Comes Complete With:
- ICE-55C hand-held torch with 25 ft (7.6 m) or 50 ft (15.2 m) cable, or ICE-55CM machine-held torch with 50 ft (15.2 m) cable. Extra consumables supplied
- Heavy-duty work clamp with 25 ft (7.6 m) or 50 ft (15.2 m) cable
- 10 ft (3 m) power cord
- Spectrum® 2050 Air Plasma Cutting and Gouging

The ICE-55C torch includes a drag shield that attaches to the cup and holds the tip 1/8 in (3.2 mm) off the workpiece. This permits the operator to drag the torch on the workpiece while cutting at full output, which increases operator comfort and makes template cutting easier.

Auto-Line™ automatically links the Spectrum® 2050 to any primary input voltage from 208 to 575 V, single- or three-phase, 50 or 60 Hz.

Consumables storage compartment provides convenient access to consumables and parts.

Wind Tunnel Technology™ prevents abrasive dust and particles from damaging internal components. Also, the Fan-On-Demand™ cooling system only operates when needed. In dirty or dusty environments, this feature reduces the amount of airborne dust/dirt pulled through the unit.

Postflow cooling circuit cools consumables and torch with postflow air after you release the trigger. This feature extends life of the torch and consumables.

ICE-55C torch offers improved plasma flow characteristics for increased cutting speeds and longer consumable set life.

Rated Output
- 55 A at 110 VDC, 60% Duty Cycle, 3-Phase
- 55 A at 110 VDC, 50% Duty Cycle, 1-Phase

Cutting Capability
- Rated: 7/8 in (22.2 mm)
- Sever: 1-1/8 in (28.6 mm)

Weight
- With torch: 86 lb (39 kg)

Required Input Pressure/Flow
- 6 SCFM (170 L/min) at 90 PSI MIN (621 kPa)
- 120 PSI MAX (828 kPa)

Power source is warranted for 3 years, parts and labor. ICE torch is warranted for 1 year, parts and labor.

The Power of Blue.

A standard feature, the pilot arc switch in expanded metal mode allows operator to cut grates, chain link fence, and other perforated metals without retriggering the gun.

Portable, easy-to-carry unit weighs only 86 lb (39 kg).

Starts without high-frequency so it will not interfere with or damage controls or computers.

Built-in gas/air filter/regulator is housed inside the power source for protection from transportation damage. A standard air connection is also provided on the back panel for easy gas or air hookup.

Can be powered by any Miller engine drive with generator power (e.g. Bobcat™) or equivalent competitive equipment. See page 3 for engine drive compatibility and recommended settings.

True Blue 3-Year Warranty

Spectrum Plasma Cutters offer reliability and performance that others can’t match! See more at MillerWelds.com/reliable
Specifications (Subject to change without notice.)

<table>
<thead>
<tr>
<th>Rated Output</th>
<th>Max. Open-Circuit Voltage</th>
<th>Amps Input at Rated Output</th>
<th>Plasma Gas</th>
<th>Dimensions</th>
<th>Weight with Torch</th>
</tr>
</thead>
<tbody>
<tr>
<td>55 A at 110 VDC, 60% duty cycle, 3-Phase</td>
<td>280 VDC</td>
<td>21 20 10 10 9 8 7.6 (7.9 @ 575 V)</td>
<td>Air or Nitrogen only</td>
<td>H: 17 in (432 mm)</td>
<td>Net: 86 lb (39 kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>36 33 — — — 16 13 7.5 7.4</td>
<td></td>
<td>W: 12-1/2 in (318 mm)</td>
<td></td>
</tr>
<tr>
<td>55 A at 110 VDC, 50% duty cycle, 1-Phase</td>
<td></td>
<td></td>
<td></td>
<td>D: 20-3/4 in (527 mm)</td>
<td>Ship: 93.5 lb (42.4 kg)</td>
</tr>
</tbody>
</table>

Note: For any single- or three-phase voltage from 208 V to 575 V, the Amps Input at Rated Output is the same for 50 or 60 Hertz input power.

