Diversion[™] 180



Quick Specs

Personal User Applications

Chassis/frame fabrication Aluminum oil pans Stainless exhaust Weld repair on home equipment Metal art Vocational training

Process

TIG (GTAW)

Input Power

115 and 230 V, 1-phase

Rated Output 150 A at 16 V, 20% duty cycle

Amperage Range 10-125 A (115 V)

10-180 A (230 V)

Max. Open-Circuit Voltage 80

Net Weight 50 lb. (23 kg)



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.





Includes RFCS-RJ45 remote foot control and multi-voltage plug (MVP™). MVP allows for connection to 120- or 240-volt receptacles without tools. Choose the plug that fits the receptacle and connect it to the power cord.



Power source is warranted for three years, parts and labor. Original main power rectified parts are warranted for five years.



Miller Electric Mfg. Co.

An ITW Welding Company 1635 West Spencer Street P.O. Box 1079 Appleton, WI 54912-1079 USA

Equipment Sales US and Canada

Phone: 866-931-9730 FAX: 800-637-2315

International Phone: 920-735-4554 International FAX: 920-735-4125







Specifications (Subject to change without notice.)





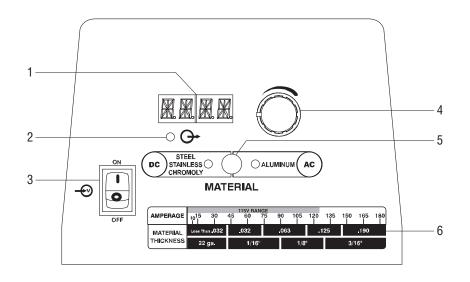


| Input Power | Welding Amp Range | Rated Output | Amps Input at Rated Output | KVA | KW | Max. Open- Circuit Voltage | Dimensions | Net Weight |
|----------------|----------------------|---------------------------------|-------------------------------|-----------|------------|-------------------------------|--|-------------------|
| 115 V | 10-125 A | 60 A at 12.4 V, 100% duty cycle | 11.3 (.88)* | 1.3 (.1)* | 1.2 (.03)* | 80 VDC | H: 17 in. (433 mm) W: 9.875 in. (251 mm) D: 23.875 in. (608 mm) | 50 lb. (23 kg) |
| | | 125 A at 15 V, 35% duty cycle | 26.5 (.88)* | 3.1 (.1)* | 3.0 (.03)* | | | |
| 230 V | 10-180 A | 60 A at 12.4 V, 100% duty cycle | 5.6 (.44)* | 1.3 (.1)* | 1.2 (.03)* | | | |
| | | 150 A at 16 V, 20% duty cycle | 16 (.44)* | 3.7 (.1)* | 3.6 (.03)* | | | |
| | | 180 A at 17.2 V, 10% duty cycle | 20.5 (.44)* | 4.7 (.1)* | 4.6 (.03)* | | | |



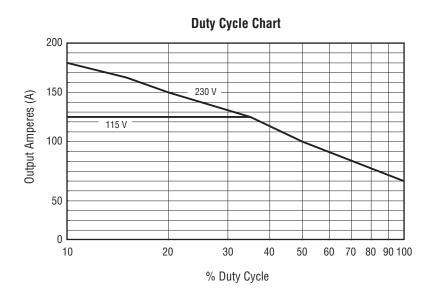
Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

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





^{*}While idling.

Genuine Miller® Accessories

MVP[™] Plugs



219258

For power cable 6-50P (240 V/50 A). Included with Diversion.



219261

For power cable 5-15P (120 V/15 A). Included with Diversion.



219259

For power cable 5-20P (120 V/20 A). Optional, not included with Diversion.

Remote Controls



RCCS-RJ45 Remote Fingertip Control 301146

North/south rotary-motion fingertip current and contactor control attaches to TIG torch using two hook-and-loop fasteners. Great for applications that require a finer amperage control. Includes 13.25-foot (4 m) cord with plug.



RFCS-RJ45 Remote Foot Control 300432

Foot pedal current and contactor control. Includes 14-foot (4.3 m) cord with plug. Included with Diversion.

RJ45 to 14-Pin Adapter Cord 300688

12-inch (305 mm) adapter cord allows Miller® 14-pin heavy-duty wired foot control (194744) or 14-pin wireless foot control (300429) to be used with the Diversion 180.



Protective Cover 300579



Running Gear/Cylinder Rack 301239

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 Gloves

263346 Small (Women's)

263347 Medium

263348 Large

263349 X-Large Completely unlined,

goat grain leather with triple-padded palm.



TIG/Multitask Gloves

263352 Small

263353 Medium

263354 Large

263355 X-Large

Goat grain leather with dual-padded palm and

wool back.



Weldcraft™ A-125 Torch Body WP-9

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



Weldcraft™ A-150 Torch Body WP-17

150-amp air-cooled torch body (included with Diversion 180). 10N Series consumables are sold separately.



TIG Torch Accessory Kit AK2C

For use with A-150 (WP-17) TIG torch. Includes one short back cap, one of each size (#4, #5, #6) alumina nozzle, and one of each size (.040, 1/16, 3/32 in.) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode.



TIG Torch Accessory Kit AK-150MFC

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

| Power Source | Stock No. | Description | Qty. | Price |
|---|-----------|---|------|-------|
| Diversion™ 180 | 907627 | Single-phase, 120 and 240 V, 50/60 Hz | | |
| MVP [™] Plugs | | | | |
| MVP 240 V 6-50P | 219258 | Used to connect power source to 6-50R receptacle (included with machine) | | |
| MVP 120 V 5-15P | 219261 | Used to connect power source to 5-15R receptacle (included with machine) | | |
| MVP 120 V 5-20P | 219259 | Used to connect power source to 5-20R receptacle (optional, not included with machine) | | |
| Remote Controls | | | | |
| RCCS-RJ45 | 301146 | Remote fingertip control (optional, not included with machine) | | |
| RFCS-RJ45 | 300432 | Remote foot control (included with machine) | | |
| RJ45 to 14-Pin Adapter Cord | 300688 | Used to connect 14-pin heavy-duty wired foot control (194744) or 14-pin wireless foot control (300429) to Diversion 180 | | |
| Accessories | | | | |
| Protective Cover | 300579 | | | |
| Running Gear/Cylinder Rack | 301239 | | | |
| TIG Welding Gloves | | See page 3 | | |
| Weldcraft™ A-125 (WP-9) Torch Body | WP-9 | | | |
| Weldcraft [™] A-150 (WP-17) Torch Body | WP-17 | | | |
| TIG Torch Accessory Kits | AK2C | For use with Weldcraft™ A-150 (WP-17) Torch | | |
| | AK-150MFC | For use with Weldcraft™ A-150 (WP-17) Torch | | |

Date: Total Quoted Price:

Distributed by:

