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Coolmate™ Series

Coolant Systems

QUICK SPECS

Light/Heavy Industrial Applications
Manufacturing
Aerospace
Automotive
Tube mills
Automation

Processes
TIG (GTAW)
MIG (GMAW)
Plasma cutting
Resistance welding

Input Power 1-phase power

Input Voltage 120 or 240 V, 50/60 Hz

Max. Cooling Capacity 11,600–17,094 Btu/hr.

Closed-loop design with radiator reduces coolant temperatures and prevents the system from overheating. Closed-loop design also recirculates the coolant through a fan-cooled heat exchanger.

Rustproof coolant reservoir molded of polyethylene for durability and corrosion resistance.

Standard inlet/outlet torch fittings are compatible with TIG and MIG torches having standard 5/8-inch 18 left-hand fittings.

10-foot (3 m) power cords are longer than most power cords in the industry — providing the extra length when required.

Compatible with Miller® coolants and are ideal for warm and cold weather conditions, while providing HF or corrosion protection.

TRUE BLUE® 1 YR. WARRANTY

Coolant systems are warrantied for one year, parts and labor.

Miller®

Miller Electric Mfg. LLC
An ITW Welding Company
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Appleton, WI 54912-1079 USA

Equipment Sales US and Canada
Phone: 866-931-9730
International Phone: 920-735-4554

MillerWelds.com

Certified System ISO 9001 Quality

Specifications (Subject to change without notice.)

1 Phase

MODEL	MOTOR INPUT VOLTAGE	MAXIMUM CURRENT DRAW 50 HZ	60 HZ	MAXIMUM COOLING CAPACITY*	RATED COOLING CAPACITY**	TANK CAPACITY	DIMENSIONS	NET WEIGHT WITHOUT COOLANT
Coolmate 1S	120 V, 50/60 Hz	0.7 A	0.7 A	2,100 W (7,100 Btu/hr.) 3.4 qt./min. (3.2 L/min.)	1,140 W (3,890 Btu/hr.) 1.1 qt./min. (1 L/min.)	1.0 gal. (3.8 L)	H: 7.813 in. (198 mm) W: 11.28 in. (289 mm) D: 24 in. (610 mm)	25 lb. (11 kg)
	240 V, 50/60 Hz	0.4 A	0.4 A					
Coolmate 1.3 **CE**	115 V, 50/60 Hz	5.9 A	4.7 A	3,400 W (11,600 Btu/hr.) 3.8 qt./min. (3.6 L/min.)	1,330 W (4,540 Btu/hr.) 1.1 qt./min. (1 L/min.)	1.3 gal. (4.9 L)	H: 11.38 in. (289 mm) W: 10.38 in. (264 mm) D: 24.25 in. (616 mm)	46 lb. (21 kg)
Coolmate 3 **CE**	115 V, 50/60 Hz	5.9 A	4.7 A	3,820 W (13,000 Btu/hr.) 4.2 qt./min. (4.0 L/min.)	1,420 W (4,840 Btu/hr.) 1.1 qt./min. (1 L/min.)	3 gal. (11.4 L)	H: 13.25 in. (337 mm) W: 12.25 in. (311 mm) D: 23.25 in. (584 mm)	40 lb. (18 kg)
	230 V, 50/60 Hz	2.5 A	3.0 A					
Coolmate PRO 4 **CE**	120 V, 50/60 Hz	1.2 A	1.2 A	5,010 W (17,094 Btu/hr.) 3.29 qt./min. (3.12 L/min.)	2,370 W (8,086 Btu/hr.) 1.0 qt./min. (0.95 L/min.)	4 gal. (15.1 L)	H: 11.907 in. (302 mm) W: 14.081 in. (358 mm) D: 27.306 in. (694 mm)	46.5 lb. (21 kg)
	240 V, 50/60 Hz	0.7 A	0.7 A					

**Maximum cooling capacity is based on a 25° Celsius (77°F) environment at maximum flow with a 65° Celsius (117°F) coolant temperature rise.*
***Rated IEC standard cooling capacity is based on a 25° Celsius (77°F) environment at a flow of one liter per minute with a 40° Celsius (72°F) coolant temperature rise.*

All models are certified by Canadian Standards Association to both the Canadian and U.S. Standards.

All CE models conform to the applicable parts of the IEC 60974 series of standards.

