OM-628

2009-08

CE And Non-CE Models

Coolmate™ 3

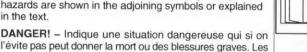
1. Safety Symbol Definitions

sont expliqués dans le texte.



DANGER! – Indicates a hazardous situation which, if not avoided, will result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.

dangers possibles sont montrés par les symboles joints ou



Have only trained and qualified persons install, operate, or service this unit. Call your distributor if you do not understand the directions. For WELDING SAFETY and EMF information, read wire feeder and welding power source manuals.

L'installation, l'exploitation et l'entretien de cet appareil doivent être confiés uniquement à des personnes qualifiées et convenablement formées. S'adresser à un distributeur si l'on ne comprend pas les directives. Pour des renseignements ayant trait à la SÉCURITÉ lors du soudage et aux champs électromagnétiques, consulter les manuels traitant les dévidoirs et les sources de courant pour le soudage.



Indicates a hazardous situation which, if not avoided, could result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.



Beware of moving parts.

Attention! Pièces en mouvement.

Indique une situation dangereuse qui si on l'évite pas peut donner la mort ou des blessures graves. Les dangers possibles sont montrés par les symboles joints ou sont expliqués dans le texte.



Indicates statements not related to personal injury. Indique des déclarations pas en relation avec des blessures personnelles.



Wear safety glasses with side shields.

Porter des lunettes de sécurité avec protections latérales.



Indique des instructions spécifiques.

Indicates special instructions.

Beware of electric shock from wiring.

Attention! Risque d'électrocution due au contact avec des fils



Recycle or dispose of used coolant in an environmentally safe way.

Recycler ou éliminer tout liquide de refroidissement usé conformément aux méthodes prescrites pour assurer la protection de l'environnement.

2. EMF Information

Electric current flowing through any conductor causes localized electric and magnetic fields (EMF). Welding current creates an EMF field around the welding circuit and welding equipment. EMF fields may interfere with some medical implants, e.g. pacemakers. Protective measures for persons wearing medical implants have to be taken. For example, access restrictions for passers—by or individual risk assessment for welders. All welders should use the following procedures in order to minimize exposure to EMF fields from the welding circuit:

- Keep cables close together by twisting or taping them, or using a cable cover.
- Do not place your body between welding cables. Arrange cables to one side and away from the operator.
- Do not coil or drape cables around your body.

- Keep head and trunk as far away from the equipment in the welding circuit as possible.
- Connect work clamp to workpiece as close to the weld as possible.
- 6. Do not work next to, sit or lean on the welding power source.
- Do not weld whilst carrying the welding power source or wire feeder.

About Implanted Medical Devices:

Implanted Medical Device wearers should consult their doctor and the device manufacturer before performing or going near arc welding, spot welding, gouging, plasma arc cutting, or induction heating operations. If cleared by your doctor, then following the above procedures is recommended.

3. Important Information Regarding CE Products (Sold Within The EU)



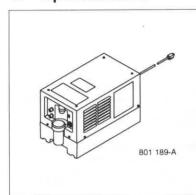
This equipment shall not be used by the general public as the EMF limits for the general public might be exceeded during welding.

This equipment is built in accordance with EN 60974–1 and is intended to be used only in an occupational environment (where the general public access is prohibited or regulated in such a way as to be similar to occupational use) by an expert or an instructed person.

Wire feeders and ancillary equipment (such as torches, liquid cooling systems and arc striking and stabilizing devices) as part of the welding circuit may not be a major contributor to the EMF. See the Owner's Manuals for all components of the welding circuit for additional EMF exposure information.

- The EMF assessment on this equipment was conducted at 0.5 meter.
- At a distance of 1 meter the EMF exposure values were less than 20% of the permissible values.

4. Specifications



Recirculating Coolant System For Water-Cooled GTAW Torches And GMAW Guns

Use With Guns/Torches Rated Up To 600 Amperes

IP Rating: 23 - Not Intended For Use In Heavy Rain, Or Near Splashing Water

3 gal (11.4 L) Coolant Tank Capacity;

Maximum Cooling Capacity: 3,820 W (13,000 BTU/hr) @ 4.2 qt/min (4.0 L/min)

IEC Cooling Capacity: 1,420 W (4,840 BTU/hr) @ 1.1 qt/min (1 L/min)

IEC Cooling Capacity States That The Water Inlet Temperature Can Not Exceed 40° C Above Ambient Temperature At A 1l/ Min Flow Rate.

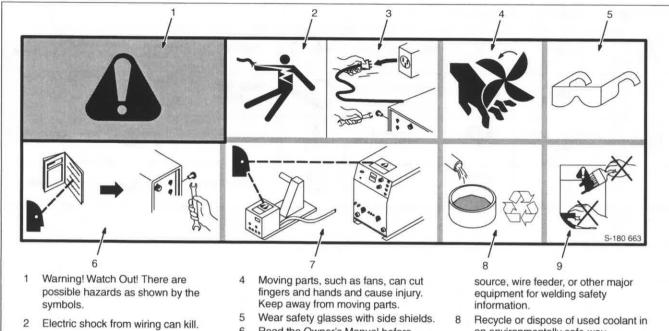
Dimensions: 23 in. (584 mm) Long, 12 in. (305 mm) Wide, 13-1/4 in. (337 mm) High Weight: 39 lb (18 kg)

115 Volt Models Use 5.9 Amperes, 50/60 Hertz, Single-Phase Input Power 230 Volt Models Use 3 Amperes, 50/60 Hertz, Single-Phase Input Power

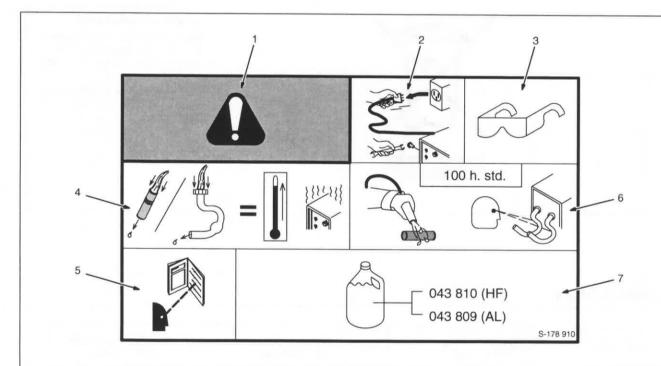
5. Serial Number And Rating Label Location

The serial number and rating information for this product is located on the back panel. Use rating label to determine input power requirements and/or rated output. For future reference, write serial number in space provided on cover of this manual.

6. Warning Label Definitions For CE Products



- Disconnect input plug or power before working on machine.
- Read the Owner's Manual before working on this machine.
- Read the labels on the welding power
- an environmentally safe way.
- Do not remove or paint over (cover) the label.



- Warning! Watch Out! There are possible hazards as shown by the symbols.
- Disconnect input plug or power before working on machine.
- Wear safety glasses with side shields.
- Plugged filter or hoses cause overheating and damage.
- Read Owner's Manual.
- Check and clean filter every 100 hours; also check condition of hoses.
- Use Low Conductivity Coolant No. 043

810 for High-Frequency assisted or Gas Tungsten Arc Welding applications. Use Aluminum Protecting Coolant No. 043 809 where coolant contacts aluminum parts or for Gas Metal Arc Welding applications or where High Frequency is not used.

4/96

7. Symbols And Definitions

IF Some symbols are found only on CE products.

A	Amperes	\sim	Alternating Current	← ∨	Voltage Input	(1)	Circulating Unit With Coolant Pump
V	Volts	-	Water (Coolant) Input		Water (Coolant) Output	10	Line Connection
1	Protective Earth (Ground)	IP	Degree Of Protection	I ₁	Primary Current	Hz	Hertz
1	On	0	Off	U ₁	Primary Voltage	1~	Single Phase

8. WEEE Label (For Products Sold Within The EU)



Do not discard product (where applicable) with general waste.

Reuse or recycle Waste Electrical and Electronic Equipment (WEEE) by disposing at a designated collection facility.

Contact your local recycling office or your local distributor for further information.

9. Coolant Chart

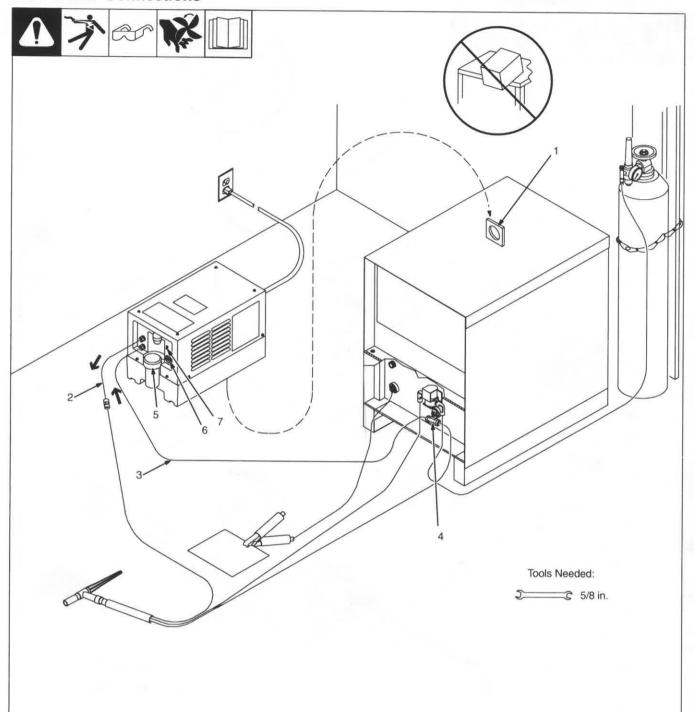
Application	GTAW Or Where HF* Is Used	GMAW Or Where HF* Is Not Used	Where Coolant Contacts Aluminum Parts
Coolant	Low Conductivity Coolant No. 043 810**; Distilled Or Deionized Water OK Above 32° F (0° C)	Low Conductivity Coolant No. 043 810**; Or Aluminum Protecting Coolant No. 043 809**; Distilled Or Deionized Water OK Above 32° F (0° C)	Aluminum Protecting Coolant No. 043 809**

^{*}HF: High Frequency Current

NOTICE – Use of any coolant other than those listed in the table voids the warranty on any parts that come in contact with the coolant (pump, radiator, etc.).

^{**}Coolants 043 810 and 043 809 protect to -37° F (-38°C) and resist algae growth.

10. GTAW Connections



801 190-B



Do not move or operate unit where it could tip.

1 Lift -Eye

If placing cooling unit on welding power source, slots are provided in bottom of unit so it fits over lift-eye.

To prevent overheating, make sure cooling unit is positioned so airflow is not restricted.

NOTICE – If welding power source has a water valve, do not connect hoses to water valve. Connect hoses as shown.

2 Coolant Out Hose

3 Coolant In Hose

Fittings have 5/8-18 left-hand threads. Connect hoses with proper fittings as shown.

4 TIG Block

Customer supplied for use with some welding power sources, or use proper connector supplied with welding power source.

5 Coolant Tank Cap

Use table in Section 9 to select proper coolant, and fill tank. Maintain coolant level at approximately 1 in (25 mm) below top of filler neck.

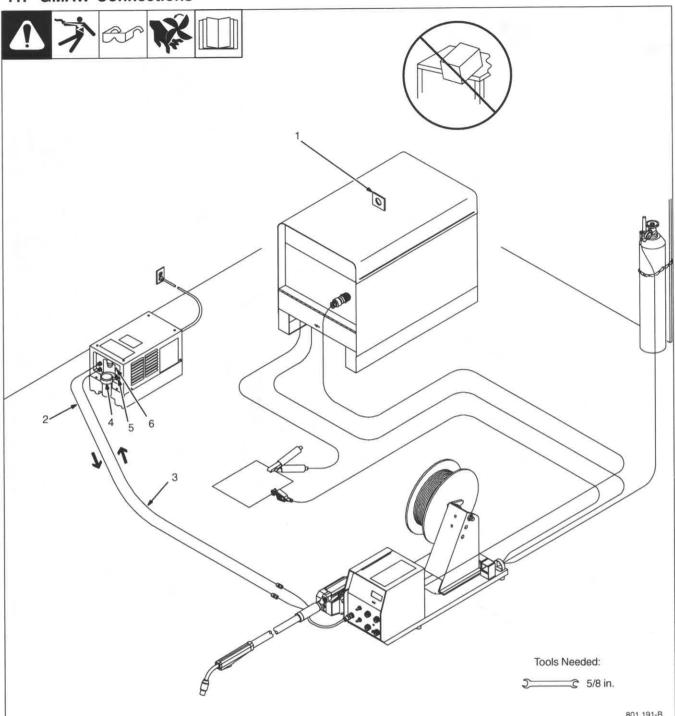
6 Flow Indicator

7 Power Switch

Operation:

Turn power switch On. Flow indicator spins to indicate that at least 0.53 qt/min (0.5 L/min) of coolant is flowing.

11. GMAW Connections



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Lift -Eye

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- Coolant Out Hose
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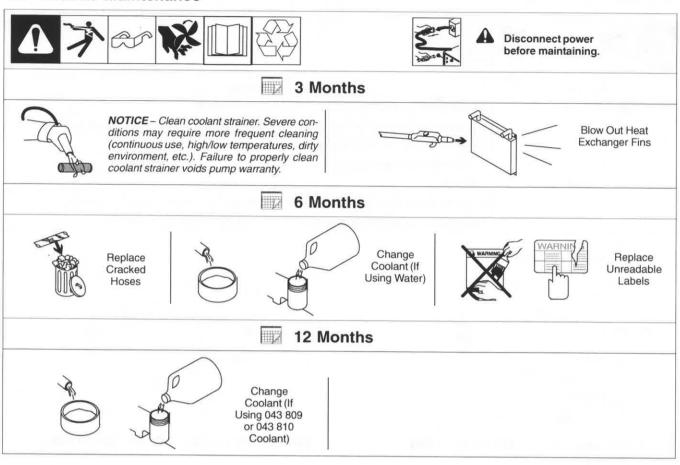
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- 5 Flow Indicator
- Power Switch 6

