# HVAC/R & PLUMBING EQUIPMENT CATALOG

## UNIWELD®

## QUALITY TOOLS THAT GO TO WORK WITH YOU®























Since 1949

UNIWELD PRODUCTS, INC • FORT LAUDERDALE • FL 33312 U.S.A.





**Flame Safety** 

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**UDFT Deluxe Flaring Tool** 

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Modern Tubing Tools All-in-One Flux Cored Aluminum Brazing Alloy

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**Two Valve Brass Manifold Repair** 



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**Professional Evacuation Kit** 

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UNIWELD **FB12** en.

**FB12** Flame Barrier 3200° dir

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**Spiral Tip Savers** 

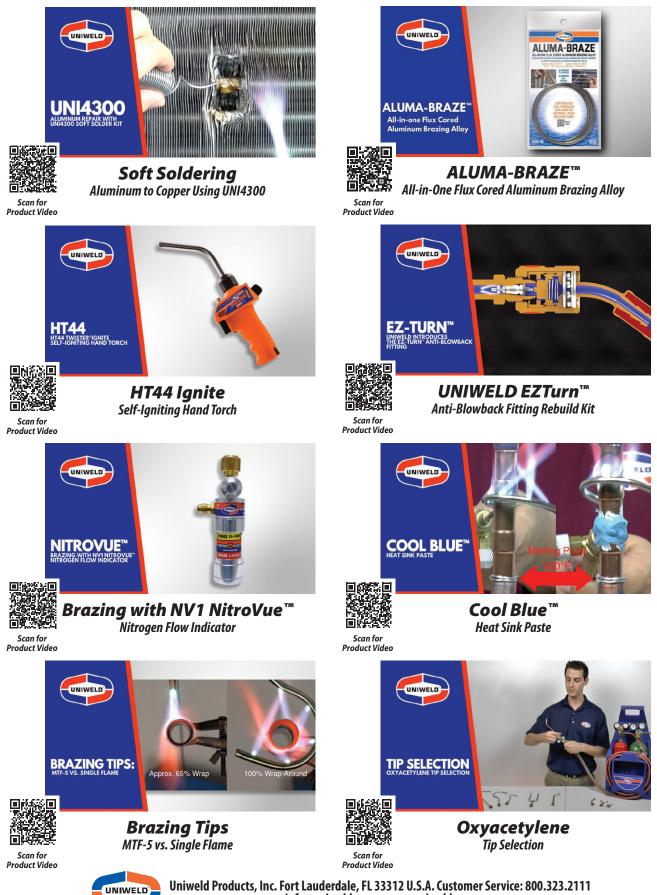


[[]]¢

**EXPANDER** 

EXPANDER Swage Tool Kit





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## **Tubing Tools**





OVER 80% OF UNIWELD PRODUCTS ARI MADE IN THE USA

This catalog provides you with detailed information on a full range of Uniweld flame tools for the HVAC/R, Plumbing, Automotive and Industrial Maintenance professionals. When deciding on what flame tools are needed for your particular job application, it's a good idea to determine, "Will it be used specifically for welding or cutting steel, soldering or brazing copper tubing or should it be a multi-purpose outfit." We've provided the basic industry definitions for the above applications to help you decide what flame tools will be required to get the job done efficiently.



### WELDING

Welding is the joining of similar metals by heating until molten and then fusing them together, usually with a similar filler material.

#### CUTTING

Cutting occurs when steel is heated to a pasty range (over 1600°F) and a jet of Oxygen is added into this heated area causing it to rapidly oxidize and separate.





#### **SOLDERING & BRAZING**

Basically, they're both very similar. It is the joining of metals through the use of heat and a filler metal. The difference between soldering and brazing is the temperature at which the filler material melts. If it melts below 800°F, *it is soldering*; above 800°F, it is brazing. In general, soldering will provide a permanent bond while brazing is preferred when vibration, temperature and higher tensile strength are considerations.



#### **FIRE TRIANGLE**

Fire consists of three basic elements. 1. Fuel; 2. Oxygen; 3. Ignition. This is called the Fire Triangle.



#### OXYACETYLENE

Combining Oxygen and Acetylene from two separate tanks produces a concentrated flame of approx. 5600°F, that is ideal for brazing copper tube, welding and cutting steel and general maintenance repairs. This type of flame tool is preferred by HVAC/R tradesmen because of its hot, concentrated flame with low heat transfer into sensitive components. Heat transfer is minimized with the use of proper tips.

#### **AIR/ACETYLENE**

These flame tools use a single tank of fuel and by induction of the outside air create an efficient flame. The target heat is 2700°F and is ideally suited for soldering and brazing copper tube. Tank size is usually a B (40 cu.ft.) or MC (10 cu.ft.)

#### **AIR/LP GAS**

These flame tools utilize a single tank of liquid petroleum fuel and by induction of the outside air create a flame. The most common LP fuels are Propane and ZAPP Gas<sup>®</sup> (Propylene). The target heat for Propane is 1750°F and for ZAPP Gas<sup>®</sup> it's 2400°F.





Always use the proper size tip for the job. Never use an oversized tip and then cut the fuel and oxygen back to work on a small job. This will starve the tip of oxygen and acetylene, resulting in improper operating pressure that may cause tip damage, overheating, backfire and flashback. The following is a good example of proper procedure for lighting an oxyacetylene tip. This operating procedure is not a substitute for carefully reading the manufacturer's operating instructions.

Read the manufacturer's instructions before use.

[STEP 1] Prior to opening the cylinder valve, make sure the regulator pressure adjusting screw is backed all the way out by turning it counterclockwise until there is no pressure on the spring. When opening or closing the cylinder valve, always stand to the side of the cylinder with the regulator facing forward. The oxygen cylinder valve should be "cracked" open slowly until the cylinder contents gauge stops



moving. Then, open the valve sufficiently to provide adequate flow. The fuel gas [acetylene] cylinder valve should be opened a maximum of  $\frac{3}{4}$  turn and a wrench should remain in position on the stem of the valve while the cylinder is in use so that the valve can be quickly turned off in case of an emergency.

[STEP 2] After the proper tip has been selected and installed, the proper operating pressure needs to be determined from the manufacturer's tip chart. Set each regulator to its corresponding pressure by adjusting the pressure adjusting screw. Purge hoses and equipment by briefly opening and closing the oxygen valve and fuel gas valve separately and venting gases safely. Purge hoses and equipment before each use.





#### [STEP 3] To light the tip, open the fuel gas [acetylene] valve first about 1/2 turn and quickly ignite with a spark lighter. Adjust the flame so that it is

not separated from the tip end. The flame should be bright yellow with no black soot [3A]. If necessary, increase the fuel to clear the black soot.



Next, open the oxygen and adjust the flow until the white feathers disappear into a well-defined bullet nose cone called the neutral flame [3B].



[STEP 4] When you have completed the job and are ready to shut off the torch,always shut the oxygen valve first and then the fuel gas valve [acetylene]. NOTE: Shutting off the fuel gas first can cause backfire and/or flashback.



[STEP 5] To shut down the torch for storage or transportation, close the cylinder valves. Release the oxygen pressure by opening the oxygen torch valve [vent safely]. Close the torch valve and repeat this same process for the fuel gas [vent safely]. Close all valves tightly and secure the equipment. *Now the shutdown is complete*!

