Dayton® Natural Gas Construction Heater

Description
Dayton model 3VE56C is a natural gas fired construction heater, having a built-in thermostat, and a 150,000 BTU/Hr rating. The heater uses natural gas for combustion and electricity to operate the motor and fan. It is primarily to be used to temporarily heat well-ventilated buildings under construction, alteration or repair. This heater should be utilized in sheltered, well-ventilated areas, but never in occupied dwellings.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Rating BTU/Hr</th>
<th>Fuel</th>
<th>Fuel Consumption (CFM Approx)</th>
<th>Motor</th>
<th>Electric Motor Input</th>
<th>Amperage</th>
</tr>
</thead>
<tbody>
<tr>
<td>3VE56C</td>
<td>150,000</td>
<td>Natural Gas Only</td>
<td>146 Cubic ft/h (4.13 m³/h)</td>
<td>435</td>
<td>3440 RPM</td>
<td>120V/60Hz, 1/9 HP 0.7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Manifold Pressure</th>
<th>Maximum Supply Pressure to Heater</th>
<th>Minimum Supply Pressure to Heater</th>
<th>Temperature Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>3VE56C</td>
<td>4” W.C.</td>
<td>1/2 PSI</td>
<td>5” W.C.</td>
<td>Built-In Thermostat</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Ignition</th>
<th>Spark Plug Gap (Inches)</th>
<th>Size L x W x H (Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3VE56C</td>
<td>Continuous spark</td>
<td>.12 (3.05 mm)</td>
<td>25 x 9.4 x 15.5 (63.5 x 23.9 x 39.4 cm)</td>
</tr>
</tbody>
</table>

General Safety Information
Make certain you read and understand all warnings. Keep these instructions for reference. They are your guide to safe and proper operation of this heater. Safety information appears throughout these instructions. Pay close attention to them. Below are definitions for the safety information listed throughout this manual.

**DANGER** Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

**WARNING** Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

**CAUTION** Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.

IMPORTANT: Not every possible circumstance that might involve a hazard can be anticipated. The warnings in this manual and on tags or decals affixed to the unit are therefore not all-inclusive. If a procedure, work method, or operating technique not specifically recommended by is used, you must make sure it is safe for you and others. You should also ensure that equipment will not be damaged or made unsafe by the operating or maintenance method you choose.

Consumer: Retain this manual for future reference.

Unpacking
1. Unpack all materials used to protect the heater inside of carton. Retain plastic caps attached to exposed fittings for use during storage.
2. Remove heater, accessories and all hardware from carton.
3. Inspect all items for damage that may have occurred during shipment.
Dayton® Natural Gas Construction Heater

General Safety Information (Continued)

**WARNING**

**General Hazard Warning:** Failure to comply with the precautions and instructions provided with this heater can result in death, serious bodily injury, and property loss, or damage from hazards of fire, explosion, burn, asphyxiation, carbon monoxide poisoning, and/or electrical shock. Only persons who can understand and follow these instructions should use or service this heater.

**WARNING**

Fire, burn, inhalation, and explosion hazard. Keep solid combustibles such as building materials, paper, or cardboard, at a safe distance away from heater as recommended by the instructions. Never use the heater in spaces which do or may contain volatile or airborne combustibles or products such as gasoline, solvents, paint thinner, dust particles, or unknown chemicals.

**WARNING**

Not for home or recreational vehicle use.

This heater has been designed as a construction heater in accordance with ANSI Z83.7 CSA 2.14. Other standards govern the use of fuel gases and heating products for specific uses. Your local authority can inform you of these. The primary purpose of these construction heaters is to provide temporary heating of building under construction, alteration, or repair. When properly used, the heater provides safe economical heating. Products of combustion are vented into the heated area.

- For either indoor or outdoor use.
- Adequate ventilation must be provided.

**California Proposition 65 Warning:**

Fuels used in gas or oil fired appliances and the products of combustion of such fuels, contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. This product contains chemicals, including lead and lead compounds, known to the state of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

**DANGER**

Carbon monoxide poisoning may lead to death! Some people are more affected by carbon monoxide than others. Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, and/or nausea. If you have these signs, the heater may not be operating properly, or the areas may not be sufficiently ventilated. Get fresh air at once! Have heater serviced.

Natural Gas: Natural gas has a distinctive odor. This odor helps you detect a natural gas leak. However, the odor may fade. Natural gas may be present even though no odor exists.