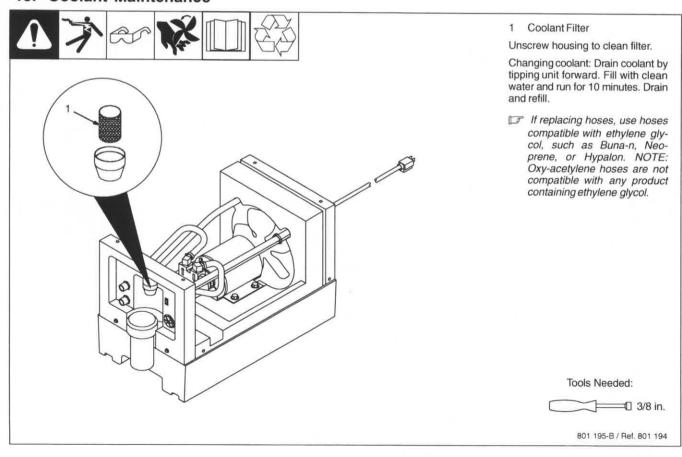
Operation:

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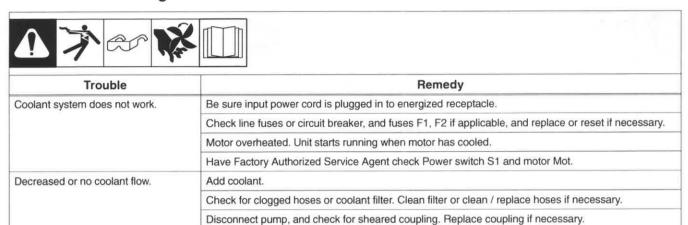
12. Routine Maintenance

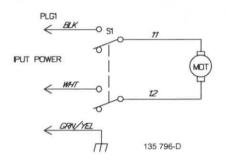


13. Coolant Maintenance

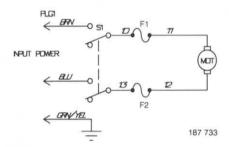


14. Troubleshooting





Circuit Diagram For 115 And 230 Volt



Circuit Diagram For 230 Volt (CE Models)

15. Parts List

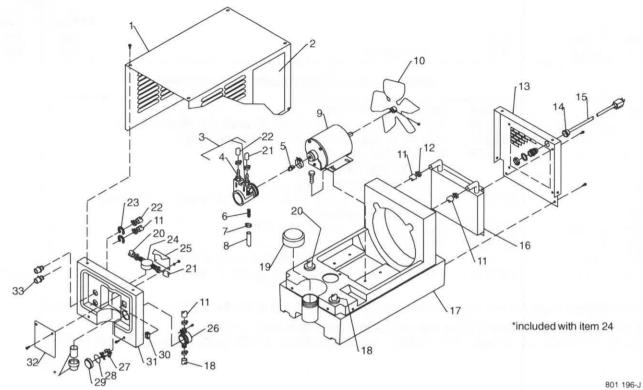


Figure 15-1. Complete Assembly

					antity odel
				043 007	043 008
Item	Dia.	Part		115	230
No.	Mkgs.	No.	Description	Volt	Volt

Figure 15-1Complete Assembly.

	the transfer of the second sec
1	WRAPPER 1 1
2 192 449	LABEL, warning general precautionary 1 1
3 197 361	PUMP COOLANT w/V-BAND, (includes) 1 1
4	FITTING, hose brs barbed M 3/8tbg x 3/8
5 134 795	COUPLER, drive pump 1
6 196 990	FITTING, hose brs barbed 1 1
7 089 120	CLAMP, hose .375 – .450 clip 1
	HOSE, nprn brd no 1 x .250ID 1
	MOTOR, 1/4hp 230VAC 50/60Hz 1425/1725rpm (230V model) 1
	MOTOR, 1/4hp 115VAC 50/60Hz 1425/1725rpm (115V model) 1
10 166 570	BLADE, fan 9.000 5wg 38deg .500 bore cw (setscrew included) . 1 1
	TUBING, PVC .375 x .625 OD X 18.000
	CLAMP, Hose .250625 Clp Dia
	PANEL, rear 1 1
14 139 042	BUSHING, strain relief .270/.480 id x .804 mtg hol
15 PLG1 192 458	CABLE, power 11FT 16ga 3c (230V model) 1
	CABLE, power 10ft 16ga (115V model)
	CABLE, pwr 10ft (230V CE Models) 1
	RADIATOR, heat exchanger 1 1
17 168 267	TANK COOLANT 1 1
18 174 043	TUBING, PVC .375 ID x .625 OD x 1.250
19 166 608	CAP, tank screw-on w/vent 1
20 182 994	TUBE, pick-up coolant 1
	TUBING, PVC .375 ID x .625 OD x 10.000 1 1
	HOSE, nprn brd No. 1 x .375 ID x 10.50 black 1 1
	RING, ring ext .500 shaft grv x .042thk
24 166 564	FILTER, in-line 1 1

					uantity Model
H and a second	D:	D- 4			043 008
Item No.	Dia. Mkgs.	Part No.	Description	115 Volt	Volt
			Figure 15-1Complete Assembly (continued).	
			. CLIP, filter mounting		
* * * * * * *	F1, F2 .	011 116	. FUSE, mintr gl slo-blo 7A 250V (230	v CE Models only)	2

	25	
215 279 INDICATOR, flow (includes) 1 1 . 26 HOUSING, flow indicator 1 1 . 27 PADDLE, flow indicator 1 1 . 28 166 566 O-RING, 1.301 ID x .070CS (may be bought separately) 1 1 . 29 LENS, flow indicator 1 1 . 30 S1 177 396 SWITCH, rocker DPST 15A 250VAC 1 1 . 31 177 399 PANEL, front 1 1 . 32 NAMEPLATE, (order by model and serial number) 1 1	F1, F2 011 116 FUSE, mintr gl slo-blo 7A 250V (230	V CE Models only) 2
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. 27 . PADDLE, flow indicator 1 1 . 28 . 166 566 . O-RING, 1.301 ID x .070CS (may be bought separately) 1 . 1 . 29 . LENS, flow indicator 1 . 1 . 30 S1 . 177 396 SWITCH, rocker DPST 15A 250VAC . 1 . 1 . 31 . 177 399 PANEL, front . 1 . 1 . 32 . NAMEPLATE, (order by model and serial number) . 1 . 1		
	26 HOUSING, flow indicator	
	27 PADDLE, flow indicator	
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31	29 LENS, flow indicator	
32 NAMEPLATE, (order by model and serial number) 1 1	30 S1 177 396 SWITCH, rocker DPST 15A 250VAC	2 1 1
	31 177 399 PANEL, front	
33 166 571 FITTING, coolant barbed 3/8tbg 5/8-18 female 2 2	32 NAMEPLATE, (order by model and s	serial number)1
	33 166 571 FITTING, coolant barbed 3/8tbg 5/8-	-18 female 2 2

⁺When ordering a component originally displaying a precautionary label, the label should also be ordered.

^{*}Hose clamps (2 per hose) should be ordered for any hose removal or repair.

BE SURE TO PROVIDE MODEL AND SERIAL NUMBER WHEN ORDERING REPLACEMENT PARTS.



DECLARATION OF CONFORMITY

for European Community (CE marked) products.

