WF-8700 Series

WF-8712P  |  WF-8725P  |  WF-8735P  |  WF-8740P

(The Power Center model number is located on the front panel label near the AC breakers)
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WARNING

RISK OF ELECTRICAL SHOCK
Disconnect or isolate all power supplies before making electrical connections. More than one disconnection or isolation may be required to completely de-energize equipment. Contact with components carrying hazardous voltage can cause electric shock and may result in severe personal injury or death.

NOTICE

All wiring must conform to local, national, and regional codes and regulations. Use copper conductors only for all wire connections. Do not exceed the electrical ratings for the WF-8700 Series Converter/Charger or the equipment connected to it. Failure to follow these precautions may cause equipment failure and/or electrical shock which could result in severe personal injury or death.

CAUTION

INSTALLATION AND SERVICING
This product should be installed and serviced by a certified or licensed electrician familiar with applicable safety codes and installation requirements. Failure to observe this precaution could result in electrical shock or bodily injury. Consult your servicing dealer before attempting any work on this product.

WARNING

SPARK HAZARD
This unit employs components that can produce arcs or sparks. To prevent fire or explosion, do not install in compartments containing batteries or flammable materials (LP gas). This product is NOT ignition protected.

CAUTION

DO NOT OBSTRUCT VENTILATION OPENINGS
To prevent fire, DO NOT cover or obstruct enclosure ventilation openings. DO NOT mount the WF-8712P or WF-8725P in a zero-clearance compartment as overheating may result. These units require a 2 cubic foot (min) vented area behind the unit for cool air exchange.

WARNING

BATTERY SYSTEM
Use converter only on appropriate battery systems. Other usage may cause personal injury and damage. Consult all battery manufacturer’s recommendations for additional safety information before use.

GENERAL INFORMATION
WF-8700 Series Power Center Safety Features

Reverse Battery Protection
The WF-8700 Series Power Centers will charge the 12-volt House battery if installed. A battery DOES NOT have to be installed for WF-8700 Series Power Center converter operation. When a battery is installed, a reverse polarity fuse protects the converter circuitry. The fuse is located along the bottom of the row of fuses. Refer to Figure 1 below. This feature prevents permanent damage to the converter from a battery connected into the circuit backwards. In addition to protecting the converter section, the reverse polarity fuse is the main connection between the converter and the DC fuse board.
The fuse values and quantity vary depending on which WF-8700 Series Power Center you have. Refer to the table and drawing below.

- WF-8712 – 15A (1)
- WF-8725 – 30A (1)
- WF-8735 – 40A (1)
- WF-8740 – 30A (2)

Blown Fuse Indicators on DC Fuse Board

The DC Fuse Board has individual blown fuse indicators as standard equipment. The WF-8712P & WF-8725P have 4 DC circuits (3 Branch and 1 Battery). The WF-8735P and WF-8740P have 6 DC circuits (5 Branch and 1 Battery). Each of the circuits contain a Red LED to indicate a blown fuse. If one of the circuits draws more current than the rating of the fuse, the fuse will blow. When this occurs, the Red LED for that circuit will illuminate. 

**NOTE:** The fuse board employs surface mount LEDs which are barely visible to the naked eye. Replace the blown fuse with a known good fuse of the same rating. **NOTE:** If the replacement fuse blows again, check that circuit for a short or overload condition.

Automatic Cooling Fan

The cooling fan in the WF-8700 Series Power Center is incremental and is controlled by the current drawn out of the converter to the applied load. **NOTE:** The WF-8712P does not have a fan. The on-board microprocessor increases fan speed as the total load increases and decreases fan speed as the load decreases. Unlike traditional temperature-controlled fans, the load-controlled fan provides better component cooling by avoiding temperature spikes which can lead to premature component failure.

Over-Temperature Protection

If the internal temperature of the converter exceeds a critical point, it will shut down. This protects the unit from excessive heat that may damage sensitive components. The unit will restart once the temperature inside has dropped.

Electronic Current Limiting

In the event that the output current exceeds the maximum rating for the WF-8700 Series Power Center converter, the output current will remain constant, but the output voltage will begin to drop. If this occurs, the unit will recover once loads are reduced.
Short-Circuit Protection
Should a short-circuit occur in the RV, the WF-8700 Series Power Center converter will drop the voltage output to zero volts. If the short-circuit condition is removed and no other fault conditions are detected, the converter will resume normal operation. However, short-circuit conditions are dangerous, and an RV will require inspection by a qualified service technician.