**WARNING**

Install and use heater with care.

Follow all local ordinances and codes. In the absence of local ordinances and codes, refer to the National Fuel Gas Code handbook NFPA54/ANSI Z223.1 and the Natural Gas Installation Code, CAN/CSA B149.1. This instructs on the safe storage and handling of flammable gases.

- Use only the electrical voltage and frequency specified on model plate. The electrical connections and grounding of the heater shall follow the National Electric Code, ANSI/NFPA 70 or the Canadian Electrical Code, Part 1.
- Electrical grounding instructions - This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle or extension cord.
  - Use only natural gas. Do not attempt to operate on LP gas.
  - Provide adequate ventilation. Before using heater, provide at least a three-square-foot opening of fresh, outside air for each 100,000 Btu/Hr of rating.
  - Do not use heater in occupied dwellings or in living or sleeping quarters.
  - Keep appliance area clear and free from combustible materials, gasoline, paint thinner, and other flammable vapors and liquids. Dust is combustible. Do not use heater in areas with high dust content.

Minimum heater clearances from combustibles:

- Outlet: 6 Ft. (1.83 m) Sides: 2 Ft. (0.61 m) Top: 3 Ft. (0.91 m) Rear: 2 Ft. (0.61 m)
- Check heater for damage before each use. Do not use a damaged heater.
- Check hose (if used) before each use of heater. If highly worn or cut, replace with hose specified by manufacturer before using heater.
- Locate heater on stable and level surface if heater is hot or operating.
- Never block air inlet (rear) or air outlet (front) of heater.
- Locate heater next to a strong draft, wind, water spray, rain, or dripping water.
- Keep heater away from children and animals away from heater.

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General Safety Information (Continued)
- This heater is equipped with a thermostat. Heater may start at anytime.
- Never move, handle, or service a hot, or operating heater. Severe burns may result. You must wait 15 minutes after turning heater off.
- To prevent injury, wear gloves when handling heater.
- Never attach ductwork to heater.
- Do not alter heater. Keep heater in its original state.
- Do not use heater if altered.
- Turn off natural gas supply to heater and unplug when not in use.
- This heater is not to be used with external thermostats, timers or other devices that control or alter electrical supply to the heater.

Principals of Operation

FUEL SYSTEM
The pipe runs from the gas supply to the heater itself. After the gas runs through the pipe, it passes through the solenoid valve and out the nozzle into the combustion chamber.

AIR SYSTEM
The internal motor turns the fan, which pushes air around and through the combustion chamber. Here the air is heated and provides a constant stream of warmth.

IGNITION SYSTEM
The spark module sends voltage to the ignitor. The ignitor ignites the fuel and air mixture.

SAFETY CONTROL SYSTEM
This system shuts the heater down if the flame is extinguished. The fan and motor will continue to operate, but there will not be any heat.

TEMPERATURE CONTROL SYSTEM
A built-in thermostat allows the heater to turn on and off to maintain a consistent temperature.

THE NATURAL GAS SUPPLY
The user of this heater must provide the natural gas supply and all fittings to properly install the heater.

The natural gas supply should be able to provide a minimum of 150 cubic feet of gas per hour for each heater being used. Consult with your natural gas supplier for the proper sizing of all gas lines. You must regulate the natural gas supply down from a minimum of 5 inches of water column to a maximum of 1/2 PSI.

Be sure to research and follow all local ordinances and codes. In the absence of local codes, follow the National Fuel Gas Code Handbook NFPA54/ANSI Z223.1 and the Natural Gas Installation Code, CAN/CSA B149.1.

Ventilation

WARNING A three square foot opening of fresh outside air must be provided to operate each heater safely. If the proper air ventilation is not provided, carbon monoxide poisoning can occur. Always be sure that the proper ventilation is being provided before starting this heater.

Figure 2 – Cross Section Operational View

For Technical Support or Troubleshooting, Call: 1-800-Grainger
Dayton® Natural Gas Construction Heater

Installation

**WARNING** Review and understand all of the warnings in the Safety Information Section on pages 1–3. They are required to operate this heater safely. Follow all local and state codes when operating this heater.

**WARNING** Be sure to test all connections for leaks after installation or service. Never use an open flame to check for leaks. Apply a 50/50 mixture of dish soap and water to each connection. If bubbles appear, there is a leak. Correct all leaks immediately.

