**Diversion™ 165 and 180**

**Quick Specs**

<table>
<thead>
<tr>
<th>Process</th>
<th>TIG (GTAW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Output</td>
<td>150 A at 16 V, 20% Duty Cycle</td>
</tr>
<tr>
<td>Amperage Range</td>
<td>165: 10 – 165 A</td>
</tr>
<tr>
<td></td>
<td>180: 10 – 125 A (115 V)</td>
</tr>
<tr>
<td></td>
<td>180: 10 – 180 A (230 V)</td>
</tr>
<tr>
<td>Input Power</td>
<td>165: 230 V, 1-Phase</td>
</tr>
<tr>
<td></td>
<td>180: 115 and 230 V, 1-Phase</td>
</tr>
<tr>
<td>Max. Open-Circuit Voltage</td>
<td>80</td>
</tr>
<tr>
<td>Net Weight</td>
<td>50 lb. (23 kg)</td>
</tr>
</tbody>
</table>

**Personal User Applications**

- Chassis/Frame Fabrication
- Aluminum Oil Pans
- Stainless Exhaust
- Weld Repair on Home Equipment
- Metal Art
- Vocational Training

**The Personal User’s TIG Machine.**

**Easy-to-understand operator interface.**
1. Power-up
2. Select material type
3. Set material thickness range—then weld! It's as easy as 1, 2, 3.

**Inverter-based, AC/DC power source** provides a more consistent welding arc while using less power.

**Fan-On-Demand™** power source cooling system operates only when needed, reducing noise, energy use and the amount of contaminants pulled through the machine.

**High frequency arc starting** provides non-contact arc initiation that reduces tungsten and material contamination.

**Auto-postflow** adjusts the length of postflow time based on the amperage setting, shielding your tungsten and eliminating the need to set the postflow time.

**Portable.** Whether it's in the shop, garage or at the race track, at 50 pounds they can be taken anywhere.

**Advanced squarewave AC** provides a fast freezing weld puddle and deeper penetration.

**Power source is warranted for 3 years, parts and labor. Original main power rectified parts are warranted for 5 years.**

**Comes complete with:**
- Power source with primary cord—50 A, 240 V plug (165 model) OR MVP™ plugs for 120 V and 240 V (180 model)
- Weldcraft™ A-150 (WP-17) 12.5-ft. (3.8 m) TIG torch with backcap, nozzle, 3/32-in. (2.4 mm) collet and collet body, and 2% ceriated tungsten
- RFCS-RJ45 remote foot control
- Work clamp with 12-ft. (3.7 m) cable
- Flow gauge regulator with hose

**Just supply argon gas, filler rod, gloves and helmet and you're ready to weld!**

**Both models include RFCS-RJ45 remote foot control and the Diversion 180 also includes our Multi-Voltage Plug (MVP™) which allows for connection to 120- or 240-volt receptacles without tools by choosing the plug that fits the receptacle and connecting it to the power cord.**

**Miller Electric Mfg. Co.**
An ITW Company
1635 West Spencer Street
P.O. Box 1079
Appleton, WI 54912-1079 USA
Phone: 866-931-9730
FAX: 800-637-2315
International Phone: 920-735-4554
International FAX: 920-735-4125

MillerWelds.com

**ISO 9001**

**REGISTERED QUALITY SYSTEM**
### Diversion™ Specifications

(Subject to change without notice.)

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Power</th>
<th>Welding Amperage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Output</th>
<th>KVA</th>
<th>KW</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diversion 165</td>
<td>230 VAC</td>
<td>10 – 165 A</td>
<td>60 A at 12.4 V, 100% duty cycle</td>
<td>8 A (.20)*</td>
<td>1.8 (.04)*</td>
<td>1.2 (.02)*</td>
<td>80</td>
<td>H: 17 in. (433 mm) W: 9.875 in. (251 mm) D: 23.875 in. (608 mm)</td>
<td>50 lb. (23 kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>150 A at 16 V, 20% duty cycle</td>
<td>23 A (.20)*</td>
<td>5.3 (.04)*</td>
<td>3.7 (.02)*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>165 A at 16.6 V, 15% duty cycle</td>
<td>25.5 A (.20)*</td>
<td>5.9 (.04)*</td>
<td>4.2 (.02)*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diversion 180</td>
<td>115 VAC</td>
<td>10 – 125 A</td>
<td>60 A at 12.4 V, 100% duty cycle</td>
<td>11.3 (.88)*</td>
<td>1.3 (.1)*</td>
<td>1.2 (.03)*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>125 A at 15 V, 35% duty cycle</td>
<td>26.5 (.88)*</td>
<td>3.1 (.1)*</td>
<td>3.0 (.03)*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>230 VAC</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>180 A at 17.2 V, 10% duty cycle</td>
<td>20.5 (.44)*</td>
<td>4.7 (.1)*</td>
<td>4.6 (.03)*</td>
<td></td>
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</tr>
</tbody>
</table>

*Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

*While idling.

### Diversion™ 165 Control Panel

1. Power On LED
2. Power Switch
3. Output Indicator LED
4. Material Thickness/Amperage Control
5. Material Switch

### Diversion™ 180 Control Panel

1. Digital Display
2. Output Indicator LED
3. Power Switch
4. Amperage Control
5. Material Selection Button
6. Material Thickness/Amperage Chart
**Performance Data**

**MVP™ Plugs for Diversion™ 180**

- **#219 258**
  For power cable 6-50P (240 V/50 A).
  Included with machine.

- **#219 261**
  For power cable 6-15P (120 V/15 A).
  Included with machine.

- **#219 259**
  For power cable 6-20P (120 V/20 A). Optional, not included with machine.

**Remote Controls**

- **RCCS-RJ Remote Fingertip Control**
  North/south rotary-motion contactor and current control for Diversion 165 and 180. Includes 14-foot (4.3 m) cord with RJ45 connector.

- **RFCS-RJ45**
  Remote foot control. Comes standard with Diversion models.

**Adapter Cord for RJ45 to 14-Pin**

- **#300 688**
  12-inch adapter cord to allow the Miller 14-pin industrial foot controls to be used with the Diversion 165 and 180.

**Genuine Miller® Accessories**

**Protection Cover**

- **#300 579**

**Running Gear/Cylinder Rack**

- **#301 239**
  Heavy-duty construction with 8-inch rubber rear wheels. Convenient front handles, cable holders and plastic consumable box. For gas cylinders no greater than 7 inches (178 mm) in diameter or 65 pounds (29.5 kg) in weight.

**TIG/Multitask Gloves**

- **#263 352** Small
- **#263 353** Medium
- **#263 354** Large
- **#263 355** X-Large
  Goat grain leather with dual-padded palm and wool back.

**TIG Gloves**

- **#263 345** X-Small (Women’s)
- **#263 346** Small (Women’s)
- **#263 347** Medium
- **#263 348** Large
- **#263 349** X-Large
  Completely unlined, goat grain leather with triple-padded palm.

**Weldcraft™ A-125 (WP-9) Torch Body**

- 125-amp air-cooled torch body. 13N Series consumables sold separately.

**#AK-150MFC Accessory Kit**

Allows welding operators to customize their standard A-150 (WP-17) TIG torch for their specific application. Kit converts into 28 different torch styles while using the existing cable. Features collets, collet bodies, nozzles, torch heads, handle and more.
## Ordering Information

<table>
<thead>
<tr>
<th>Power Source</th>
<th>Stock No.</th>
<th>Description</th>
<th>Qty.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diversion™ 165</td>
<td>#907 626</td>
<td>Single-phase, 240 V, 50/60 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diversion™ 180</td>
<td>#907 627</td>
<td>Single-phase, 120 and 240 V, 50/60 Hz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### MVP® Plugs for Diversion 180

<table>
<thead>
<tr>
<th>Description</th>
<th>Stock No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP 240 V 6-50P</td>
<td>#219 258</td>
<td>Used to connect power source to 6-50R receptacle (included with machine)</td>
</tr>
<tr>
<td>MVP 120 V 5-15P</td>
<td>#219 261</td>
<td>Used to connect power source to 5-15R receptacle (included with machine)</td>
</tr>
<tr>
<td>MVP 120 V 5-20P</td>
<td>#219 259</td>
<td>Used to connect power source to 5-20R receptacle (optional, not included with machine)</td>
</tr>
</tbody>
</table>

### Remote Controls

<table>
<thead>
<tr>
<th>Description</th>
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<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCCS-RJ</td>
<td>#301 146</td>
<td>Remote fingertip control (optional, works with Diversion 165 and 180)</td>
</tr>
<tr>
<td>RFCS-RJ45</td>
<td>#300 432</td>
<td>Remote foot control (included with Diversion 165 and 180)</td>
</tr>
<tr>
<td>Adapter Cord for RJ45 to 14-Pin</td>
<td>#300 688</td>
<td></td>
</tr>
</tbody>
</table>

### Accessories

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<tr>
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<td>Protective Cover</td>
<td>#300 579</td>
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<tr>
<td>Running Gear/Cylinder Rack</td>
<td>#301 239</td>
<td></td>
</tr>
<tr>
<td>TIG Welding Gloves</td>
<td></td>
<td>See page 3</td>
</tr>
<tr>
<td>Weldcraft™ A-125 (WP-9) Torch Body</td>
<td>#WP-9</td>
<td></td>
</tr>
<tr>
<td>AK-150MFC Accessory Kit</td>
<td>#AK-150MFC</td>
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</tr>
</tbody>
</table>

**Date:**

**Total Quoted Price:**