CIRCUIT PROTECTION
WF-8700 Series Power Center Fuses and Breakers

DC Fuses (12 Volts)
The DC fuse boards have spaces for Branch, Battery and Reverse Polarity fuses as described above. Should any of fuses blow, the Branch Circuit fuses and the Reverse Battery Protection fuses should be replaced with ATC or ATO automotive type fuses such as:

- Littelfuse type 257
- Bussmann type ATC

AC Circuit Breakers (120/240 Volts)
The AC Breaker side of the WF-8700 Series Power Center is located on the left side of the enclosure. The WF-8700 Series Power Center accepts standard residential breakers. The WF-8712P and WF-8725P have spaces for a 30 Amp Main and up to 3 Branch breakers when using duplex breakers. The WF-8735P and WF-8740P have spaces for a 30 Amp Main and up to 5 Branch breakers when using duplex breakers. A list of factory tested and approved breakers follows. The breakers may be purchased at most big-box department stores and home centers.

UL-Listed Main Circuit Breakers, Rated for 120V, Maximum 30A
The following breakers have been factory tested and approved for use as 30 Amp Main breakers in the WF-8700 Series Power Center:

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Model/Cat. No./Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutler Hammer</td>
<td>Type BR and C</td>
</tr>
<tr>
<td>Thomas Betts</td>
<td>Type TB or TBBBD</td>
</tr>
<tr>
<td>ITE/Siemens</td>
<td>Type QP or QT</td>
</tr>
<tr>
<td>Square D</td>
<td>Type HOM or HOMT</td>
</tr>
<tr>
<td>Murray</td>
<td>Type MP-T or MH-T</td>
</tr>
<tr>
<td>General Electric</td>
<td>Type THQL</td>
</tr>
</tbody>
</table>

UL-Listed Branch Circuit Breakers, Rated for 120V, Maximum 20A
The following breakers have been factory tested and approved for use as Branch breakers in the WF-8700 Series Power Center:
<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Model/Cat. No./Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutler Hammer</td>
<td>Type BR and C, Type BRD, BD and A</td>
</tr>
<tr>
<td>Thomas Betts</td>
<td>Type TB or TBBD</td>
</tr>
<tr>
<td>ITE/Siemens</td>
<td>Type QP or QT</td>
</tr>
<tr>
<td>Square D</td>
<td>Type HOM or HOMT</td>
</tr>
<tr>
<td>Murray</td>
<td>Type MP-T or MH-T</td>
</tr>
<tr>
<td>General Electric</td>
<td>Type THQL</td>
</tr>
</tbody>
</table>

When replacing any of the installed circuit breakers, the replacement should be of the same manufacturer, type designation, and equal interrupting rating, not to exceed 30A. The “Short-Circuit-Current” rating for the breaker should be 10,000 Amps.

Breaker Filler Plates: Model #FP-01 or FP-01B (Black)
Three-Stage Smart Charging

In order to maximize battery life, it is best to charge batteries slowly, keep them topped off with a trickle-charge when the RV is not being used. The 3-Stage "smart" charger continuously measures the battery voltage output and regulates the amount of charge using three modes of operation; Absorption, Bulk and Float modes.

All WFCO power converters are automatic three-stage switching power supplies. The converter senses which mode it needs to be in by checking the RV system voltage.

The converter normally provides a constant target output voltage of 13.6 VDC (nominal) to power all the branch circuits. However, it is current limited, and if the output (load) current reaches its maximum, the output voltage will drop as necessary to hold the converter's maximum output current level (the Amperage rating) without exceeding it.

If the output current reaches its maximum (normally caused by a discharged battery), this will cause the converter to go into Bulk Mode, which means the target output voltage will change to 14.4 VDC and a timer will start. Although the converter is outputting 14.4 VDC, you will not be able to read that on a voltmeter due to the voltage-current relationship. From the paragraph above, as load current increases, output voltage decreases. The actual output voltage will not rise until the load current is reduced, which happens naturally as the battery charges or if 12 VDC appliances are turned off.

Bulk Mode will be maintained until the current draw drops to approximately five Amps, or until the timer reaches four hours (whichever happens first). Then the target output voltage is changed back to 13.6 VDC for Absorption Mode. Lights that are powered from the output may change brightness slightly at that time.

Note: For a detailed explanation of the charging modes, please refer to our publication "Theory of Operation", document #AD-TD-0001-0.
Troubleshooting the WF-8700 Series Power Center

Refer to the Troubleshooting Guide for the WF-8700 Series Power Center (Figure 4) below.

Check Converter Output Voltage

Before checking the WF-8700 Series Power Center output voltage, disconnect the battery cables at the battery. Make sure the converter is plugged into an AC source (105-130 VAC). Check the converter output voltage at the battery with a voltmeter. Place the meter probes on the disconnected battery cables; place the **Positive** (red) meter probe on the + Positive red battery wire and place the **Negative** (black) meter probe on the - Negative black wire on the battery cable. Be sure you have good connections at the cables. If the voltage reads 13.6 VDC (+/- 0.2) with no load, the converter is functioning properly.

If the converter output voltage at the battery reads 0.0 VDC, or if the battery is not charging, check for an open inline fuse in the battery wire circuit. One may have been installed by the RV manufacturer. Also check for loose wiring connections.

**NOTE:** The battery circuit (Red wire) should have the following fuse installed:

- WF-8712P – Circuit #4 – 15 A
- WF-8725P – Circuit #4 – 30 A
- WF-8735P – Circuit #6 – 30 A
- WF-8740P – Circuit #6 – 30 A

Reverse Polarity Fuses

If there is no DC output coming from the WF-8700 Series Power Center converter section, first check the reverse polarity fuse(s) on the fuse board. Then, visually inspect the fuses for any breaks in the fuse element. If no breaks are found, use a continuity tester to check for continuity. If the reverse polarity fuses are blown, it means the RV battery was accidentally connected in reverse, either at the battery or at the converter. Investigate the connections and reconnect the cables properly. Replace the fuse with the same type and Amperage rating as the original.

**IMPORTANT:** These fuses protect the converter from damage in the event that the RV battery is accidentally connected in reverse. A reversed battery connection, even if for only a second, will cause these fuses to blow.

If the above checks have been made but the converter output still reads 0.0 VDC, the converter is not functioning properly. Contact the Arterra Distribution Power PROs at 1 (877) 294-8997. Before placing the call, please have available the WF-8700 Series Power Center model number from the front panel label and the 14-digit serial number from the bar code tag located on the fan panel. The fan panel is accessible after the door assembly has been removed.
Should it be determined that the converter section of the WF-8700 Series Power Center is defective, and the unit is under warranty, the entire unit will need to be returned. The converter section is not user serviceable.

When preparing the unit for return, remove the AC breakers. Label and disconnect each wire as they are removed from the breakers and Ground and Neutral bars. The DC wires protruding from the back of the WF-8700 Series Power Center have been connected to the DC circuits in your RV by the RV manufacturer. In a similar fashion, label and disconnect these wires. Follow the packaging instructions in your warranty claim packet.

**GENERAL COMPLIANCE INFORMATION**

**Agency Listings**

**UL**

The WF-8700 Series Power Centers are UL-Listed, and cUL-Listed (Canadian).

**FCC Compliance Class B**

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
Mounting the Enclosure

The WF-8700 Series enclosure should be mounted in an accessible area such as a wall or in the side of a cabinet. The front of the enclosure should not be obstructed to allow free air flow for the cooling fan. NOTE: The WF-8712P does not have a fan. The enclosures will slide into rough openings as follows:

- WF-8712P and WF-8725P – 10 7/16” W x 6 1/8” H x 3 ¾” D
- WF-8725P and WF-8735P – 10 3/8” W x 6 7/8” H x 4 5/16” D

After wiring is completed, the enclosure fastens to the wall or cabinet using 4 wood screws (not supplied).

⚠️ WARNING

RISK OF ELECTRICAL SHOCK

Disconnect or isolate all power supplies before making electrical connections. More than one disconnection or isolation may be required to completely de-energize equipment. Contact with components carrying hazardous voltage can cause electric shock and may result in severe personal injury or death.

Wiring the AC Breakers

**Make sure no AC power is coming into the RV from either the Shore Power cord or an on-board generator.** Determine the proper size breakers for the loads the WF-8700 Series Power Center will be powering. You can use either single or duplex breakers, or a combination of both. We recommend that all the breakers used be of the same brand. A total of 4 breakers can be mounted in the WF-8712P and WF-8725P when using duplex breakers: 1 Main breaker and up to 3 Branch breakers. A total of 6 breakers can be mounted in the WF-8735P and 8740P when using duplex breakers: 1 Main and up to 5 Branch breakers. Refer to the tables on pages 5 and 6 for a selection of approved breakers. The Main breaker should be 30 Amp and is to be installed in the left-most position. See the wiring diagrams below. A hold down clip is provided to keep the breaker securely in place.