1. Provide the natural gas supply system (See Natural Gas Supply, on page 3).
2. Connect all plumbing and fittings to the low-pressure Natural Gas source. This source must be regulated to a maximum of 1/2 PSI, and the piping must be a 3/4” (19.1 mm) inside diameter minimum, and not be over 10 feet (3 m) in length.
3. Line up the female threaded end of the hose with the fitting on the heater base and tighten.
4. Slowly open valve at natural gas supply.
5. Check for leaks at all connections.

**WARNING** After installing all gas piping, and making the proper connections, be sure to check for leaks. Apply a 50/50 mixture of dish soap and water to all connections. Bubbles forming are evidence of a leak. Be sure to correct all leaks at once!


Operation

**WARNING** Review and understand all of the warnings in the Safety Information Section on pages 1–3. They are required to operate this heater safely. Follow all local and state codes when operating this heater.

**TO START HEATER**

1. Follow all safety, installation and ventilation instructions in this manual.
2. Position the heater on a stable and level surface, and be sure that no drafts blow into the inlet or outlet of the heater.
3. Plug the power cord of the heater into a three hole grounded extension cord. Be sure that the extension cord is at least 6 feet (1.8 m) long, and is UL listed.
4. Following the extension cord requirements, plug the extension cord into a 120 volt/60 Hertz, three hole grounded outlet.
5. Open gas supply valve slowly.
6. Rotate on/off switch to the ON (I) position. Set thermostat to desired temperature. Thermostat setting may be too low if heater does not start. Select a higher temperature and start heater.

NOTE: If the heater does not ignite, turn on/off switch to OFF ( O ) position. Wait for the safety control to reset (usually about five (5) seconds), and try again.

NOTE: If this does not work, the high temperature switch may have opened while the thermostat was shutting down. Wait 10 to 15 minutes for the switch to reset, then attempt to light heater. Continued outages indicate a system problem, have unit serviced by a professional.

**TO SHUT DOWN HEATER**

1. Shut off the gas supply by closing the valve tightly.
2. After a few seconds, the heater will burn off the gas that was left in the supply line.
3. Turn on/off switch to the OFF ( O ) position.
4. Disconnect heater from power supply.

Maintenance

**WARNING** Do not attempt to service the heater while it is hot, operating or plugged in. Severe burns or electrical shock can occur.

1. Be sure to inspect the heater before each use. Check for leaks using the method described in Installation.

**EXTENSION CORD WIRE SIZE REQUIREMENTS**

- Up to 50 feet (15.2 m) long, use 18 AWG rated cord.
- 51 to 100 feet (15.5 - 30.5 m) long, use 16 AWG rated cord.
- 101 to 200 (30.8 - 61 m) feet long, use 14 AWG rated cord.

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section. Repair any leaks immediately.

Maintenance (Continued)
2. Always keep heater clean. Clean the heater annually, or as often as needed to remove any dust or debris. When the heater becomes dirty, wipe it down with a damp cloth.
3. Keep the inside of the heater free from foreign objects and combustibles.
4. Have the heater inspected annually by a qualified service person.

SERVICE PROCEDURES

**WARNING** Never service heater while hot, operating or connected to the gas supply. Severe burns or electrical shock may occur.

REMOVING PROTECTIVE COVER
1. Remove base lower at the bottom of the heater.

2. Remove fan guard.

**FAN**

**IMPORTANT:** Always remove the fan from the motor shaft before removing the motor assembly from the heater. This will help prevent damage to the fan.

1. Remove base lower.
2. Remove fan guard.
3. Remove base.
4. Disconnect lead wires attached to the motor.
5. Remove motor assembly.
6. Loosen fan setscrew using a 1/8” (3.2 mm) hex wrench, and remove fan.
7. Using a soft cloth moistened with kerosene or a cleaning solvent, carefully clean the fan blades making sure not to bend them.
8. Dry fan with clean cloth.
9. Assemble fan on motor shaft and tighten hex nuts firmly (be careful not to overtighten).
10. Reconnect lead wires as shown in the Wiring Diagram (Figure 6).
11. Reassemble base, fan guard and base lower.

**IGNITOR**
The only maintenance necessary for the ignitor is to be sure that the gap between the electrodes is kept between .10” and .15” (2.54 - 3.81 mm). The ignitor is accessible through the combustion chamber.