MILLER Electric Mfg. Co., 1635 Spencer Street, Appleton, WI 54914 U.S.A. declares that the product(s) identified in this declaration conform to the essential requirements and provisions of the stated Council Directive(s) and Standard(s).

Product/Apparatus Identification:

Product	Stock Number
COOLMATE 3 115V W/CE COMPLIANCE	043007012
COOLMATE 3 230V W/CE COMPLIANCE	043008012

Council Directives:

- 2006/95/EC Low Voltage
- 2004/108/EC Electromagnetic Compatibility

Buil A Celula

Standards:

- IEC 60974-1:2005 Arc welding equipment Part 1: Welding power sources
- IEC 60974-2:2008 Arc welding equipment Part 2: Liquid cooling systems
- IEC 60974-10:2007 Arc Welding Equipment Part 10: Electromagnetic compatibility (EMC) requirements
- EN 50445:2008 Product family standard to demonstrate compliance of equipment for resistance welding, arc welding and allied processes with the basic restrictions related to human exposure to electromagnetic fields (0 Hz – 300Hz)

US Signatory:

August 31, 2009

David A. Werba

Date of Declaration

MANAGER, PRODUCT DESIGN COMPLIANCE



Please complete and retain with your personal records.

Model Name Cools	nate 3 :	* Sezial Serial/Style Numbe	MA020350F
Purchase Date 3-	17 - 10 Date which ed	quipment was delivered to origi	nal customer.)
Distributor			
Address		No. 26	
City			
State	2	Zip	



Contact a DISTRIBUTOR or SERVICE AGENCY near you.

Always provide Model Name and Serial/Style Number.

Contact your Distributor for:	Welding Supplies and Consumables			
	Options and Accessories			
	Personal Safety Equipment			
	Service and Repair			
	Replacement Parts			
	Training (Schools, Videos, Books)			
	Technical Manuals (Servicing Information and Parts)			
	Circuit Diagrams			
	Welding Process Handbooks			
	To locate a Distributor or Service Agency visit www.millerwelds.com or call 1-800-4-A-Miller			
Contact the Delivering Carrier to:	File a claim for loss or damage during shipment.			
	For assistance in filing or settling claims, contact your distributor and/or equipment manufacturer's Transportation Department.			

Miller Electric Mfg. Co.

An Illinois Tool Works Company 1635 West Spencer Street Appleton, WI 54914 USA

International Headquarters-USA USA Phone: 920-735-4505 Auto-Attended USA & Canada FAX: 920-735-4134 International FAX: 920-735-4125

For International Locations Visit www.MillerWelds.com



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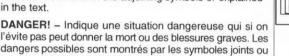
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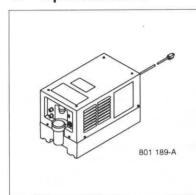
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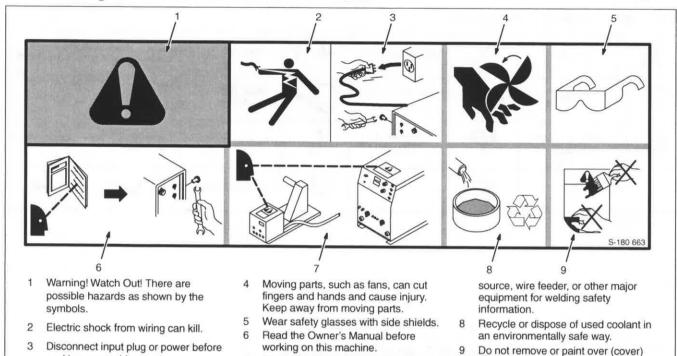
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100 h. std.

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S-178 910

043 810 (HF) 043 809 (AL)

4/96

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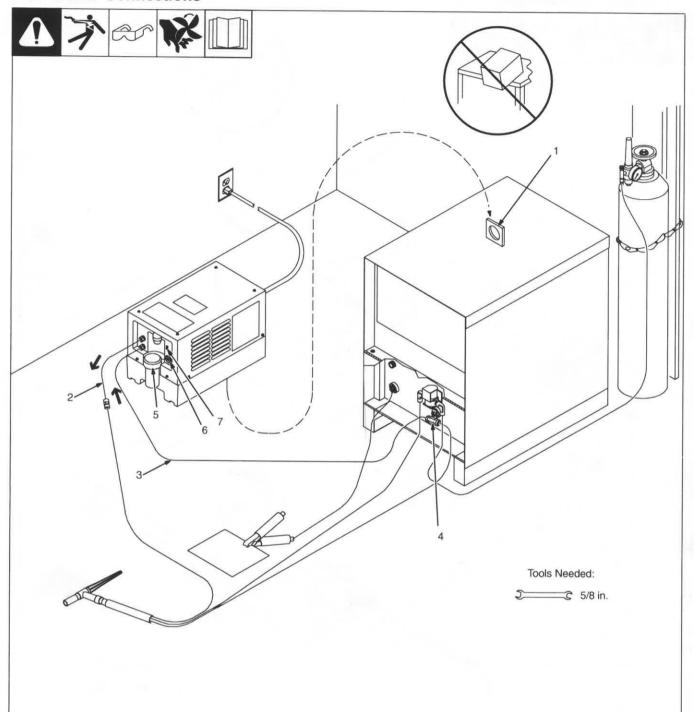
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2 Coolant Out Hose

3 Coolant In Hose

Fittings have 5/8-18 left-hand threads. Connect hoses with proper fittings as shown.

4 TIG Block

Customer supplied for use with some welding power sources, or use proper connector supplied with welding power source.

5 Coolant Tank Cap

Use table in Section 9 to select proper coolant, and fill tank. Maintain coolant level at approximately 1 in (25 mm) below top of filler neck.

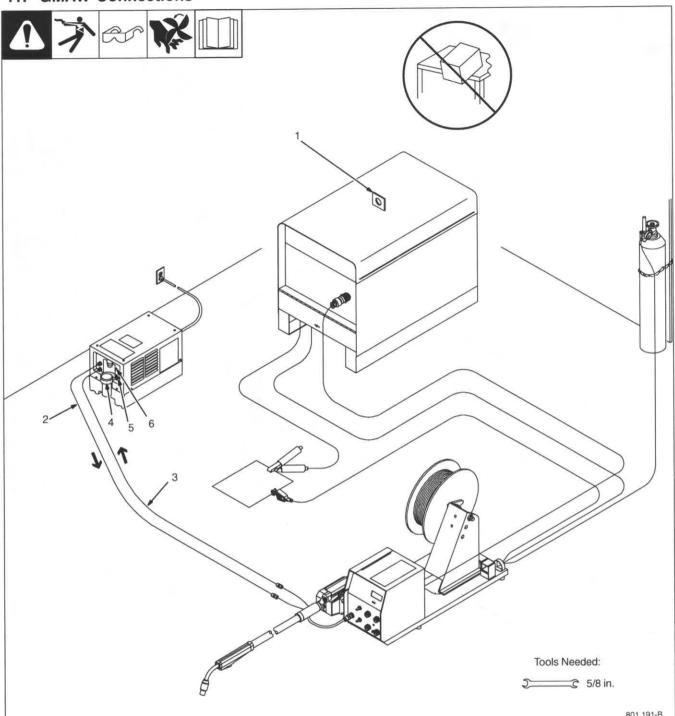
6 Flow Indicator

7 Power Switch

Operation:

Turn power switch On. Flow indicator spins to indicate that at least 0.53 qt/min (0.5 L/min) of coolant is flowing.