> Scan for Safety Video





ASK FOR FREE! FULL-SIZE (23"x 36") SAFETY POSTER

WHEN PLACING YOUR NEXT ORDER

Part# USP8S Spanish Safety Poster

Part# USP8E

English

Safety Poster



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Part# USPA

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- Cap'n Hook<sup>®</sup> 5 flame tip for brazing up to 1" copper tubing
- Welding tip for brazing up to 1" copper tubing and welding up to <sup>1</sup>/<sub>8</sub>" steel
- Centurion<sup>®</sup> oxygen regulator with reseatable pressure relief valve prevents regulator failure from abrupt tank pressure
- Protective rubber gauge boots
- Front valve welding handle with stainless steel ball point valves for accurate gas control
- Optional: CA100 cutting attachment with three tube tip mix for top performance and safety that cuts up to ½" steel with supplied tip

KCHCT Metal Stand

KCHPT Plastic Stand Display

Package

Cap'n Hook® Tips U.S. Patent No. 4,191,333



KCHPT

Plastic Stand

Scan for Product Video

	Part#	UPC#	Welding Handle	Welding/ Brazing Tip	Oxygen Regulator	Acetylene Regulator	Carrying Stand	Tanks*
	KCH	82630					w/o	w/o
	KCHC	82631		Type17-2			500S	w/o
Cap'n	KCHCT	82632		MTF-5	R0100	RMC100	500S	MC/R
Hook®	KCHP	82633	71	Cap'n Hook® Tip	KUTUU	KINICTUU	511	w/o
Outfits	КСНРТ	82634					511	MC/R
	KC122L	82620		MTF-5 MTW-1 / MTT	w/o	w/o	w/o	w/o

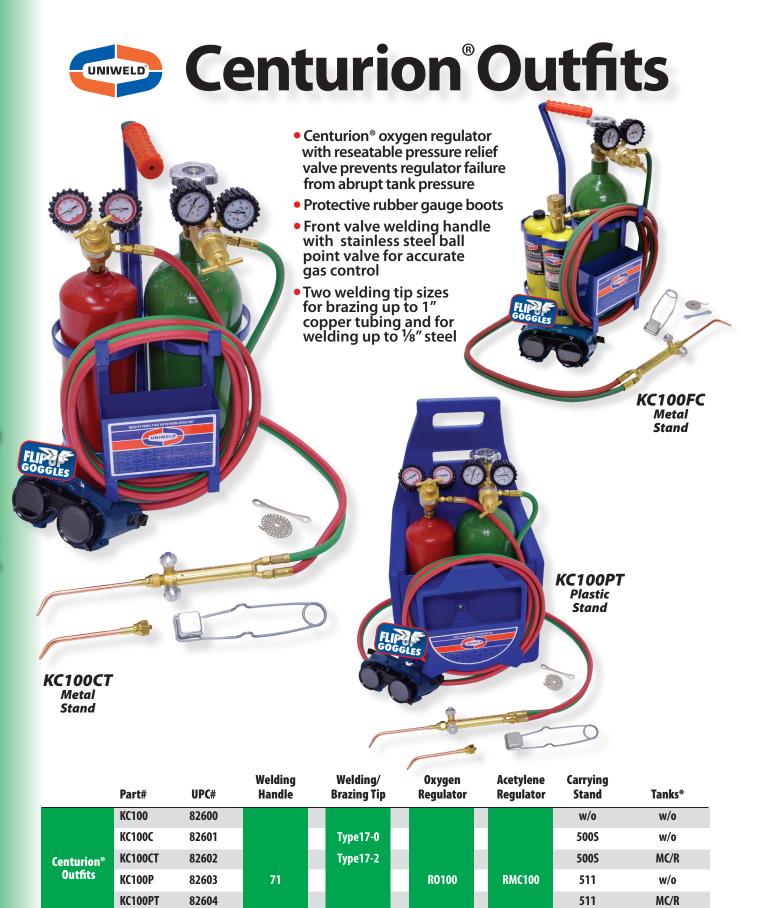
Outfits Include: H32A 12 ft. Twin Hose, WG53 Goggles, FL34 Flint Lighter, WO5 Tank Key w/chain . \*Tanks Shipped Empty





Outfits Include: H32A 12 ft. Twin Hose, WG53 Goggles, FL34 Flint Lighter, WO5 Tank Key w/chain. \*Tanks Shipped Empty





Outfits Include: H32A 12 ft. Twin Hose, WG53 Goggles, FL34 Flint Lighter, WO5 Tank Key w/chain. \*Tanks Shipped Empty † KC100FC - Outfit Includes: H32AT 12 ft. 3/16" Grade "T" Twin Hose, WG53 Goggles, FL34 Flint Lighter

Type17-3



82609

KC100FC†

R0100

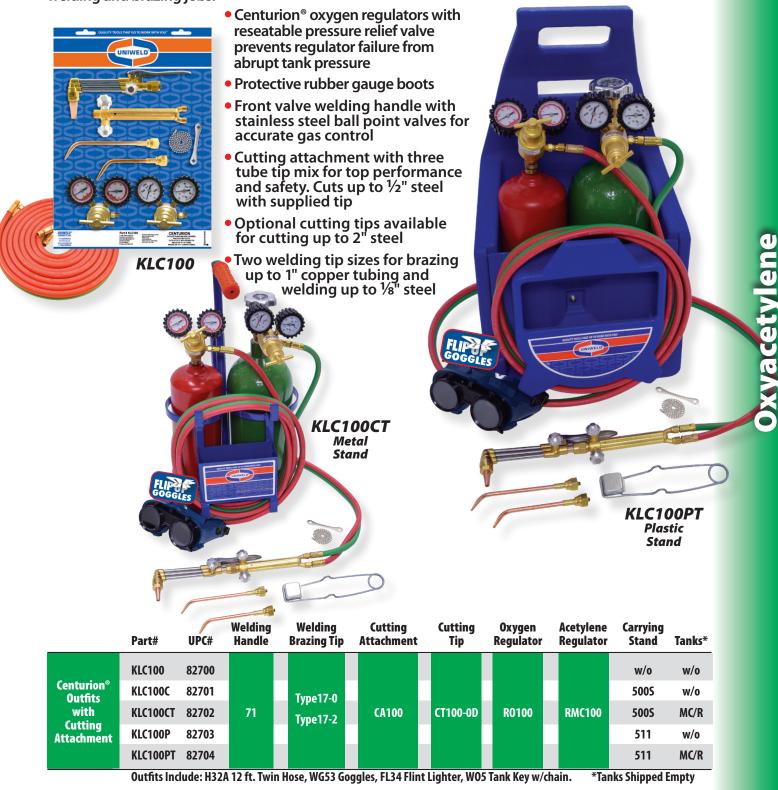
**RP3A** 

510

w/o



A cutting attachment and cutting tip have been added to upgrade the economical Centurion<sup>®</sup> contractor grade outfit. Portable, lightweight and suitable for light to medium duty cutting, welding and brazing jobs.