**Storage**

**CAUTION** Always disconnect heater from gas supply.
1. Replace the plastic caps over the fittings they were installed when you originally unpacked your heater.
2. Store the heater in a safe, clean and dry location.
3. When removing the heater from storage, always check inside of the heater for any foreign objects left by spiders or small animals. Keep the inside of the heater clean from foreign objects and combustibles.
**Dayton® Natural Gas Construction Heater**

**Wiring Diagrams**

If any original wiring as supplied with the heater must be replaced, it must be replaced with type AWG105°C wire or its equivalent except as indicated (*Type SF2-200, **SGI-250°C)

**Figure 6 – Wiring Diagram**

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Use only original replacement parts. This Heater must use design-specific parts. Do not substitute or use generic parts. Improper replacement parts could cause serious or fatal injuries.

Figure 7 – Repair Parts Illustration for Natural Gas Construction Heater

Repair Parts List for Natural Gas Construction Heater

<table>
<thead>
<tr>
<th>REF NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>INNER SHELL ASS' Y</td>
<td>1</td>
<td>2304929</td>
</tr>
<tr>
<td>2</td>
<td>NOZZLE</td>
<td>1</td>
<td>2315481</td>
</tr>
<tr>
<td>3</td>
<td>FLAME HOLDER CAP</td>
<td>1</td>
<td>2304931</td>
</tr>
<tr>
<td>4</td>
<td>THERMAL SWITCH BRACKET</td>
<td>1</td>
<td>2304826</td>
</tr>
<tr>
<td>5</td>
<td>THERMAL SWITCH</td>
<td>1</td>
<td>2201373</td>
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<tr>
<td>6</td>
<td>NOZZLE NUT</td>
<td>1</td>
<td>2304945</td>
</tr>
<tr>
<td>7</td>
<td>SPARK PLUG ASSY</td>
<td>1</td>
<td>2301974</td>
</tr>
<tr>
<td>8</td>
<td>SPARK PLUG NUT</td>
<td>1</td>
<td>2305686</td>
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<tr>
<td>9</td>
<td>GAS TUBING ASS' Y</td>
<td>1</td>
<td>2315483</td>
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<tr>
<td>10</td>
<td>OUTER SHELL - ORANGE</td>
<td>1</td>
<td>2305971</td>
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<tr>
<td>11</td>
<td>CORD WRAP</td>
<td>2</td>
<td>2101423</td>
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<tr>
<td>12</td>
<td>HANDLE ASSY - BLACK</td>
<td>1</td>
<td>2101447</td>
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<tr>
<td>12.1</td>
<td>SCREW - HANDLE FRONT</td>
<td>1</td>
<td>2001355</td>
</tr>
<tr>
<td>12.2</td>
<td>SCREW - HANDLE FRONT</td>
<td>1</td>
<td>2001077</td>
</tr>
<tr>
<td>12.3</td>
<td>NUT - HANDLE REAR</td>
<td>1</td>
<td>2000384</td>
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<tr>
<td>13</td>
<td>MOTOR SUPPORT</td>
<td>1</td>
<td>2304823</td>
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<tr>
<td>13.1</td>
<td>BOLT-MOTOR MOUNTING</td>
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<td>2001332</td>
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<td>13.2</td>
<td>SLEEVE</td>
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<td>14</td>
<td>MOTOR ASS' Y</td>
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<td>2315477</td>
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<td>14.1</td>
<td>MOTOR - FAN</td>
<td>1</td>
<td>2304936</td>
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<td>15</td>
<td>GUARD FAN - BLACK</td>
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<td>16</td>
<td>MOTOR BRACKET</td>
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<td>17</td>
<td>SOLENOID VALVE</td>
<td>1</td>
<td>2304277</td>
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<td>18</td>
<td>SOLENOID VALVE BRACKET</td>
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<tr>
<td>19</td>
<td>BASE ASSY - BLACK</td>
<td>1</td>
<td>2304942</td>
</tr>
<tr>
<td>20</td>
<td>POWER CORD ASS' Y</td>
<td>1</td>
<td>2201163</td>
</tr>
<tr>
<td>21</td>
<td>GAS CONNECTOR INLET</td>
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<td>2315478</td>
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<tr>
<td>22</td>
<td>CAPACITOR</td>
<td>1</td>
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<tr>
<td>23</td>
<td>BASE LOWER - BLACK</td>
<td>1</td>
<td>2304926</td>
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<tr>
<td>24</td>
<td>THERMOSTAT KNOB</td>
<td>1</td>
<td>2101207</td>
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<tr>
<td>25</td>
<td>HEIGHT CONTROLLER - BLACK</td>
<td>1</td>
<td>2304928</td>
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<tr>
<td>26</td>
<td>HEIGHT CONTROL SCREW - BLACK</td>
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<td>2304510</td>
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<td>27</td>
<td>THERMOSTAT ASSY</td>
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<td>27.1</td>
<td>CLIP</td>
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<tr>
<td>28</td>
<td>SWITCH</td>
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<td>29</td>
<td>PCB ASSEMBLY</td>
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<tr>
<td>30</td>
<td>FITTING</td>
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<td>31</td>
<td>REGULATOR</td>
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<td>32</td>
<td>FITTING</td>
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<td>2315480</td>
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</table>