11. GMAW Connections



801 191-B



A Do not move or operate unit where it could tip.

Lift -Eye

If placing cooling unit on welding power source, slots are provided in bottom of unit so it fits over lift-eye.

To prevent overheating, make sure cooling unit is positioned so airflow is not restricted.

NOTICE - If welding power source has a

water valve, do not connect hoses to water valve. Connect hoses as shown.

- Coolant Out Hose
- Coolant In Hose

Fittings have 5/8-18 left-hand threads. Connect hoses with proper fittings as shown.

4 Coolant Tank Cap

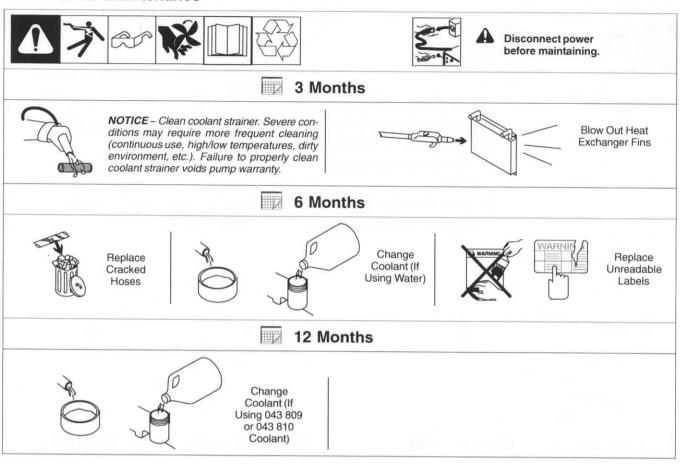
Use table in Section 9 to select proper coolant, and fill tank. Maintain coolant level at approximately 1 in (25 mm) below top of filler neck.

- 5 Flow Indicator
- Power Switch 6

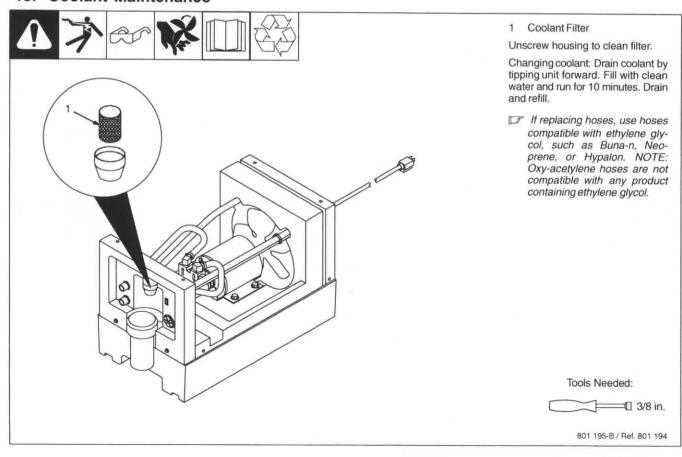
Operation:

Turn power switch On. Flow indicator spins to indicate that at least 0.53 qt/min (0.5 L/min) of coolant is flowing.

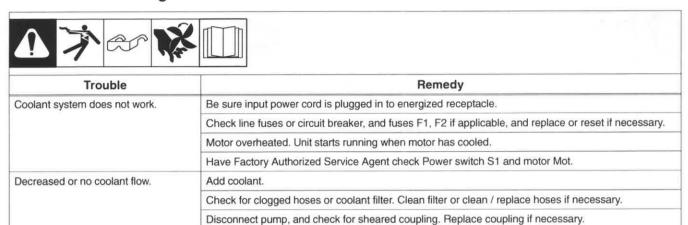
12. Routine Maintenance

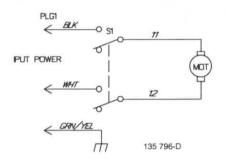


13. Coolant Maintenance

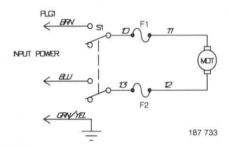


14. Troubleshooting





Circuit Diagram For 115 And 230 Volt



Circuit Diagram For 230 Volt (CE Models)

15. Parts List

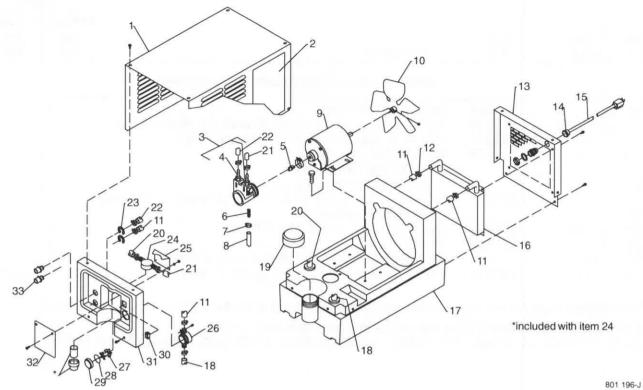


Figure 15-1. Complete Assembly

					antity odel
				043 007	043 008
Item	Dia.	Part		115	230
No.	Mkgs.	No.	Description	Volt	Volt

Figure 15-1Complete Assembly.

	the transfer of the second sec
1	WRAPPER 1 1
2 192 449	LABEL, warning general precautionary 1 1
3 197 361	PUMP COOLANT w/V-BAND, (includes) 1 1
4	FITTING, hose brs barbed M 3/8tbg x 3/8
5 134 795	COUPLER, drive pump 1
6 196 990	FITTING, hose brs barbed 1 1
7 089 120	CLAMP, hose .375 – .450 clip 1
	HOSE, nprn brd no 1 x .250ID 1
	MOTOR, 1/4hp 230VAC 50/60Hz 1425/1725rpm (230V model) 1
	MOTOR, 1/4hp 115VAC 50/60Hz 1425/1725rpm (115V model) 1
10 166 570	BLADE, fan 9.000 5wg 38deg .500 bore cw (setscrew included) . 1 1
	TUBING, PVC .375 x .625 OD X 18.000
	CLAMP, Hose .250625 Clp Dia
	PANEL, rear 1 1
14 139 042	BUSHING, strain relief .270/.480 id x .804 mtg hol
15 PLG1 192 458	CABLE, power 11FT 16ga 3c (230V model) 1
	CABLE, power 10ft 16ga (115V model)
	CABLE, pwr 10ft (230V CE Models) 1
	RADIATOR, heat exchanger 1
17 168 267	TANK COOLANT 1 1
18 174 043	TUBING, PVC .375 ID x .625 OD x 1.250
19 166 608	CAP, tank screw-on w/vent 1
20 182 994	TUBE, pick-up coolant 1
	TUBING, PVC .375 ID x .625 OD x 10.000 1 1
	HOSE, nprn brd No. 1 x .375 ID x 10.50 black 1 1
	RING, ring ext .500 shaft grv x .042thk
24 166 564	FILTER, in-line 1 1

					lantity lodel
Item No.	Dia. Mkgs.	Part No.	Description	043 007 115 Volt	043 008 230 Volt
			Figure 15-1Complete Assembly (continued).	
		011 116	CLIP, filter mounting	V CE Models only)	

25	168 254	CLIP, filter mounting	. 1
F1, F2	011 116	FUSE, mintr gl slo-blo 7A 250V (230V CE Models only)	. 2
* * * * * * * * * * * * * * * * * * * *	098 376	HOLDER, fuse mintr (230V CE Models only)	. 1
	215 279	INDICATOR, flow (includes) 1	. 1
26		HOUSING, flow indicator	. 1
		PADDLE, flow indicator	
		O-RING, 1.301 ID x .070CS (may be bought separately) 1	
29		. LENS, flow indicator	. 1
		SWITCH, rocker DPST 15A 250VAC 1	
		PANEL, front	
		NAMEPLATE, (order by model and serial number)1	
		FITTING, coolant barbed 3/8tbg 5/8-18 female 2	

⁺When ordering a component originally displaying a precautionary label, the label should also be ordered.