Outfits Include: H32A 12 ft. Twin Hose, WG53 Goggles, FL34 Flint Lighter, W05 Tank Key w/chain. \*Tanks Shipped Empty





	Part#	UPC#	Welding Handle	Welding/ Brazing Tip	Cutting Attachment	Cutting Tip	Oxygen Regulator	Acetylene Regulator	Carrying Stand	Tanks*
	KL71-4	82319						RMC2	w/o	w/o
	KL71-4C	82320						RMC2	500S	w/o
	KL71-4C-T	82321		Type17-0			RO	RMC2	500S	MC/R
Patriot® Outfits	KL71-4P	82324	71	Type17-1	CA100	CT100-0D		RMC2	511	w/o
	KL71-4P-T	82325		Type17-2				RMC2	511	MC/R
	KL71-5	82326						RB2	w/o	w/o
	KL71-5TR	82336						RB2	504	w/o

Outfits Include: H32A 12 ft. Twin Hose, WG53 Goggles, FL34 Flint Lighter, WO5 Tank Key w/chain. \*Tanks Shipped Empty







KL550-4P-T

**Metal Stand** 

Plastic	Plastic Stand		Welding	Welding/	Rosebud	Cutting	Cutting	0xygen	Acetylene		To solvo*
	Part#	UPC#	Handle	Brazing Tip	Heating Tip	Attachment	Tip	Regulator	Regulator	Stand	Tanks*
	KL550-4	82200					5-101-0D	RSO	RSMC2	w/o	w/o
	KL550-4C	82201					5-101-0D	RSO	RSMC2	500S	w/o
	KL550-4C-T	82202					5-101-0D	RS0	RSMC2	500S	MC/R
Mastar®	KL550-4P	82205	WH550	Type17-2	Type17-15	CA550	5-101-0D	RS0	RSMC2	511	w/o
Outfits	KL550-4P-T	82206					5-101-0D	RSO	RSMC2	511	MC/R
	KL550-5	82207					5-101-0D	RS0	RSB2	w/o	w/o
	KL550-TR	82208			w/o		5-101-2D	RSO	RSB2	504	w/o
	KL555-TR	82259			w/o		5-101-2D	12106	12107	504	w/o

Outfits Include: H32A 12 ft. Twin Hose, WG53 Goggles, FL34 Flint Lighter, WO5 Tank Key w/chain. \*Tanks Shipped Empty



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Oxyacetylene

UNI	WELD	W	ele	din	gł	lan	dles
	07 17 1100 101	- No Court An Co State I de Maria			• Valv poi • Bra	ves have stair nt for accura ss constructi	dle with front valves nless steel ball te gas control on with ribbed handle aluminum knobs
	lding Lloy	<b>71</b>				i vaives nave	
<ul> <li>WH550 We rear valves</li> <li>Valves have point for ac</li> <li>All brass co</li> </ul>	e stainless ccurate ga	steel bal s control		ndle	Wł	1550	IGAS CONTRACTOR
	Par	t#	UPC#	Leng	th	Weight	"A" Hose Connection
Welding Handle	71*		00300	6"		6.4 oz.	<sup>3</sup> /8"-24RH, Oxygen
	WH:	550*	00550	8.5'	1	12.6 oz.	<sup>3</sup> / <sub>8</sub> "-24LH, Fuel Gas
							Cutting Attachments have a double 0-Ring seal, so tighten the nut firmly hand tight. DO NOT USE A WRENCH AND OVER-TIGHTEN
that for c	00 is a thr the oxyge perator sa ing Tip Se	en and fu afety.	el gas n	nttachment nix in the cu	designed s Itting tip	50	X25R Small O-Ring X26R Large
					<b>()</b> )+		O-Ring
oxyge The cu	n and fuel	gas mix gen flows	in the b	5 <b>0</b> Chment des ottom tube h the top tu	and flow t	o the tip.	TERRER TIP CARE CARE OF A DE CARE CARE OF A DE CARE OF A
	Part#	UPC#	Head Angle	Head Type	Length	Weight	
Cutting	CA550*	02600			8"	15 oz.	0.0.000
Attachments	CA100	02700	90°	Forged	7"	10.8 oz.	Part# TXRK KIT includes
	* UL Listed						(5) X25R & (5) X26R



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## Welding/Brazing Tips



Tip

Type 17 welding and brazing tips come complete with elbow, mixer and nut. For use with Oxygen and the following fuel gases; Acetylene, Propane, ZAPP Gas<sup>®</sup> [Propylene] and Natural Gas. Type17-2



5-101-0D

SIZE: 0

Scan for p Selection Video	Part#	UPC#	Acetylene Consumption SCFH	Acetylene Pressure PSIG	Oxygen Pressure PSIG	Welding Metal Thickness	Brazing Copper Tubing
	Туре17-000	30250	1-2	5	5	1/32"	1/8"
	Type17-00	30251	2-3	5	5	<sup>3</sup> /64"	1/4"
	Type17-0	30252	2-4	5	5	5/64"	1/2"
Type17	Type17-1	30253	3-6	5	5	<sup>3</sup> /32"	3 <sub>/4</sub> "
Weld/Braze Tips	Type17-2	30254	5-10	5	5	1/8"	1"
	Type17-3	30255	8-18	6	7	<sup>3</sup> /16 <sup>"</sup>	1½"
	Type17-4	30256	10-25	7	10	1⁄4"	2"
	Type17-5	30257	15-35	8	12	<sup>1</sup> / <sub>4</sub> " to <sup>1</sup> / <sub>2</sub> "	3"

Welding & Brazing Tips have a double O-Ring seal, so tighten the tip nut firmly finger tight. DO NOT USE A WRENCH AND OVER-TIGHTEN



Oxyacetylene

X25R Small 0-Ring X26R Large

0-Ring



NOTE: When acetylene weld/braze tips are used with other fuel gases, use one size larger tip and maximum pressures to obtain proper heat. The chart indicates approximate torch oxygen consumption with a neutral flame ratio for various gases: Pressures are approximate for hose length up to 25 ft.; increase for longer lengths about 3 psig per 25 ft. - increase working pressure 2-3 psig for check valves and flashback arrestors. Acetylene delivery pressure should not exceed 15 psig under flow conditions.

CA100

**CT100** Series

**Cutting Tips have a metal** to metal seating, so be sure to tighten the tip nut wrench tight.



5-101-0D

5-101-1D

5-101-2D

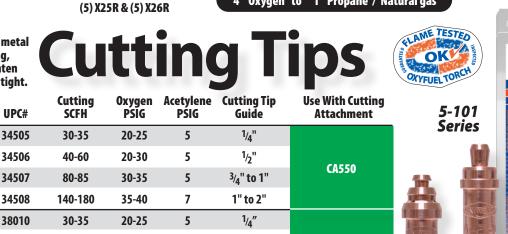
CT100-00D

CT100-0D

CT100-1D

CT100-2D

Cutting Tips



1/2"

3/4" to 1"

1" to 2"

13



38011

38012

38013

40-60

80-85

140-180

20-25

30-35

35-40

5

5

7

## Rosebud & Heating Tips

Rosebuds are your best tip choice for brazing, soldering and heating. They're available in 7" and 12" lengths and in several sizes. These tips fit Uniweld's 71 and WH550 welding handles.

3	1 j	1	2.1	N.	Y	V	1	1	1
1	1	1	1	1	1	V	1	1	1
1	1	1	1	1	1	X	1	1	1
).	1	1	1	1	0	1	K	1	1
1.	1.	1	1	1.	1.	1	A		
20.	1.	1.	0	1	0.	1	1		
1	1	1.	1.	1.	0.	1	1		
1.	0.	0.	0.	1.	1.	1.	1.	1	2

←	7"		*
	TYPE17-15		
	OryFUEL TORCH	Acetylene	Oxygen

	Part#	UPC#	Overall Length	Acetylene SCFH	Oxygen PSIG	Acetylene PSIG	Brazing Copper Tubing Guide
	Type17-15	31170	7"	15	12	10	<sup>1</sup> /8" to 2 <sup>5</sup> /8"
	*Type17-30	31171	7"	30	15	12	1/2" to 6"
Rosebud Heating	Type28-2	31450	12"	9	8	7	<sup>1</sup> / <sub>8</sub> " to 1 <sup>5</sup> / <sub>8</sub> "
Tips	Type28-4	31451	12"	14	12	10	<sup>1</sup> /2" to 3"
	*Type28-6	31452	12"	30	15	12	<sup>1</sup> /2" to 6"
	*Type28-8	31453	12"	60	25	15	6" to 8"

\*Tips must be used with a "B" 40 cu. ft. or larger acetylene cylinder.