Product Descriptions

Coolmate™ 1S

301856
120/240 V, 50/60 Hz

1.0-gallon cooler designed for water-cooled torches up to 250 amps.*

- Designed to integrate with Syncrowave® 212 (also accepts Multimatic® 220 AC/DC — no cooler power)
- Coolant fill spout is conveniently located for easy access
- Energy-efficient motor and pump
- 120- or 240-volt input power (includes 120-volt power cord and a jumper cord for use with the Syncrowave 212)
- Weighs 25 pounds (11 kg) dry
- Polyethylene-molded coolant tank and filler spout are rustproof
- Efficient fin-and-tube heat exchanger

Coolmate™ 1.3

301616
120 V, 50/60 Hz, **CE**

301617
120 V, 50/60 Hz, **CE**
with quick connect

Light-industrial 1.3-gallon cooler designed for water-cooled torches on power sources rated up to 280 amps.*

- Designed to integrate with Dynasty 210/300 and Maxstar 210/280 models
- Compact horizontal design allows stacking and convenient mounting
- Weighs 46 pounds (21 kg) dry
- Equipped with power-on indicator light on front panel
- Filter and coolant filling spout are conveniently located for easy access
- Fluid level sight window
- Polyethylene-molded coolant tank and filler spout are rustproof
- Factory-set pressure-relief valve (55 psi) maintains consistent pressure during operation
- Thermally protected 1/4 hp motor guards against overheating
- Efficient fin-and-tube heat exchanger
- Brass-body positive-displacement rotary vane pump provides consistent coolant flow and pressure rating with long pump-life expectancy

**May vary with torch design and cable length.*

Product Descriptions

Coolmate™ 3

043007
120 V, 50/60 Hz, **CE**

043008
240 V, 50/60 Hz, **CE**

Economical 3-gallon cooler designed for water-cooled torches rated up to 500 amps.*

- Compact horizontal design allows stacking and convenient mounting
- Midsize cooler weighs 40 pounds (18 kg) dry
- On/off power switch, "paddle wheel" coolant flow indicator, filter and coolant filling spout are all conveniently located on front panel
- Polyethylene-molded coolant tank, fan shroud and filler spout are rustproof
- Factory-set pressure-relief valve (55 psi) maintains consistent pressure during operation
- Thermally protected 1/4 hp motor guards against overheating
- Efficient fin-and-tube heat exchanger
- Brass-body positive-displacement rotary vane pump provides consistent coolant flow and pressure rating with long pump-life expectancy

Note: 240 V model 043008 does not include power plug.

Coolmate™ PRO 4

301905
120/240 V, 50/60 Hz, **CE**

301911
120/240 V, 50/60 Hz, **CE**
with quick connect

Industrial 4-gallon cooler designed for water-cooled torches rated up to 600 amps.*

- Designed to integrate with Dynasty® 400/800 and Maxstar® 400
- Horizontal design allows stacking or convenient mounting onto Runner™ carts
- Weighs only 46.5 pounds (21 kg) dry
- Polyethylene-molded coolant tank, fan shroud and filler spout are rustproof
- Efficient fin-and-tube heat exchanger
- Coolant fill spout is conveniently located for easy access
- Energy-efficient motor and pump
- 120- or 240-volt input power
- Equipped with internal check valves to prevent coolant flow when torch is disconnected
- Brass-body positive-displacement rotary vane pump provides consistent coolant flow and pressure rating with long pump-life expectancy

**May vary with torch design and cable length.*

Genuine Miller® Accessories

Water-Cooled TIG Torch Adapters

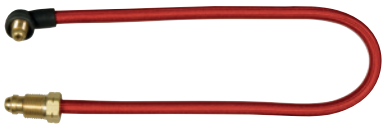
50 mm Dinse-Style with Water Return Line
195377
For Dynasty 210/300/400, Maxstar 210/280/400 and Syncrowave 300/400.
Used with all Weldcraft™ water-cooled torches.

With gas and water return line.

50 mm Flow Thru Dinse for Water Cooler
301884
Adapts machines with flow through gas valves to coolers.

50 mm Thread-Lock-Style 225028
For Dynasty 800. Used with all Weldcraft™ water-cooled torches.

Water-Cooled TIG Block Adapter 45V11
For Miller power sources with stud-type output terminals.



Replacement Water Hose for Dinse-Style Adapter
222809 18 in. (457 mm)

Water Hoses and Connectors

Water Hose Extension 40V76R6
6 ft. (1.8 m). Hose with two male 5/8-inch 18 LH thread connections.

Water Coupler 057020
Brass hose fitting with 5/8-inch 18 LH thread.

Weldcraft™ Gas Hose Quick Connect QRG
Sold individually. Allows for quick connection and removal of torch shielding gas hoses.