^{*}Hose clamps (2 per hose) should be ordered for any hose removal or repair.

BE SURE TO PROVIDE MODEL AND SERIAL NUMBER WHEN ORDERING REPLACEMENT PARTS.



DECLARATION OF CONFORMITY

for European Community (CE marked) products.

MILLER Electric Mfg. Co., 1635 Spencer Street, Appleton, WI 54914 U.S.A. declares that the product(s) identified in this declaration conform to the essential requirements and provisions of the stated Council Directive(s) and Standard(s).

Product/Apparatus Identification:

Product	Stock Number
COOLMATE 3 115V W/CE COMPLIANCE	043007012
COOLMATE 3 230V W/CE COMPLIANCE	043008012

Council Directives:

- 2006/95/EC Low Voltage
- 2004/108/EC Electromagnetic Compatibility

Buil A Celula

Standards:

- IEC 60974-1:2005 Arc welding equipment Part 1: Welding power sources
- IEC 60974-2:2008 Arc welding equipment Part 2: Liquid cooling systems
- IEC 60974-10:2007 Arc Welding Equipment Part 10: Electromagnetic compatibility (EMC) requirements
- EN 50445:2008 Product family standard to demonstrate compliance of equipment for resistance welding, arc welding and allied processes with the basic restrictions related to human exposure to electromagnetic fields (0 Hz – 300Hz)

US Signatory:

August 31, 2009

David A. Werba

Date of Declaration

MANAGER, PRODUCT DESIGN COMPLIANCE



Please complete and retain with your personal records.

Model Name Coolmate	Serial/Style Num	# MA020350 F berstock # 043007
Purchase Date 3-/7-	10 Date which equipment was delivered to	original customer.)
Distributor		
Address	19.00	1,191000
City		
State	Zip	



Contact a DISTRIBUTOR or SERVICE AGENCY near you.

Always provide Model Name and Serial/Style Number.

Contact your Distributor for: Welding Supplies and Consumables Options and Accessories Personal Safety Equipment Service and Repair Replacement Parts Training (Schools, Videos, Books) Technical Manuals (Servicing Information and Parts) Circuit Diagrams Welding Process Handbooks To locate a Distributor or Service Agency visit www.millerwelds.com or call 1-800-4-A-Miller Contact the Delivering Carrier to: File a claim for loss or damage during shipment. For assistance in filing or settling claims, contact your distributor and/or equipment manufacturer's Transportation Department.

Miller Electric Mfg. Co.

An Illinois Tool Works Company 1635 West Spencer Street Appleton, WI 54914 USA

International Headquarters-USA
USA Phone: 920-735-4505 Auto-Attended
USA & Canada FAX: 920-735-4134
International FAX: 920-735-4125

For International Locations Visit www.MillerWelds.com



Coolmate Series

Issued Oct. 2008 • Index No. AY/7.2

Coolant Systems



Quick Specs

⊕|C€

Light/Heavy Industrial Applications

Manufacturing Aerospace Automotive Tube Mills Automation

Processes

TIG (GTAW) MIG (GMAW) Plasma Cutting Resistance Welding Input Power Single-Phase

Input Voltage 115 VAC or 230 VAC, 50/60 Hz

Max. Cooling Capacity 9,700-18,000 BTU/hr

The Power of Blue:

Coolant



Coolmate 1

Coolmate 3

Coolmate V3

Coolmate 3.5

0

Coolmate 4

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 5/8-18 left-hand fittings.

10 ft (3 m) power cords with plugs 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.



Coolant systems are warranted for 1 year, parts and labor.

MADE IN LEGA



Miller Electric Mfg. Co.

An Illinois Tool Works Company 1635 West Spencer Street Appleton, WI 54914 USA International Headquarters

Phone: 920-735-4505 USA FAX: 920-735-4134 Canadian FAX: 920-735-4169 International FAX: 920-735-4125 Web Site

www.MillerWelds.com





PIPEWORX COOLER

300370

\$992.00



Mounted cooler for MIG or TIG welding. Unit is removable for service and repair.

* All prices are U.S. dollars and reflect Manufacturer's Suggested Retail Price (MSRP) for the U.S. market. Tax, delivery and setup not included. Actual selling price determined by the Distributor. Prices are subject to change without notice. Additional items may be required for welding, such shielding gas, consumables, and safety equipment.

Product Descriptions

Coolmate™ V3



#043 009 115 VAC, 50/60 Hz **CE** 115 VAC, 50/60 Hz **CE**

Vertical, 3-gallon cooler designed for water-cooled torches rated up to 500 A*.

- Distinct, vertical design allows mounting onto a power source running gear or gas cylinder rack
- ·Weighs only 48 lb (22 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

Coolmate™ 3.5



#300 245 115 VAC, 50/60 Hz

Industrial, 3.5-gallon cooler designed for water-cooled torches rated up to 600 A*.

- Designed to integrate with Dynasty 350/700 and Maxstar 350/700
- Horizontal design allows stacking or convenient mounting onto a MIGRunner™ cart
- · Weighs only 64 lb (29 kg) dry
- 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
- 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

Coolmate™ 4



#042 288 115 VAC, 50/60 Hz **#042 288-01-5** 115 VAC, 50/60 Hz **CE**

The best performer in its class — industrial, 4-gallon cooler designed for water-cooled torches rated up to 600 A*.

- · Patented circular design available only from Miller
- · Weighs only 38 lb (17 kg) dry
- · Tough, one-piece case is portable and rustproof
- · Convenient carrying handle and filler spout are molded into case
- · Easily accessible coolant filter
- Factory-set pressure relief valve (60 PSI) maintains consistent pressure during operation
- Thermally protected 1/4 HP motor guards against overheating
- · Efficient fin and tube heat exchanger
- Coolant system has a constant flow of coolant inside to keep the pump primed and to reduce algae buildup in the tank
- Brass-body, positive displacement rotary vane pump provides consistent coolant flow and pressure rating with long pump-life expectancy

Coolmate™ 3X



Includes wheels and handles.



#300 419 115 VAC, 50/60 Hz

Industrial, 3-gallon cooler designed for water-cooled torches rated up to $500 \ A^*$.