**TYPE28-6** 

BENDABLE COPPER ELBOW



Flexible tips that you can bend to fit the job...even around corners! And then, re-bend 'em for the next job. 10.5" long, including mixer.

		and Concernence and					
						TY	PE13-8VM
	2) TYPE17-30 Tip Ends Part#		UPC#	Acetylene Consumption SCFH	Oxygen Pressure PSIG	Acetylene Pressure PSIG	Brazing Copper Tubing
Flexible Brazing Tip		Type17-9	31181	4	5	5	Up to 7/ <sub>8</sub> "
Twin Rosebud Heating Tip		*Type13-8VM	31161	60	25	15	4" - 12"

\*Tips must be used with a "B" 40 cu. ft. or larger acetylene cylinder. Fits 71 and WH550 Welding Handles. **TYPE17-9** 





Heat up all the fittings of a heat pump reversing valve at once for easy removal of 1 3/4" 4 3/4" the defective valve with the Tuning Fork Tip. Remove and **BENDABLE** install the new valve without COPPER altering the original **ELBOW** copper tube fittings. The Tuning Fork Tip has a bendable TYPE17TFT copper elbow that **Tuning Fork** makes it possible 8 Flame Tip to work efficiently in tight spaces and get U.S. Patent No. 6,471,114 even heat quickly in tough-to-reach areas. Welding **Brazing** Acetylene Oxygen Acetylene/Fuel Metal Consumption Pressure Pressure **Overall** Copper UPC# Part# SCFĤ **PSIG PSIG** Length Thickness Tubing **Tuning Fork Tip** Type17TFT 31175 5-10 10 7 12" N/A 7/8" Tuning Fork Tip fits 71 and WH550 welding handles. **Micro Tips** TES Micro Tips heat up to 5600°F, providing pinpoint brazing accuracy. MTW-1 **Stable** Adjustable MTR concentrated tip ends for flame even in MT maximum Pinpoint windy conditions control concentrated heat in tight spaces Acetylene **Oxygen** Acetylene/Fuel Welding Brazing Consumption Pressure Pressure **Overall** Metal Copper **UPC# PSIG PSIG** Thickness Part# SCFĤ Length Tubing 3" MTW-1 30551 2-3 5 5 3/64" 1/2" MTW-2 30552 2-4 5 5 3" 5/64" 1" **Micro Tips** MTT 4" N/A 1" 30560 4-6 5 5





30570

4-8

MTR

5 Micro 6000 tips fit 71 and WH550 welding handles.

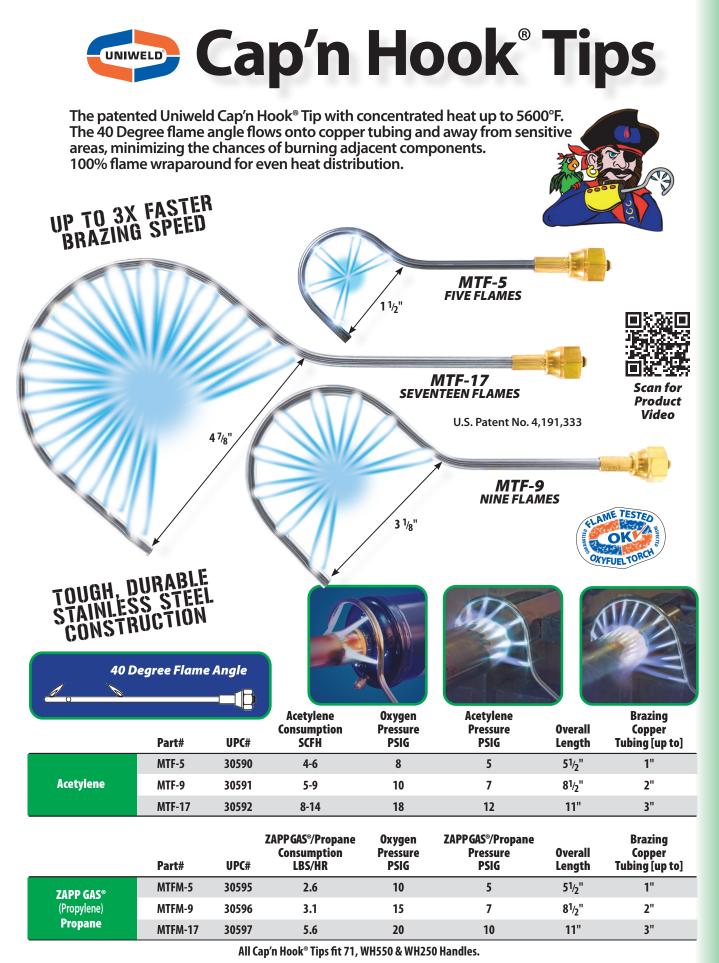
4"

N/A

1<sup>1</sup>/<sub>2</sub>"

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5







Air Acetylene Twister<sup>®</sup> Tips with swirl combustion technology uses a helical blade that creates a Twister Flame pattern that maximizes the BTU's and speeds up the heat transfer. Twister<sup>®</sup> Tips let you work with a stable, high energy efficient flame, even in windy conditions.





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17



Tank not included – sold separately

	Part#	UPC#	Regulator	Handle	Tips	Carrying Stands	Tanks*
	X3BU	89600	<b>RB Acetylene Regulator</b>		A-3, A-11 Twister® Tips	w/o	w/o
	X3BUC	89630	<b>RB</b> Acetylene Regulator		A-3, A-11 Twister® Tips	502	w/o
	X4BU	89628	<b>RB</b> Acetylene Regulator		A-5, A-14 Twister® Tips	w/o	w/o
	X4BUC	89634	<b>RB</b> Acetylene Regulator	TH6 Quick	A-5, A-14 Twister® Tips	502	w/o
0.11	X5BU	89620	<b>RB</b> Acetylene Regulator	Connect	A-5 Twister® Tip	w/o	w/o
Quick Connect	X5BUC	89632	<b>RB Acetylene Regulator</b>	Handle Rear	A-5 Twister® Tip	502	w/o
	X5MCU	89622	<b>RMC Acetylene Regulator</b>	Control Valve	A-5 Twister® Tip	w/o	w/o
	X5MCUC	89633	<b>RMC Acetylene Regulator</b>		A-5 Twister® Tip	512	w/o
	X6MCU	89603	<b>RMC Acetylene Regulator</b>		A-3, A-11 Twister® Tips	w/o	w/o
	X6MCUC	89631	<b>RMC Acetylene Regulator</b>		A-3, A-11 Twister® Tips	512	w/o
	X8BU	89629	<b>RB</b> Acetylene Regulator		A-8 Twister® Tip	w/o	w/o

Regulators fitted with protective rubber gauge boot. Kits include H12, 12 ft. Acetylene Hose, W05 Tank Key w/chain.





Twister<sup>®</sup> Ignite Kits feature self igniting swirl combustion technology that produces a high energy efficient flame. The Air Acetylene flame remains stable, even in windy condtions. Twister<sup>®</sup> Ignite Tips are self-igniting and "guick connects" to the ergonomically designed handle.