Weldcraft™ Water Hose Quick Connect QRW
Sold individually. Allows for quick connection and removal of torch coolant hoses.

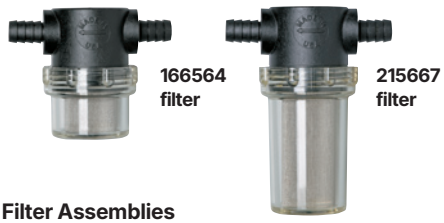
Coolants

Must be ordered in quantities of four. One-gallon recyclable plastic bottle. Miller coolants contain a base of ethylene glycol and deionized water to protect against freezing to -37° Fahrenheit (-38°C) or boiling to 227° Fahrenheit (108°C).

Low-Conductivity Coolant (clear, pre-mixed) 043810
For TIG and MIG applications. NOT for use in push-pull systems or systems where aluminum is in coolant path/circuit.

Aluminum-Protecting Coolant (green, pre-mixed) 043809
Primarily used in push-pull systems where aluminum is in coolant path/circuit and high frequency is NOT used.

Replacement Filter Assemblies



166564 filter **215667 filter**

Filter Assemblies
166564 *For Coolmate 1.3, 3 and 3X*
215667 *For Coolmate 3.5*

Filter Strainer 146249
For Coolmate 4. Located inside pump assembly. See owner's manual.

Water-Cooled TIG Torch Adapters

W-250 (WP-20) Torch Kit 300185

- Weldcraft™ W-250 25-foot (7.6 m) TIG torch with Dinse-style connector
- Torch cable cover
- Work clamp with 15-foot (4.6 m) 1/0 cable and Dinse-style connector
- Flowmeter regulator
- Gas hose (regulator to machine)
- AK4GL torch accessory kit includes short back cap, nozzles, gas lenses, collets and 2% ceriated tungsten electrodes (1/16, 3/32 and 1/8 inch)

W-375 Torch Kit 301268

- Weldcraft™ W-375 25-foot (7.6 m) TIG torch with Dinse-style connector
- Torch cable cover
- Work clamp with 15-foot (4.6 m) 1/0 cable and Dinse-style connector
- Flowmeter regulator
- Gas hose (regulator to machine)
- AK4GL torch accessory kit includes short back cap, nozzles, gas lenses, collets and 2% ceriated tungsten electrodes (1/16, 3/32 and 1/8 inch)

W-280 (WP-280) Torch Kit 300990

- Weldcraft™ W-280 25-foot (7.6 m) TIG torch with Dinse-style connector
- Torch cable cover
- Work clamp with 15-foot (4.6 m) 1/0 cable and Dinse-style connector
- Flowmeter regulator
- Gas hose (regulator to machine)
- AK4GL torch accessory kit includes short back cap, nozzles, gas lenses, collets and 2% ceriated tungsten electrodes (1/16, 3/32 and 1/8 inch)

W-400 (WP-18SC) Torch Kit 300186

- Weldcraft™ W-400 25-foot (7.6 m) TIG torch with thread-lock connector
- Torch cable cover
- Work clamp with 12-foot (3.7 m) 4/0 cable with thread-lock connector
- Flowmeter regulator
- Gas hose (regulator to machine)
- AK18C torch accessory kit includes short back cap, nozzles, collets, collet bodies and 2% ceriated tungsten electrodes (3/32, 1/8 and 5/32 inch)

Typical Coolmate™ Usages

Coolmate™ 1S shown with Syncrowave® 212

Coolmate 1.3 shown with Dynasty® 300 TIGRunner®

Coolmate 3 shown with XMT® 350 MIGRunner™

Coolmate PRO 4 shown with XMT® 350 MIGRunner™

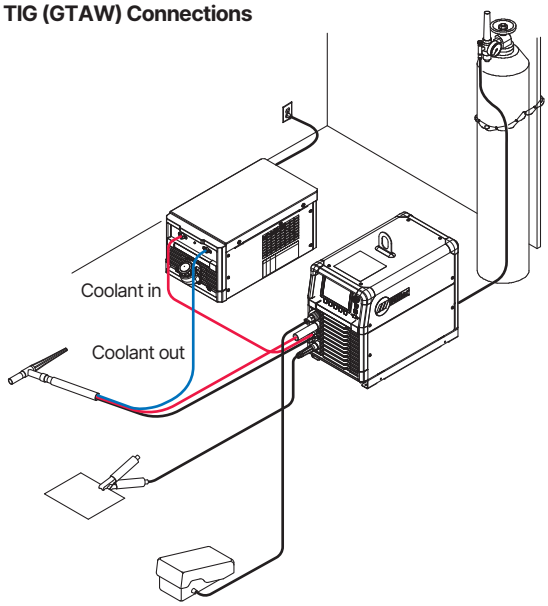
Coolmate PRO 4 shown with Dynasty® 400 TIGRunner® and 800 TIGRunner®