For Technical Support or Troubleshooting, Call: 1-800-Grainger
Dayton® Natural Gas Construction Heater

Troubleshooting Chart

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause(s)</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan does not turn when electrical connection is made</td>
<td>1. No electric power to heater</td>
<td>1. Check current to electric outlet. If voltage is correct, check power cord and extension cord for cuts and breaks</td>
</tr>
<tr>
<td></td>
<td>2. Fan blade contacts inside of heater housing</td>
<td>2. Be sure that housing is not damaged. Make sure there are no obstructions to the fan</td>
</tr>
<tr>
<td></td>
<td>3. Fan blade(s) bent</td>
<td>3. Straighten blade(s) to match others</td>
</tr>
<tr>
<td></td>
<td>4. Fan motor defective</td>
<td>4. Replace motor</td>
</tr>
<tr>
<td>Heater will not fire</td>
<td>1. No spark at igniter</td>
<td>1. Check igniter wire. Reattach or tighten if loose. Check spark module. Replace if necessary. Check all electrical components</td>
</tr>
<tr>
<td></td>
<td>2. Improper spark gap</td>
<td>2. Set gap to 0.12” (3 mm)</td>
</tr>
<tr>
<td></td>
<td>3. Bad electrode</td>
<td>3. Replace spark plug</td>
</tr>
<tr>
<td>Heater quits while running</td>
<td>1. Internal temperature too high causing limit switch to shut down operation</td>
<td>1. If the heaters output is restricted, internal temperature becomes too high. Move heater away from any obstructions</td>
</tr>
<tr>
<td></td>
<td>2. Damaged control valve</td>
<td>2. Replace control valve</td>
</tr>
<tr>
<td></td>
<td>3. Dust or debris build-up inside of heater</td>
<td>3. Clean inside of heater</td>
</tr>
</tbody>
</table>

Always be sure to follow proper maintenance procedures, by cleaning the heater once per month during regular usage, and check spark gap at least once per season.

LIMITED WARRANTY

DAYTON ONE-YEAR LIMITED WARRANTY. DAYTON® NATURAL GAS CONSTRUCTION HEATER, MODELS COVERED IN THIS MANUAL, ARE WARRANTED BY DAYTON ELECTRIC MFG. CO. (DAYTON) TO THE ORIGINAL USER AGAINST DEFECTS IN WORKMANSHIP OR MATERIALS UNDER NORMAL USE FOR ONE YEAR AFTER DATE OF PURCHASE. ANY PART WHICH IS DETERMINED TO BE DEFECTIVE IN MATERIAL OR WORKMANSHIP AND RETURNED TO AN AUTHORIZED SERVICE LOCATION, AS DAYTON DESIGNATES, SHIPPING COSTS PREPAID, WILL BE, AS THE EXCLUSIVE REMEDY, REPAIRED OR REPLACED AT DAYTON’S OPTION. FOR LIMITED WARRANTY CLAIM PROCEDURES, SEE “PROMPT DISPOSITION” BELOW. DAYTON MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR THAT THE PRODUCTS WILL NECESSARILY CONFORM TO THE ILLUSTRATIONS OR DESCRIPTIONS. EXCEPT AS PROVIDED BELOW, NO WARRANTY OR AFFIRMATION OF FACT, EXPRESSED OR IMPLIED, OTHER THAN AS STATED IN THE “LIMITED WARRANTY” ABOVE IS MADE OR DISCLAIMED. DAYTON’S LIABILITY IN ALL EVENTS IS LIMITED TO AND SHALL NOT EXCEED THE PURCHASE PRICE PAID.

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