>
<tr>
<td>20</td>
<td>Drier</td>
<td>63719</td>
<td>63719</td>
</tr>
<tr>
<td>21</td>
<td>Fin Coil, Evaporator</td>
<td>65251</td>
<td>65251</td>
</tr>
<tr>
<td>22</td>
<td>Fin Coil, Condenser</td>
<td>65252</td>
<td>65252</td>
</tr>
<tr>
<td>23</td>
<td>L&amp;S Line Assembly</td>
<td>65407</td>
<td>65407</td>
</tr>
<tr>
<td>24</td>
<td>Hot Gas Solenoid Valve (Complete)</td>
<td>N/A</td>
<td>63717</td>
</tr>
<tr>
<td>25</td>
<td>Replacement Door (Configured)</td>
<td>RD-HC24</td>
<td>RD-HC24</td>
</tr>
<tr>
<td>26</td>
<td>Gasket, Door</td>
<td>66237-7</td>
<td>66237-7</td>
</tr>
<tr>
<td>27</td>
<td>Plunger Bracket for Door Switch</td>
<td>63948-1</td>
<td>63948-1</td>
</tr>
<tr>
<td>28</td>
<td>Hinge Kit, Left Hand</td>
<td>67052L</td>
<td>67052L</td>
</tr>
<tr>
<td>29</td>
<td>Hinge Kit, Right Hand</td>
<td>67052R</td>
<td>67052R</td>
</tr>
<tr>
<td>30</td>
<td>Lock Kit, Left Hand</td>
<td>67054L</td>
<td>67054L</td>
</tr>
<tr>
<td>31</td>
<td>Lock Kit, Right Hand</td>
<td>67054R</td>
<td>67054R</td>
</tr>
<tr>
<td>32</td>
<td>Lock, Polished Brass (Lock Only)</td>
<td>67109PB</td>
<td>67109PB</td>
</tr>
<tr>
<td>33</td>
<td>Handle, Door, Long SS</td>
<td>65305-1</td>
<td>65305-1</td>
</tr>
<tr>
<td>34</td>
<td>Handle, Door, Short SS</td>
<td>65305-2</td>
<td>65305-2</td>
</tr>
<tr>
<td>35</td>
<td>Handle, Door, Classic 6&quot; Pull</td>
<td>C31409-1</td>
<td>C31409-1</td>
</tr>
<tr>
<td>36</td>
<td>Handle, Door, Pull Tab</td>
<td>65609-3</td>
<td>65609-3</td>
</tr>
<tr>
<td>37</td>
<td>Replacement Door Overlay (Configured)</td>
<td>RO-CC</td>
<td>RO-CC</td>
</tr>
<tr>
<td>38</td>
<td>Replacement Shelving (Configured)</td>
<td>RS-24</td>
<td>RS-24</td>
</tr>
<tr>
<td>39</td>
<td>Leveling Leg</td>
<td>63728</td>
<td>63728</td>
</tr>
</tbody>
</table>
**HC24RS and HC24WS**

- **Condenser Fan Motor**
- **Evaporator Fan Motor**
- **Compressor**
- **Door Switch**
- **Light Switch**
- **Temperature Control**

**DEFROST CYCLE:**
1. After 220 minutes:
   - A2 opens.
   - B1 closes.
   - Hot gas valve opens.
   - On delay relay contact closes.
   - Thermostat is bypassed.
   - Compressor restarts after 3 minutes for hot gas defrost.

2. Limit switch opens at 40°F:
   - Compressor off.
   - Hot gas remains energized.

3. After 20 minutes:
   - B1 opens.
   - Hot gas valve is de-energized.
   - A2 closes.
   - Compressor starts through temperature control.

---

**HC24FS**

- **Plug-in-Cord**
- **To Condensing Unit**
- **Door Switch**
- **Defrost Temp. Limit Switch**
- **On Delay Relay**
- **S.S.T. Momentary Contact Defrost Switch w/Indicator Light**
- **S.S. Timer**
- **Relay**
- **Internal Connections**
- **Defrost Cycle:**
   1. After 220 minutes:
      - A2 opens.
      - B1 closes.
      - Hot gas valve opens.
      - On delay relay contact closes.
      - Thermostat is bypassed.
      - Compressor restarts after 3 minutes for hot gas defrost.

2. Limit switch opens at 40°F:
   - Compressor off.
   - Hot gas remains energized.

3. After 20 minutes:
   - B1 opens.
   - Hot gas valve is de-energized.
   - A2 closes.
   - Compressor starts through temperature control.