Typical Coolmate™ Usages

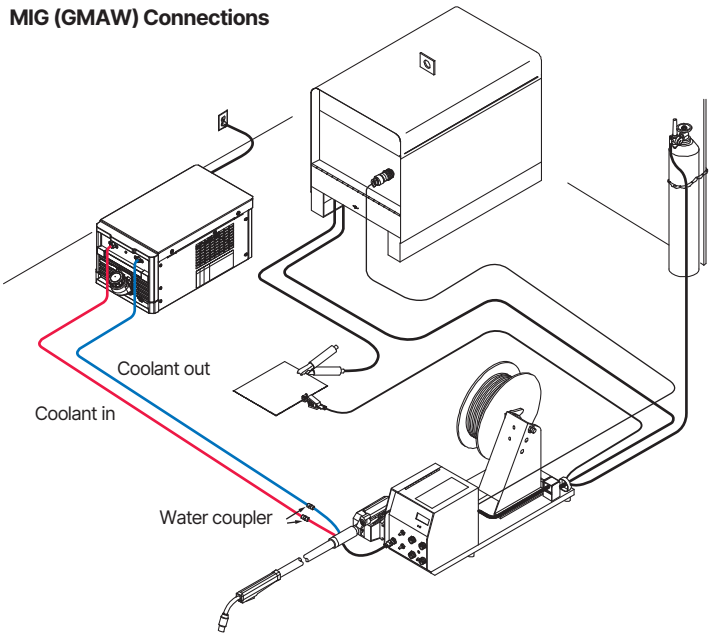
Coolmate PRO 4 shown with Intellx™ Elite Swingarc™

Typical Coolmate™ Connections

TIG (GTAW) Connections



MIG (GMAW) Connections



Ordering Information

EQUIPMENT AND OPTIONS	STOCK NO.	DESCRIPTION	QTY.	PRICE
Coolmate™ 1S	**301856**	120/240 V, 50/60 Hz. *Requires coolant*		
Coolmate™ 1.3	**301616** **301617**	120 V, 50/60 Hz, **CE**. *Requires coolant* 120 V, 50/60 Hz, **CE** with quick connect. *Requires coolant*		
Coolmate™ 3	**043007** **043008**	120 V, 50/60 Hz, **CE**. *Requires coolant* 240 V, 50/60 Hz, **CE**. *Requires coolant*		
Coolmate™ PRO 4	**301905** **301911**	120/240 V, 50/60 Hz, **CE**. *Requires coolant* 120/240 V, 50/60 Hz, **CE** with quick connect. *Requires coolant*		
Weld Accessories				
Water-Cooled TIG Torch Adapters	**195377** **301884** **225028** **45V11** **222809**	50 mm Dinse-style with water return line 50 mm flow thru Dinse for water cooler 50 mm thread-lock-style Water-cooled TIG block 18 in. (457 mm) replacement water hose		
Water Hose Extensions	**40V76R6**	6 ft. (1.8 m) hose with two male 5/8 in. 18 LH thread connections		
Water Coupler	**057020**	Brass hose fitting with 5/8 in. 18 LH thread		
Weldcraft™ Quick Connects (sold individually)	**QRG** **QRW**	For gas hoses For water hoses		
Low-Conductivity Coolant (clear, pre-mixed) (must be ordered in quantities of four)	**043810**	1-gallon plastic bottle. For TIG and MIG applications. NOT for push-pull systems or where aluminum is in coolant path/circuit		
Aluminum-Protecting Coolant (green, pre-mixed) (must be ordered in quantities of four)	**043809**	1-gallon plastic bottle. For push-pull systems where aluminum is in coolant path/circuit and high frequency is NOT used		
Filter Assemblies	**166564** **215667**	For use with Coolmate 1.3 and 3 For use with Coolmate 3.5		
Filter Strainer	**146249**	For use with Coolmate 4		
Torch Kits	**300185** **300990** **301268** **300186**	250 A with W-250 (WP-20) water-cooled torch 280 A with W-280 (WP-280) water-cooled torch 375 A with W-375 water-cooled torch 400 A with W-400 (WP-18SC) water-cooled torch		

DATE: TOTAL QUOTED PRICE:

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