Mild Steel Cutting Capability (Thickness to scale.)

1/2 in (12.7 mm) at 27 IPM

Maximum Sever cut of
1-1/8 in (28.6 mm) at 3 IPM

Rated cut capacity is based on traveling approximately 10 inches per minute to achieve a steady, precise cut. This is the key rating that should meet or exceed your typical cutting thickness requirements.

Cutting Performance

To determine the maximum rated cutting thickness of mild steel, follow the line from the 10 IPM (inches per minute) point on the cutting chart. The point at which this line intersects the cutting curve determines the maximum recommended production cutting thickness of the unit.

Note: The rating is based on 10 IPM because this is the minimum speed at which the operator achieves a smooth, steady cut when using a hand-held torch.

Control Panel

1. Gas/Air Pressure Adjustment Control
2. Gas/Air Pressure Gauge
3. Torch Connection Receptacle
4. Output Control
5. Pilot Arc Mode Switch
6. Status and Troubleshooting Lights
### Engine Drive Compatibility

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Generator Power</th>
<th>Steel Quality Cut (Approximate)</th>
<th>Spectrum Output Amp Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bobcat™, Trailblazer® 304</td>
<td>11 kW</td>
<td>3/4 in</td>
<td>50 A, 240 V, full KVA plug</td>
</tr>
<tr>
<td>PipePro® 304, Big Blue® 300 Pro</td>
<td>12 kW</td>
<td>3/4 in</td>
<td>55 A, 240 V, full KVA plug</td>
</tr>
<tr>
<td>Big 40® CC/CV</td>
<td>15 kW (optional)</td>
<td>3/4 in</td>
<td>55 A, 240 V, full KVA plug</td>
</tr>
<tr>
<td>Big Blue® 500 CC/CV</td>
<td>20 kW (optional)</td>
<td>5/8 in</td>
<td>55 A, 240 V, full KVA plug</td>
</tr>
</tbody>
</table>

Note: Includes Spectrum 2050 models manufactured after (and including) serial number KJ283702. LP powered machines need to be derated 15%.

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### Genuine Miller Accessories

#### No. 30B Economy Running Gear and Cord Wrap #300 511
Economical running gear with angle for easy front panel access provides storage for gloves and tools.

#### Protective Cover #195 271
Mildew-resistant, odor-free, waterproof cover protects your machine’s finish.

#### Adapter Cord, Full KVA #300 517
Field NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240 V plug to Spectrum® 240 V plug.

#### RTI Filter and Bracket #300 491
Filter/dryer with automatic drain removes water, dirt and oil as small as one micron with 99.9% efficiency. Can be mounted on plasma cutter or on wall. Install as close as possible to point of air consumption.

#### ICE-55C Consumable Kit #222 941
Consumable kit includes 4 standard electrodes, 4 standard tips, 2 ext electrodes, 2 ext tips, 1 gouge tip, 1 gouge shield, 1 drag shield, 1 retaining cup, 3 o-rings and silicone grease.

#### Plasma Standoff Roller Guide #194 883
Helps maintain recommended standoff distance to maximize cutting performance and improve tip life.

#### Plasma Circle-Cutting Guide #195 981
Cut straight lines or circles up to 12 inch diameter with ease.

#### Suction/Magnetic Pivot Base #195 979
Add this to your cutting guide for convenient attachment to all flat surfaces. The extended arm accommodates holes up to 30 inch diameter.

#### Torch Cable Covers #231 867, #231 868
25 ft (7.6 m) and 50 ft (15.2 m) 240 V Plug #119 172
For connection to Bobcat, Trailblazer or Hobart Champion 10,000 with a minimum of 8 KVA auxiliary power.