The 30 Amp power cord is routed through the large knockout in the back of the wiring compartment and secured with a Romex clamp. The Black (Hot) wire is connected to the 30 Amp Main breaker as shown. The White (Neutral) wire is connected to the Neutral Terminal bar at the bottom of the wiring compartment. The Green (Ground) wire is connected to the Ground Terminal bar also located at the bottom of the compartment.

Route the Romex leads for the Branch circuits through the Strain Reliefs in the back of the wiring compartment. In a similar fashion, connect the Black wire to the Branch breaker and the White and Green wires to the appropriate Terminal bar.

The Black power wire for converter power on the WF-8735P and WF-8740P has a pigtail connection. The metal pin is inserted in the Branch breaker designated for converter power. The end with the wire nut can be used to power another circuit if necessary. If not used, leave the wire nut installed and push the wire to the side. Make sure all terminals are torqued to the specifications listed on the back of the door assembly.
Wiring the DC Fuse Board

Make sure the house battery is disconnected before beginning the DC wiring. Determine what DC loads are to be connected to the fuse board and what position they will occupy. All 4 circuits on the WF-8712 and WF-8725 Power Centers have up to 20 Amp ATO or ATC fuses installed. On the WF-8735 and WF-8740 Power Centers, circuits F5 and F6 can be used for slide-outs or other higher current loads and can have a maximum 30 Amp ATO or ATC fuse installed. The remaining 4 circuits are general purpose and can have up to 20 Amp ATO or ATC fuses installed. Make sure the fuses are seated properly.
All models have wire lead connections. Strip approximately 1/4" of insulation from the wires and attach to the appropriate connected load using a wire nut or other approved method. Make sure the connectors are tightly secured.

Connect the heavy wire (Red) coming from the battery to the Red 10AWG wire coming from the back of the enclosure.

As a last step, install a separate bus bar in a location behind the converter. Connect the 10AWG White wire coming from the back of the enclosure to this bus bar. Connect the battery negative wire to this bus bar along with all the negative DC load wires. Also, run a wire from the bus bar to chassis ground.

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### WF-8700 Power Center Specification

<table>
<thead>
<tr>
<th>Model No.</th>
<th>WF-8712</th>
<th>WF-8725</th>
<th>WF-8755</th>
<th>WF-8740</th>
</tr>
</thead>
<tbody>
<tr>
<td>Convertor Input Power:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage:</td>
<td>105-130VAC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency:</td>
<td>60Hz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Input current @105VAC</td>
<td>2.5A</td>
<td>3A</td>
<td>7A</td>
<td>8A</td>
</tr>
<tr>
<td>Max Power</td>
<td>205 Watt</td>
<td>425 Watt</td>
<td>595 Watt</td>
<td>680 Watt</td>
</tr>
<tr>
<td>Convertor Output Power</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous power</td>
<td>163 Watt</td>
<td>340 Watt</td>
<td>475 Watt</td>
<td>545 Watt</td>
</tr>
<tr>
<td>Rated DC Output Voltage</td>
<td>13.6V</td>
<td>13.6V</td>
<td>13.6V</td>
<td>13.6V</td>
</tr>
<tr>
<td>Rated DC Current</td>
<td>12A</td>
<td>25A</td>
<td>35A</td>
<td>40A</td>
</tr>
<tr>
<td>Charging Control</td>
<td>Automatically controlled by microprocessor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charging Modes</td>
<td>3-stage Intelligent charge</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intelligent charge mode</td>
<td>Absorption • Bulk • Float (Storage)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery Adaptability</td>
<td>LA/AGM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Absorption charge voltage</td>
<td>13.6V</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bulk charge voltage: (4 Hrs)</td>
<td>14.4V</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage charge voltage</td>
<td>13.2V</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regulation</td>
<td>±1% accuracy against input or load changes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling Fan</td>
<td>Incremental two speeds according to the DC load Amperage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VA efficiency</td>
<td>&gt; 80% (under 70% of load condition)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overload</td>
<td>Current-limiting &amp; shut down; auto recovery upon normal load</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Short-circuit</td>
<td>Shut down &amp; auto recovery upon return to normal load</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Over-temperature</td>
<td>Shut down &amp; auto recovery upon return to normal load</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery reverse polarity</td>
<td>Protected by Fuse; same rated fuse replacement required</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AC Distribution</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Main rating</td>
<td>Max. 50A / 120VAC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Breakers</td>
<td>1 x 30A Main and 5 branch using duplex breakers</td>
<td>1 x 30A Main and 5 branch using duplex breakers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Romex strain reliefs</td>
<td>none</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC Distribution Board</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard DC Output loops</td>
<td>4 x 20 Amp max. each</td>
<td>2 x 30 Amp; 4 x 20 Amp max. each</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LED on Fuse Board</td>
<td>Total 4 chip-LEDs; Red indicating fuse blown status of loops</td>
<td>Total 6 chip-LEDs; Red indicating fuse blown status of loops</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zero Clearance:</td>
<td>None - requires 2 cu ft (min) vented area behind unit for cool air exchange</td>
<td>Special design air cooling duct to avoid heat dissipating into confined space</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimension: W x H x D</td>
<td>11.85 x 7.25 x 5.12 inch / 300 x 184 x 130mm</td>
<td>11.85 x 8.27 x 5.24 inch / 300 x 210 x 138mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cutout Size: W x H</td>
<td>10.43 x 6.11 inch / 265 x 155 mm</td>
<td>10.43 x 6.88 inch / 265 x 175 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight:</td>
<td>2.06 kg</td>
<td>2.15 kg</td>
<td>2.35 kg</td>
<td></td>
</tr>
<tr>
<td>Environmental Condition:</td>
<td>20 ~ 90% Non-condensing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety</td>
<td>UL458 / UL67 certified; FCC Class B compliant</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Figure 6
CONSUMER LIMITED WARRANTY
for WFCO Electronic Products

WFCO extends, to the original owner, a Two Year Limited Product Warranty. This warranty is in effect from the date of original purchase for a period of two (2) years. This limited warranty is extended specifically for and is limited to Recreational Vehicle application and is only valid within the continental United States, Alaska, Hawaii and the Provinces of Canada. WFCO warrants, to the owner, that its products are free from defects in material and workmanship under normal use and service based on its intended use and function. This warranty is limited to the repair or replacement, at WFCO’s discretion, of any defective parts or defective assembly. Any implied warranties of merchantability or fitness for intended use are limited in duration unless applicable State Law provides otherwise. You may have other rights as specified by each individual state.

EXCLUSIONS and LIMITATIONS

The OEM warranty specifically does not apply to the following:

- Any WFCO product that has been repaired or altered by an unauthorized person;
- Any damage caused by misuse, faulty installation, testing, negligence, accident or any WFCO product installed in a commercial vehicle;
- Any WFCO product, whose serial number has been defaced, altered or removed;
- Any WFCO product, whose installation has not been in accordance to the WFCO written instructions;
- Any consequential damages arising from the loss of use of the product including but not limited to: inconvenience, loss of service, loss of revenue, loss or damage to personal property, cost of all services performed in removing or replacing the WFCO product.

Specifications are subject to change without notice or obligation.

- Any WFCO Electronics products sold through unauthorized Internet sources (Example: eBay) will be excluded from all warranty coverage offered by Arterra Distribution / WFCO.

CONSUMER WARRANTY CLAIM PROCEDURE

Upon determination and validation by an authorized OEM dealer that a WFCO product has a defect, a Return Goods Authorization (RGA) number will be required before the product can be returned. The RGA number can be requested by completing the Warranty Information Fax Sheet and appropriate Troubleshooting Form found at www.wfcoelectronics.com. Once these forms have been completed, email the forms along with Proof of Purchase to warranty@wfcoelectronics.com or fax the three documents to the Warranty Department at (574) 294-8698. After receipt of the forms, an RGA number will be issued. This number shall appear on all correspondence with warranty service. Upon validation of the warranty, WFCO shall replace the product with a like product. The RGA number shall be placed on the outside of the carton used to return the product for ease of identification. Do not mark directly on the product. The product must be packaged properly to avoid further product damage which could cause a non-warrantable condition.

WARRANTY ASSISTANCE

The consumer may contact the selling Dealer or OEM for warranty assistance. The consumer may also contact Arterra Distribution, exclusive distributor to WFCO Products at: (574) 294-8997 or Fax (574) 294-8698.
WF-8712/8725 Power Center

Top View

Back View

Bottom View

Figure 7
WF-8735/8740 Power Center

Top View

Back View

Bottom View

Figure 8
THE HEARTBEAT OF TODAY’S RVS