- Includes easy load dual cylinder rack, running gear and handles for Syncrowave 250 DX/350 LX
- "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

*May vary with torch design and cable length.



Genuine Miller Accessories

Torch Kits



250 A with WP20 Water-Cooled Torch #300 185

- = 25 ft (7.6 m) Weldcraft® WP20 torch
- Torch cable cover
- AK4C torch accessory kit includes shielding cups, collets, collet bodies and 2% cerium tungsten electrodes (1/16, 3/32 and 1/8 in)
- Smith® regulator/flowmeter HM2051A-580
- 12 ft (3.7 m) rubber gas hose (regulator to machine)
- Water-cooled Dinse torch adapter
- 15 ft (4.6 m) 1/0 work cable with clamp and Dinse connector



300 A with CS310 Water-Cooled Torch #300 183

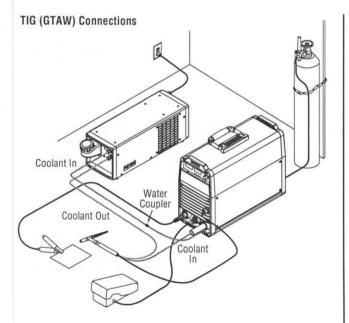
- 25 ft (7.6 m) Weldcraft® CS310 torch
- Torch cable cover
- CS310AKC torch accessory kit includes shielding cups, collets, collet bodies and 2% cerium tungsten electrodes (1/16, 3/32 and 1/8 in)
- Smith® regulator/flowmeter HM2051A-580
- 12 ft (3.7 m) rubber gas hose (regulator to machine)
- Water-cooled Dinse torch adapter
- 15 ft (4.6 m) 1/0 work cable with clamp and Dinse connector

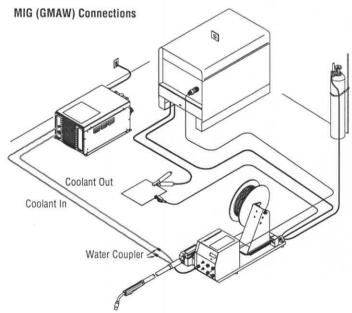


400 A with WP18SC Water-Cooled Torch #300 186

- 25 ft (7.6 m) Weldcraft® WP18SC torch
- Torch cable cover
- AK18C torch accessory kit includes shielding cups, collets, collet bodies and 2% cerium tungsten electrodes (3/32, 1/8 and 5/32 in)
- Smith® regulator/flowmeter H1954D-580
- 12 ft (3.7 m) rubber gas hose (regulator to machine)
- Water-cooled thread lock torch adapters
- 12 ft (3.7 m) 4/0 work cable with clamp

Typical Coolmate** Connections







Typical Coolmate™ Usages



Coolmate 1 shown with Maxstar® 200 DX TIGRunner®





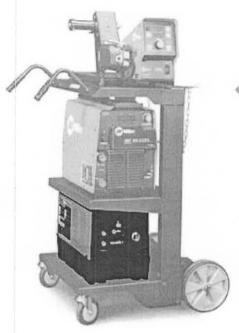
Coolmate 1 shown with Syncrowave® 200 Runner



Coolmate 3X shown with Syncrowave® 250 DX TIGRunner®



Typical Coolmate™ Usages



Coolmate 3 shown with XMT® 350 MIGRunner™



Coolmate 3.5 shown with XMT® 350 MIGRunner™



Coolmate V3 shown with stationary spot welder



Genuine Miller Accessories

Water-Cooled TIG Torch Adapters



50 mm International with Water Return Line #195 377

For Maxstar 200, 300 and 350, Dynasty 200, 300 and 350, and Syncrowave 250 and 350. Used with (WP125, WP24W, WP25, WP20, WP18, WP12, CS310, CS410, WP22, WP27) water-cooled torch. Order from Miller Service Parts.



With gas and water return line

50 mm International Flow Thru #195 380 For Econotig and Syncrowave 180 and 200. Used with (WP125, WP24W, WP25, WP20) water-cooled torch. Order from Miller Service Parts.



50 mm Thread Lock-Style #225 028
For Dynasty 700 and Maxstar 700. Used with (WP125, WP24W, WP25, WP20, WP18, WP12, CS310, CS410, WP22, WP27) water-cooled torch. Order from Miller Service Parts.



Water-Cooled TIG Block Adapter #45V11 For Miller power sources with stud-type output terminals. Order from Miller Service Parts.



Replacement Water Hose for Dinse Adapter #222 809 18 in (457 mm). Order from Miller Service Parts.

Water Hoses and Connectors



Water Hose Extension #40V83R-3 3 ft (0.9 m) #40V76R6 6 ft (1.8 m) #40V76R 12-1/2 ft (3.8 m) Hose with two male 5/8 in 18 LH thread connections. Order from Miller Service Parts.



Water Coupler #057 020
Brass hose fitting with 5/8 in 18 LH thread.
Order from Miller Service Parts.

Coolants



Sold in multiples of four in 1-gallon recyclable plastic bottles. Miller coolants contain a base of ethylene glycol and deionized water to protect against freezing to -37°F (-38°C) or boiling to 227°F (108°C).

Low-Conductivity Coolant (Clear, Pre-Mixed) #043 810 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) #043 809 Primarily used in push-pull systems where aluminum is in coolant path/circuit and high frequency is NOT used.

Replacement Filter Assemblies



Filter Assemblies #166 564 For Coolmate 1, 3, V3 and 3X #215 667 For Coolmate 3.5 Order from Miller Service Parts.



Filter Strainer #146 249 For Coolmate 4 Located inside pump assembly. See owner's manual. Order from Miller Service Parts.





Model	Motor Input Voltage 50/60 Hz	Maxim Curren 50 Hz		Maximum Cooling Capacity*	Rated Cooling Capacity**	Tank Capacity	Dimensions	Net Shipping Weight
Coolmate 1	115 VAC, 60 Hz	_	2.1 A	2,850 W	1,210 W	1 gal	H: 8 in (203 mm)	29 lb
Coolmate 1 CE	230 VAC, 50/60 Hz	0.65 A	0.55 A	(9,700 BTU/hr) 1.8 qt/min (1.7 L/min)	(4,120 BTU/hr) 1.1 qt/min (1 L/min)	(3.8 L)	W: 7-1/2 in (191 mm) D: 23-3/4 in (603 mm)	(13 kg)
Coolmate 3 CE	115 VAC	5.9 A	4.7 A	3,820 W	1,420 W	3 gal	H: 13-1/4 in (337 mm)	43 lb
	230 VAC	2.5 A	3.0 A	(13,000 BTU/hr) 4.2 qt/min (4.0 L/min)	(4,840 BTU/hr) 1.1 qt/min (1 L/min)	(11.4 L)	W: 12-1/4 in (311 mm) D: 23-1/4 in (584 mm)	(20 kg)
Coolmate V3 Coolmate V3 CE	115 VAC	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: 33 in (838 mm) W: 9-1/4 in (235 mm) D: 9-1/4 in (235 mm)	54 lb (24 kg)
Coolmate 3.5	115 VAC	5.9 A	4.7 A	4,140 W (14,000 BTU/hr) 5.0 qt/min (4.7 L/min)	1,660 W (5,660 BTU/hr) 1.1 qt/min (1 L/min)	3.5 gal (13.2 L)	H: 11-3/4 in (298 mm) W: 15-3/4 in (400 mm) D: 26 in (660 mm)	70 lb (32 kg)
Coolmate 4 Coolmate 4 CE	115 VAC	5.9 A	4.7 A	5,500 W (18,000 BTU/hr) 5.9 qt/min (5.6 L/min)	1,780 W (6,070 BTU/hr) 1.1 qt/min (1 L/min)	4 gal (15 L)	H: 16-1/4 in (413 mm) W: 15-1/4 in (387 mm) D: 18-3/4 in (476 mm)	40 lb (18 kg)
Coolmate 3X	115 VAC	5.9 A	4.7 A	4.140 W (14,000 BTU/hr) 5.0 qt/min (4.7 L/min)	1,660 W (5,660 BTU/hr) 1.1 qt/min (1 L/min)	3 gal (11.4 L)	H: 17 in (432 mm) W: 27 in (686 mm)*** D: 39 in (991 mm)	158 lb (72 kg)