**KT2A5** 



KT2A8XMCC

Tank not included – sold separately

ink not inclu	ded – sold sep	arately			lank not included – sold separa		
	Part#	UPC#	Regulator	Handle	Tips	<b>Carrying Stands</b>	Tanks*
	KT2A5	89650	<b>RB</b> Acetylene Regulator		T2A-5	w/o	w/o
	KT2A5MC	89652	<b>RMC Acetylene Regulator</b>	TH6	Twister® Tip	w/o	w/o
	KT2A8	89656	<b>RB</b> Acetylene Regulator	Connect Pr Handle r With Rear r Control	T2A-8	w/o	w/o
Quick	KT2A8MC	89657	<b>RMC Acetylene Regulator</b>			w/o	w/o
Connect	KT2A8X	89658	<b>RB</b> Acetylene Regulator		T2A-8	w/o	w/o
	KT2A8XC	89661	<b>RB</b> Acetylene Regulator			502	w/o
	KT2A8XMC	89659	<b>RMC Acetylene Regulator</b>	Valve	A-5	w/o	w/o
	KT2A8XMCC	89662	<b>RMC Acetylene Regulator</b>			512	w/o

**Regulators fitted with protective rubber gauge boot.** Kits include H12, 12 ft. Acetylene Hose, W05 Tank Key w/chain.

					<b>UTE TIPS</b>
	Part#	UPC#	Copper Tubi Solder	ing Capacity Braze	e e e e
	T2A-3	43050	Up to 1"	Up to ½"	
Quick	T2A-5	43051	<sup>3</sup> / <sub>4</sub> " to 1 <sup>1</sup> / <sub>2</sub> "	<sup>1</sup> / <sub>4</sub> " to <sup>3</sup> / <sub>4</sub> "	
Connect	T2A-8	43052	1" to 2"	1⁄2" to 1"	Y Y Y
	T2A-12	43063	1 <sup>1</sup> / <sub>4</sub> " to 4"	<sup>7</sup> / <sub>8</sub> " to 2"	Tay Tay Tay







K37

The Air/Acetylene Soft Flame has always been the "Old Reliable" flame tool for plumbers, producing a precise 2700°F target heat. An excellent tool for soldering copper tubing.



K40

	Part#	UPC#	Regulator	Tips	Handle
	K37	89100	<b>RB</b> Acetylene Regulator	S23 Soft Flame Tip	TH3 Rear Control Valve
Screw	K38	89101	<b>RMC Acetylene Regulator</b>	S23 Soft Flame Tip	TH3 Rear Control Valve
Connect	K40	89102	<b>RMC Acetylene Regulator</b>	S23 Soft Flame Tip	<b>TH9 Front Control Valve</b>
	K41	89103	<b>RB</b> Acetylene Regulator	S23 Soft Flame Tip	TH9 Front Control Valve

Kits Include H12, 12 ft. Acetylene Hose, W05 Tank Key w/chain. **Regulators fitted with protective rubber gauge boots.** 

## Soft Flame Tips

TEST

**S27** 



	Part#	UPC#	Copper Tubing Capacity Solder
	S21	43141	1/ <sub>16</sub> " to 1/ <sub>8</sub> "
	S22	43142	<sup>1</sup> / <sub>8</sub> " to <sup>3</sup> / <sub>8</sub> "
	S23	43143	<sup>3</sup> / <sub>16</sub> " to <sup>1</sup> / <sub>2</sub> "
Screw Connect	S24	43144	<sup>1</sup> /2" to 1"
Connect	S25	43145	<sup>3</sup> / <sub>4</sub> " to 1 <sup>1</sup> / <sub>2</sub> "
	S26	43146	1" to 4"
	S27	43147	<sup>1</sup> /8" to <sup>3</sup> /8"





The popular LP Twister<sup>®</sup> is a favorite tool among tradesmen in Plumbing and Heating. The Uniweld swirl combustion tips produce a high energy efficient flame for soldering that remains stable in windy conditions. The helical blade inside this tip efficiently premixes the fuel gas and air to deliver maximum combustion and fast heat transfer. Use these tips with Propane or ZAPP GAS<sup>®</sup> (Propylene).





## Heat Shrink Kits/Tips

These kits feature specifically designed tips for heat shrink tubing in the telecommunications field. You'll achieve a soft, wraparound flame that spreads the heat quickly and evenly without overheating. The air and fuel gas mix produces a bright yellow, highly visible flame. Use with either Propane or ZAPP GAS<sup>®</sup> (Propylene) without having to change the orifice.

	KCA110	Extreme Prestop Contented Carton He	A COLOR OF	CLANKE TESTE CLANKE TESTE CLANKE TESTE CLANKE TESTE		STO7M	D6MP		
/		Part#	Alberter) 125 PG (36 MPH 147 MM	Regulator	Tips	Handle	*Hose	Size	
	Heat Shrink Kits	KCA110	89300	RP3A	ST06MP	TH9	HLP11SS	1" O.D. Flame Shield	
		KCA111	89301	RP3A	ST07MP	TH9	HLP11SS	1 <sup>1</sup> / <sub>2</sub> " O.D. Flame Shield	_
		*6 ft. hose v	vith SHLP Ho	se Spring [see p	age 26]. Dispo	sable cylinder	is not included	in kits and is sold separately.	

	•		•
Part#	UPC#	Description	
CTACHID	12475		

ST06MP 43175	Propane / ZAPP GAS $^{\circ}$ 9" elbow with a 1″ 0.D. Flame Shield		
Heat Shrink Tips Screw Connect	ST07MP	43177	Propane / ZAPP GAS $^{\circ}~$ 9" elbow with a $11\!\!/_2''$ O.D. Flame Shield
Sciew connect	ST07RSM	43178	Propane / ZAPP GAS $^{\circ}$ 7" elbow with a $11\!\!/_2$ " 0.D. Flame Shield

## Unitorch<sup>®</sup> Regulators for Disposable Cylinders

The safest regulator available for disposable cylinders. A piston inside the regulator eliminates leakage problems. Operates in an upside down position (tip size, time, temperature and contents dependent).

RP	3A			
	Part#	UPC#	CGA Inlet	Description
	RP3A	43000	600	Unitorch® Regulator with "A" outlet fitting
	RP3B	43001	600	Unitorch® Regulator with "B" outlet fitting
Unitorch®	<b>RP3E</b>	43002	600	Unitorch® Regulator with 360° swivel elbow for use with UT2, UT3, UT5 and UT6 replacement tips
Regulators	RP03A	43003	601	Unitorch® Oxygen Regulator with "A" outlet fitting
	RP03B	43009	601	Unitorch® Oxygen Regulator with "B″ outlet fitting
	<b>RPO3HN</b>	43045	601	Unitorch® Oxygen Regulator with ¼" barbed hose nipple



ALL STREET



Uniweld Hand Torches are the right choice for small jobs in tight areas with limited access. These lightweight, portable flametools can be operated with Propane or ZAPP GAS.®



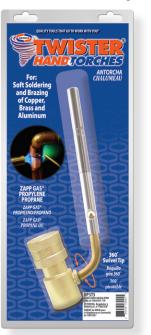
#### **PCV25 Pencil Flame** Hand Torch

Adjustable pencil point flame for soldering copper tubing and thawing frozen pipes.



#### RP3T5 **Hand Torch**

LP Twister® Tip utilizes swirl combustion technology to produce a high energy efficient flame. The flame remains stable in windy conditions. **RP3E Unitorch Regulator** with swivel elbow and UT5 Twister® Tip





## DOUBLE THE POWER DOUBLE THE HEAT

RP3T2 **Hand Torch UT2** Double Twister® Tip





## TRIPLE THE POWER TRIPLE THE HEAT

RP3T3 **Hand Torch** UT3 Triple Twister<sup>®</sup> Tip



ALITY TOOLS THAT GO TO UNIWELD

> ERING & BRAZING WITH

COMBUSTION TWISTER® TIP

VIRT C

MKT-4L

			Tubing Capacity							
			Pro	pane	ZAPP	GAS®				
	Part#	UPC#	Solder	Braze	Solder	Braze				
	PCV25	43210	Up to 7/ <sub>8</sub> "	Up to <sup>3</sup> /8"	Up to 1"	Up to 5⁄8"				
	RP3T2	43007	Up to 31/2"	Up to 2"	Up to 4"	Up to 3"				
Hand Torches	RP3T3	43008	Up to 4"	Up to 2 <sup>1</sup> / <sub>2</sub> "	Up to 6"	Up to 4"				
	RP3T5	43005	Up to 3"	Up to 1"	Up to 4"	Up to 1 <sup>3</sup> /4"				
	MKT-4L	89501	Up to 3"	Up to 1"	Up to 4"	Up to 13⁄4				

MKT-4L includes RP3T5 Hand Torch with (1) ZAPP GAS® disposable cylinder. Shipped in display box [6] per case.