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### Miller Service Parts Accessories

*The following accessories must be ordered from Miller Service Parts.*

#### RTI Replacement Filter Element #212 771
Replacement filter for #300 491.

#### Remote Pendant Control #180 605
Provides remote start and stop of the arc for the ICE-55CM machine-held torch.

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### Distributor

One Source Rentals • Sales • Service

www.onesourcerental.com
**Replacement Torch and Consumables**

ICE-55C Hand-Held Torch
- **#193 347** 25 ft (7.6 m)
- **#193 348** 50 ft (15.2 m)

ICE-55CM Machine-Held Torch
- **#193 349** 50 ft (15.2 m)

**Ordering Information**

<table>
<thead>
<tr>
<th>Power Source and Options</th>
<th>Stock No.</th>
<th>Description</th>
<th>Qty.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spectrum® 2050</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single-/three-phase, 208–575 VAC, 50/60 Hz</td>
<td>#903 777-01-2*</td>
<td>With ICE-55C, 25 ft (7.6 m) hand-held torch</td>
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<tr>
<td></td>
<td>#903 777-01-3*</td>
<td>With ICE-55C, 50 ft (15.2 m) hand-held torch</td>
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<td></td>
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<tr>
<td></td>
<td>#903 777-02-2*</td>
<td>With ICE-55CM, 50 ft (15.2 m) machine-held torch</td>
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<tr>
<td></td>
<td></td>
<td>(Machine torch package includes remote pendant control #180 605)</td>
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<tr>
<td><strong>Replacement Torches</strong></td>
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<tr>
<td>ICE-55C Hand-Held Torch</td>
<td>#193 347</td>
<td>25 ft (7.6 m). Order from Miller Service Parts</td>
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<tr>
<td></td>
<td>#193 348</td>
<td>50 ft (15.2 m). Order from Miller Service Parts</td>
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<tr>
<td>ICE-55CM Machine-Held Torch</td>
<td>#193 349</td>
<td>50 ft (15.2 m). Order from Miller Service Parts</td>
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<tr>
<td><strong>Consumables</strong></td>
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<td>No. 30B Economy Cart</td>
<td>#300 511</td>
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<tr>
<td>Protective Cover</td>
<td>#195 271</td>
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<td></td>
<td></td>
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<tr>
<td>Adapter Cord, Full KVA</td>
<td>#300 517</td>
<td>Adapts engine drive 120/240 V plug to Spectrum® 240 V plug</td>
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<tr>
<td>RTI Filter and Bracket</td>
<td>#300 491</td>
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</tr>
<tr>
<td>RTI Filter Replacement Element</td>
<td>#212 771</td>
<td>For RTI filter #300 491. Order from Miller Service Parts</td>
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<tr>
<td>Remote Pendant Control</td>
<td>#180 605</td>
<td>Order from Miller Service Parts</td>
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<tr>
<td>ICE-55C Consumable Kit</td>
<td>#222 941</td>
<td>See page 3 for contents. Order from Miller Service Parts</td>
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<tr>
<td>Plasma Standoff Roller Guide</td>
<td>#194 883</td>
<td>Order from Miller Service Parts</td>
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<tr>
<td>Plasma Circle-Cutting Guide</td>
<td>#195 981</td>
<td>Order from Miller Service Parts</td>
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<tr>
<td>Suction/Magnetic Pivot Base</td>
<td>#195 979</td>
<td>Order from Miller Service Parts</td>
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<td>Torch Cable Covers</td>
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<td>See page 3. Order from Miller Service Parts</td>
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<tr>
<td>240 V Plug</td>
<td>#119 172</td>
<td>Order from Miller Service Parts</td>
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<tr>
<td>In-Line Air Filter Kit</td>
<td>#228 926</td>
<td>Order from Miller Service Parts</td>
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<tr>
<td>In-Line Air Filter Replacement Element</td>
<td>#228 928</td>
<td>Order from Miller Service Parts</td>
<td></td>
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<tr>
<td>MIG/Metalworker Gloves</td>
<td></td>
<td>See page 3. Order from Miller Service Parts</td>
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</tbody>
</table>

**Date:**

**Total Quoted Price:**

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

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**Distributed by:**

[Miller](http://www.onesourcerental.com)