^{*}Maximum cooling capacity is based on a 25°C (77°F) environment at maximum flow with a 65°C (149°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™ 1



#300 360 115 VAC, 60 Hz #300 360-00-1 115 VAC, 60 Hz CE #300 459 230 VAC, 50/60 Hz #300 459-00-1 230 VAC, 50/60 Hz CE

Light industrial, 1-gallon cooler designed for water-cooled torches on power sources rated up to 200 A*.

- · Designed to integrate with smaller Dynasty and Maxstar models and Syncrowave 200
- Compact horizontal design allows stacking and convenient mounting
- . Lightweight at 25 lb (11 kg) dry
- · Equipped with lighted on/off power switch 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
- · Thermally protected piston pump guards against overheating
- · Stainless steel oscillating piston pump provides consistent coolant flow and pressure rating with long pump-life expectancy

Coolmate™ 3



#043 007 115 VAC, 50/60 Hz #043 007-01-2 115 VAC, 50/60 Hz CE #043 008 230 VAC, 50/60 Hz #043 008-01-2 230 VAC, 50/60 Hz CE

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

- · Compact horizontal design allows stacking and convenient mounting
- Midsize cooler weighs 40 lb (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



^{**}Rated IEC standard cooling capacity is based on a 25°C (77°F) environment at a flow of 1 L/min with a 40°C (104°F) coolant temperature rise.

^{***}Width measurement includes rear wheels and axle. Cooler width without rear wheels and axle is 22-1/4 in (565 mm).

Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
Soolmate™ 1	#300 360 #300 360-00-1 #300 459 #300 459-00-1	115 VAC, 60 Hz 115 VAC, 60 Hz with CE 230 VAC, 50/60 Hz 230 VAC, 50/60 Hz with CE		
Coolmate™ 3	#043 007 #043 007-01-2 #043 008 #043 008-01-2	115 VAC, 50/60 Hz 115 VAC, 50/60 Hz with CE 230 VAC, 50/60 Hz 230 VAC, 50/60 Hz with CE		
Coolmate™ V3	#043 009 #043 009-01-2	115 VAC, 50/60 Hz 115 VAC, 50/60 Hz with CE		
Coolmate™ 3.5	#300 245	115 VAC, 50/60 Hz with CE	-	
Coolmate™ 4	#042 288 #042 288-01-5	115 VAC, 50/60 Hz 115 VAC, 50/60 Hz with CE		
Coolmate™ 3X	#300 419	115 VAC, 50/60 Hz		
Accessories			-	
Water-Cooled TIG Torch Adapters Order from Miller Service Parts	#195 377 #195 380 #225 028 #45V11 #222 809	50 mm International with water return line 50 mm International flow thru with gas and water return line 50 mm thread lock-style Water-cooled TIG block 18 in (457 mm) replacement water hose		
Water Hose Extensions Order from Miller Service Parts	#40V83R-3 #40V76R6 #40V76R	3 ft (0.9 m) hose with two male 5/8 in 18 LH thread connections 6 ft (1.8 m) hose with two male 5/8 in 18 LH thread connections 12-1/2 ft (3.8 m) hose with two male 5/8 in 18 LH thread connections		
Water Coupler	#057 020	Brass hose fitting with 5/8 in 18 LH thread		
Low-Conductivity Coolant (Clear, Pre-Mixed)	#043 810	For TIG and MIG applications. NOT for push-pull systems or where aluminum is in coolant path/circuit.		
Aluminum-Protecting Coolant Green, Pre-Mixed)	#043 809	For push-pull systems where aluminum is in coolant path/circuit and high frequency is NOT used.		
Filter Assemblies Order from Miller Service Parts	#166 564 #215 667	For use with Coolmate 1, 3, V3 and 3X For use with Coolmate 3.5		
Filter Strainer	#146 249	For use with Coolmate 4. Order from Miller Service Parts		
Torch Kits	#300 185 #300 183 #300 186	250 A with WP20 water-cooled torch 300 A with CS310 water-cooled torch 400 A with WP18SC water-cooled torch		

Date:

Total Quoted Price:

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Contract of the second



Distributed by:

		Stock #	Mfg. List Price US\$*	(US & Canada Add to List
Die state of the s	COOLMATE 1 230VAC Light industrial, 1-gallon cooler designed for water-cooled torches on power sources rated up to 200A. Compact horizontal design allows stacking and convenient mounting. Filter and coolant filling spout are conveniently located for easy access.	300459	\$550.00	
0%	COOLMATE 1 115 VAC Light industrial, 1-gallon cooler designed for water-cooled torches on power sources rated up to 200A. Compact horizontal design allows stacking and convenient mounting. Filter and coolant filling spout are conveniently located for easy access.	300360	\$550.00	
N. S.	COOLMATE 3X W/CART & DUAL CYLINDER RACK Industrial, 3-gallon cooler designed for water-cooled torches rated up to 500A. Includes easy load dual cylinder rack, running gear and handles for Syncrowave 250 DX/LX.	300419	\$1668.00	
	Coolmate TM 3 115 VAC, 50/60 Hz For use with water-cooled torches rated up to 600 amps. Runs on 115 VAC. Unique paddle-wheel indicator, external filter and easy-fill spout. 3 gallon capacity.	043007	\$719.00	
	Coolmate [™] 3 230 VAC, 50/60 Hz For use with water-cooled torches rated up to 600 amps. Runs on 230 VAC. Unique paddle-wheel indicator, external filter and easy-fill spout. 3 gallon capacity.	043008	\$779.00	
	Coolmate™ 3.5 Designed to integrate with the Dynasty and Maxstar 350 and 700 power sources. For use with water-cooled torches rated up to 600 amps. 3.5 gallon capacity.	300245	\$922.00	
	Coolmate [™] 4 115 VAC For use with water-cooled torches rated up to 600 amps. Runs on 115 VAC. The best performer in its class. Tough molded polyethylene case with carrying handle. 4 gallon capacity.	042288	\$800.00	
	Coolmate [™] V3 For use with water-cooled torches rated up to 500 amps. Runs on 115 VAC. Vertical design conveniently mounts to Miller cylinder rack in place of one cylinder. 3 gallon capacity.	043009	\$848.00	