Rugged, ergonomically designed air/fuel torch handles provide you with better grip, balance and comfort. Handle options include screw connect or quick connect, "A" or "B" inlet connections and front or rear control valves.

### **QUICK CONNECT HANDLE**



## **SCREW CONNECT HANDLES**





### Air/Acetylene Gas "A" (3/8" -24) L.H. Inlet Connection

	Part#	UPC#	
Screw Connect	TH3	43100	Rear Valve
Strew connect	TH9	43113	Front Valve
Quick Connect	TH6	43107	<b>Rear Valve</b>

#### Air/LP Gas "B" (9/16" -18) L.H. Inlet Connection

	Part#	UPC#	
Screw Connect	TH3B	43101	Rear Valve
Sciew connect	TH9B	43114	Front Valve
Quick Connect	TH6B	43108	Rear Valve





Uniweld flexible Oxyfuel Hoses are color coded, have 8-sided crimp ferrules and are capable of withstanding high working pressures for a reliable long service life.

Reference Information: "A" = 3/8" - 24 "B" = 9/16" - 18



Hose Spring (Part#SHLP) may be added to Acetylene or LP gas hoses by adding an (S) for one spring or (SS) for two springs (one @ each end) to the hose Part#. Example: H12S, H12SS, HLP14BS, HLP14BSS

Acetylene Single Hose 3/16" I.D., Max. W.P. 200 psi							Gas Single I D., Max. W.		si
	Part#	UPC#	Length	Connection		Part#	UPC#	Length	Connection
	H11	43500	6 ft.	"A"		HLP10	43530	3 ft.	"A"
	H11B	43501	6 ft.	" <b>B</b> "		HLP10B	43531	3 ft.	" <b>B</b> "
cetylene Single	H12	43502	12 ft.	" <b>A</b> "		HLP11	43533	6 ft.	"A"
Hose	H12B	43503	12 ft.	"B"	LP Gas Single	HLP11B	43534	6 ft.	"B"
	H13	43504	25 ft.	" <b>A</b> "	Hose	HLP13	43537	25 ft.	"A"
	H13B	43505	25 ft.	" <b>B</b> "		HLP13B	43538	25 ft.	"B"
	*"AB" - "A" 1	fitted one end, "	'B" fitted opp	osite end		HLP14	43541	12 ft.	"A"

#### Oxyacetylene Twin Hose 3/16" I.D., Max. W.P. 200 psi

Ac

	-,		···· · = · · · p···	
	Part#	UPC#	Length	Connectio
	H32A	43510	12 ft.	"A"
	H32B	43512	12 ft.	"B"
	H32AB	43511	12 ft.	"AB*"
Oxyacet. Twin	H33A	43513	25 ft.	"A"
Hose	H33B	43515	25 ft.	"B"
	H33AB	43514	25 ft.	"AB*"
	H34A	43516	50 ft.	"A"
	H34B	43517	50 ft.	"B"

\*"AB" - "A" fitted one end, "B" fitted opposite end

## UNIWELD

Uniweld Products, Inc. Fort Lauderdale, FL 33312 U.S.A. Customer Service: 800.323.2111 info@uniweld.com • www.uniweld.com

HLP14B

Part#

H<sub>32</sub>AT

H32BT

H32ABT

Oxy/LP Grade "T"

**Twin Hose** 

43542

**Oxy/LP Gas Grade "T" Twin Hose** 

3/16" I.D., Max. W.P. 200 psi

**UPC#** 

43560

43561

43562

12 ft.

12 ft.

12 ft.

12 ft.

\*"AB" - "A" fitted one end, "B" fitted opposite end

**"B**"

"A"

"B"

"AB\*"

H32AT

**Length Connection** 

HLP14B



Patriot Series Regulators feature protective rubber gauge boots, rear inlet service with optional CGA cylinder connections. Specially compounded diaphragm and seat material provide accuracy and reliability. Patriot oxygen regulators have been upgraded with a reseatable pressure relief valve (Part# R96RK) designed to prevent regulator failure from abrupt tank pressure.

RUBBER BOOTS Outlet	Delivery
Part# UPC# CGA Inlet Connection 1½" Delivery/Contents	PSI
RO 12000 540 "A" RH [G49D] 100/4000 [G56D]	2-60
Oxygen ROB 12001 540 "B" RH [G49D] 100/4000 [G56D]	2-60
RMC 12006 200 "A" LH Contents [G19D]	2-15
UL         RMC2         12007         200         "A" LH         [G15D]         30/Contents         [G19D]	2-15
Acetylene RMC2B 12019 200 "B" LH [G15D] 30/Contents [G19D	2-15
RB 12010 520 "A" LH Contents [G19D]	2-15
RB2 12011 520 "A" LH [G15D] 30/Contents [G19D	2-15
RB2B 12020 520 "B" LH [G15D] 30/Contents [G19D	2-15
Reseatable RLP Fuel Gas RLP 12014 510 "A" LH 60 Delivery [G83D]	2-40
Reseatable Pressure Relief Valve	2-40

## FV600 Fuel Valve Adapter

Fuel Valve Adapter to connect a Uniweld Acetylene MC Regulator (CGA200) to a disposable fuel cylinder (CGA600). All Uniweld Acetylene regulator diaphragms and seals are compatible for use with either ZAPP GAS<sup>®</sup> (Propylene) or Propane fuel gas.

RO



The Uniweld 71 welding handle & Type17 Weld/Braze tips will work properly using either of the fuel gases combined with Oxygen. The CA550 cutting attachment will also work with either fuel gas. However, the cutting tip is fuel specific and must be changed (see page 13). Also, the Cap'n Hook® tips are fuel specific. (see page 16). It is recommended to use grade "T" hose (H32AT) with ZAPP GAS<sup>®</sup> or Propane fuel gas. If using grade "R" hose (H32A) with ZAPP GAS<sup>®</sup> or Propane fuel gas, it must never be used in extremely cold temperatures below -10°F. This may cause the fuel gas to liquefy and act as a solvent that will attack the internal hose material. Always bleed off the remaining fuel gas in the hose after each use.

WARNING!: Fuel compatibility with other manufacturer's Acetylene regulators must be determined prior to use. If not compatible, another option is to replace the Acetylene regulator with an RP3A regulator.

There will be a noticeable performance and temperature difference when using Propane or ZAPP GAS® versus Acetylene and an increase in oxygen consumption.

Fuel	Temp °F	Ratio Oxy/Fue
Acetylene	5589 °F	1-1
ZAPP GAS®	5193 °F	3.5-1
Propane	4579°F	4-1

It is highly recommended to use a Type17-3 or larger tip for brazing 3/8" and 7/8" copper line sets.





(Part #R96RK)

27





GAUGES WITH ROTECTIV RUBBER BOOTS

Ű

Listed



### **Centurion**®

Centurion<sup>®</sup> Series Regulators feature a rugged brass body and gauges with protective rubber gauge boots. Centurion<sup>®</sup> oxygen regulators with reseatable pressure relief valve built into the diaphragm is designed to prevent regulator failure from abrupt tank pressure.

(Part# R0123A Pressure Adjusting "T" Handle)

Mastar® Uniweld's top-of-the-line, Mastar® Series Regulators feature a heavy duty rugged brass body, 3" pressure adjusting "T" handle and gauges with protective rubber boots. Mastar® oxygen regulators with reseatable pressure relief valve (Part# R96RK), designed to prevent regulator failure from abrupt tank pressure.

RSO

		Part#	UPC#	CGA Inlet	<b>Outlet Connection</b>	Delivery 1½" Gauges/Contents	<b>Delivery PSI</b>
Centurion®	Oxygen	R0100	14100	540	"A" RH	[G49D] 100/4000 [G56D]	2-60
	Acetylene	RMC100	14102	200	"A" LH	[G15D] 30/Contents [G19D]	2-15
	Oxygen	RSO	12100	540	"A" RH	[G49D] 100/4000 [G56D]	2-60
		RSOB	12101	540	"B" RH	[G49D] 100/4000 [G56D]	2-60
		12106	12106	540	"A" RH	[psi/kg] [G85-1D] 100/4000 [G82-1D]	2-60
Mastar®	Acetylene	RSMC2	12102	200	"A" LH	[G15D] 30/Contents [G19D]	2-15
		RSMC2B	12103	200	"B" LH	[G15D] 30/Contents [G19D]	2-15
		RSB2	12104	520	"A" LH	[G15D] 30/ Contents [G19D]	2-15
		RSB2B	12105	520	"B" LH	[G15D] 30/Contents [G19D]	2-15
		12107	12107	520	"A" LH	[psi/kg] [G79-1D] 30/400 [G73-1D]	2-15

All regulators with "A"  $\frac{3}{8}$ " - 24 outlet fittings are available with "B"  $\frac{9}{16}$ " - 18 outlet fittings. To order, add "B" to the Part Number. Pressure relief devices are not designed to protect downstream equipment.

#### Replacement Gauges 1<sup>1</sup>/<sub>2</sub>" Gauges [<sup>1</sup>/<sub>8</sub>" NPT] with Protective Rubber Boots Acetylene **Oxygen** G15D 30 psi, Steel Case, Red Line 15-30 psi G49D 100 psi, Steel Case G56D 4000 psi, Steel Case G19D 1/4, 1/2, 3/4, Full [Contents] Steel Case, [400 psi Max] GB15S Protective Rubber Boot for all 11/2" Gauges [Pkg. of 2] **G49D** G19D UNIWELD

## CGA Cylinder Valve Connections UNIWELD

		Part#	Description		CGA200	
		MC24	Nut		.625" - 20 NGO-R.H.	
	"MC" Tank	MC52	Nipple	Acetylene	7/ <sub>16</sub> " - 20 UNF, 1 <sup>1</sup> / <sub>8</sub> " Long [R]	
	MC TUIK	Used on:	RMC Approx. 10 cu. ft. cyli	nder only		
		Part#	Description			
		8159-4	Nut		.830" - 14 NGO-R.H.	
	"CA" Tank	11A05	Nipple	Acetylene	<sup>7</sup> / <sub>16</sub> " - 20 UNF, 1 <sup>5</sup> / <sub>16</sub> " Long [R]	
		8112-3	Nipple		<sup>1</sup> / <sub>4</sub> " - 18 NPT, 1 <sup>5</sup> / <sub>16</sub> " Long [RUH]	
			R, RUH, RHG, RHT, RVT, MF			
		Part#	Description		CGA320	
		8159-3	Nut	Carbon	.830" - 14 NGO-R.H.	
		8312	Nipple	Dioxide	<sup>1</sup> / <sub>4</sub> " -18 NPT, 2" Long	
		X09R	0-Ring		[Do not use with Gasket]	
				[300 [CO <sub>2</sub> ] Use "O-Ring X09	R only for 8312 Nipple, Not Gasket"	
		Part# 8959	Description Nut		CGA346 .830" - 14 NGO-R.H.	
				Air		
		1805	Nipple		<sup>1</sup> / <sub>4</sub> " -18 NPT, 2 <sup>1</sup> / <sub>2</sub> " Long	
		Used on:	RV, RVT, RHT, RUH, R1800			
		Part#	Description		CGA350	
		8859	Nut	Hydrogen	.830" - 14 NGO-L.H.	
		8812-2	Nipple	nyurogen	1/4" <b>-18 NPT, 2</b> 1/2" Long	
		Used on:	RV, RVT, RHT, RUH, R1800			
		Part# Description CGA510				
		8159-2	Nut		.880" - 14 NGO-L.H.	
		1205	Nipple	Acetylene and	7/ <sub>16</sub> " - 20 UNF 2 <sup>3</sup> / <sub>16</sub> " Long [R]	The second secon
	"POL" Tank	1205-2	Nipple	Fuel Gas	$\frac{1}{4}$ " - 18 NPT, $2^{13}/_{32}$ " Long [MR]	
		8112-2	Nipple		<sup>1</sup> / <sub>4</sub> " - 18 NPT, 3 <sup>3</sup> / <sub>16</sub> " Long [RV, RUH]	
		Used on: R, F	RUH, RHT, RHG, RV, RVT, MR			
		Part#	Description			
		B10	Nut		.899" - 18 NGO-R.H.	7772
-	"B" Tank	B51	Nipple	Acetylene	7/ <sub>16</sub> " - 20 UNF 11/ <sub>4</sub> " Long [R]	
	Diank	RU12-2	Nipple		<sup>1</sup> / <sub>4</sub> " - 18 NPT, 2 <sup>3</sup> / <sub>8</sub> " Long [MR, RUH]	
ylene		Used on:				
'B"		Part#	Description		CGA540	
ink		8059-2	Nut		.908" - 14 NGO-R.H.	
*	<b>.</b>	1005-3*	Nipple	Oxygen	$\frac{7}{16}$ " - 20 UNF 1 <sup>19</sup> / <sub>32</sub> " Long [R]	
		8012-2	Nipple	Only	<sup>1</sup> / <sub>4</sub> " - 18 NPT, 2" Long [RV]	
		RU12	Nipple		<sup>1</sup> / <sub>4</sub> " - 18 NPT, 2 <sup>9</sup> / <sub>16</sub> Long [RUH]	
	tylene	Used on: M	R, RHG, RHT, RV,RVT, RUH Reg			
	'ŃC" Ford	Part#	Description		CGA580	
	lank 🛛	8759	Nut		.960" - 14 NGO-R.H.	
		1205	Nipple	Argon Helium	<sup>7</sup> / <sub>16</sub> " - 20 UNF 2 <sup>3</sup> / <sub>16</sub> " Long [R]	
		1205-2	Nipple	Nitrogen	$\frac{1}{4}$ - 18 NPT, 2 <sup>13</sup> / <sub>32</sub> " Long [CEF]	
		8112-2	Nipple		<sup>1</sup> / <sub>4</sub> " - 18 NPT, 3 <sup>3</sup> / <sub>16</sub> Long [RHF, RHFG]	
-		Used on: RUI	H, RV, RVT, RHF, CEF, RHT, RHFG, R1	500 [Ni], RAR, R15NI Regulat	ors Alternative Connections: CGA590 [LH], CGA555 [LH] on Request	Source: Compressed Gas Assoc.,Std. V-1, 1994
					CONSTOLED), CONSSS [ED] ON REQUEST	



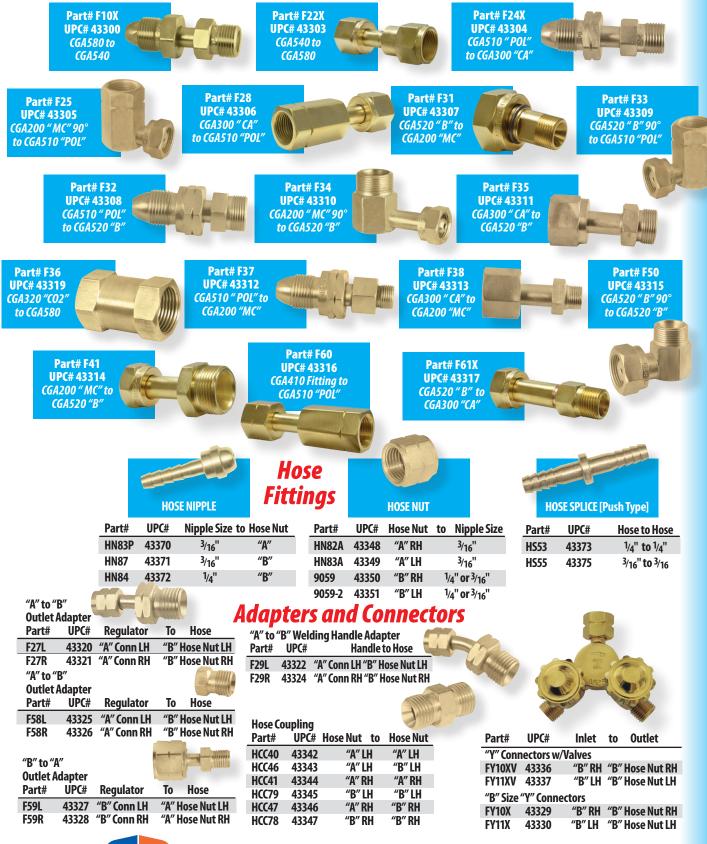
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Acety "B Tai

29



## **Cylinder to Regulator Adapters**



**Parts & Accessories** 



\*Sold in case lot quantity only - 12 per case and 24 per case. Disposable Propane and ZAPP GAS® cylinders are shipped full and meet DOT-39 NRC specifications. All Acetylene, Oxygen and Nitrogen tanks are shipped empty.

## **Cylinder Contents Test Gauge**



Protect yourself against shortages by checking the cylinder contents with a Test Gauge.

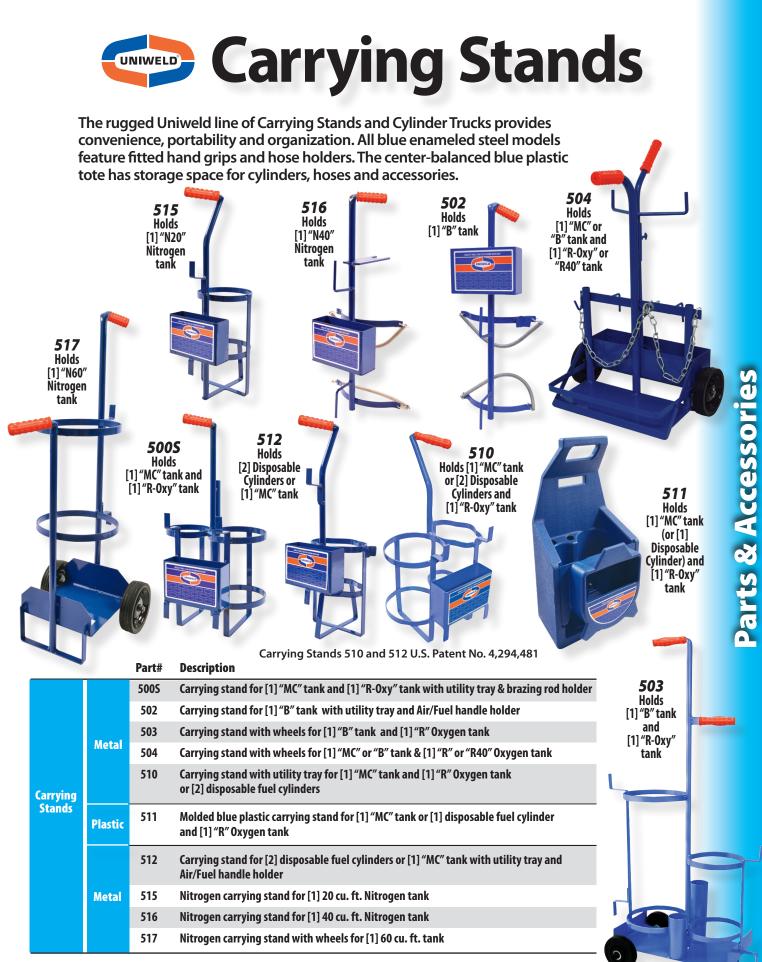
Reading of Contents: • Oxygen Pressure 1800-2200 PSI cetylene Contents 1/c, 1/c, 3/c or FII

Acetylene Contents ¼, ¼, ¼, ¾ or FULL
 Nitrogen Pressure 1800-2200 PSI

Part#	UPC#	Description
TGCB	41250	"B" Tank Test Gauge
TGCMC	41251	"MC" Tank Test Gauge
TGCN	41252	Nitrogen Tank Test Gauge
TGC0	41253	Oxygen Tank Test Gauge



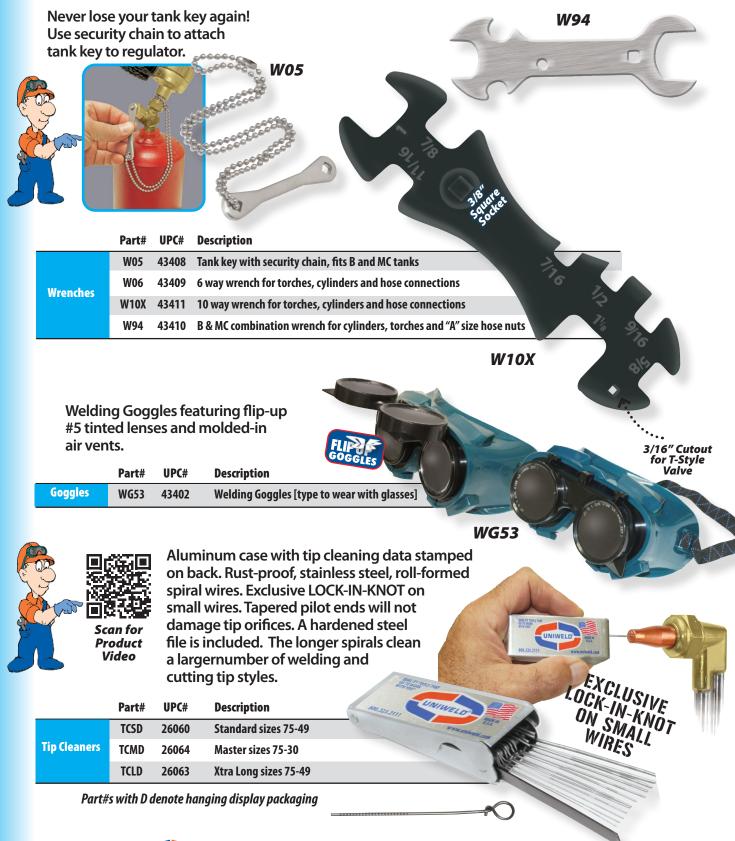








Complete selection of combination wrenches for hose fittings and regulator connections.



33





The Uniweld flint lighters and flint renewals are made in the U.S.A.



flame torches. Optional single or triple flint lighters and renewals to choose from.

	Part#	UPC#	Description
	FL34	43404	Flint lighter [boxed: 10 units]
	FL34D	43437	Flint lighter on display card
	FL3437	43403	Flint lighter with 5 flint renewals on card
Flint Lighters	FL3437TC	43419	Tip cleaner set and flint lighter with 5 flint renewals
	FL35	43406	Triple flint lighter on display card
	FL36	43407	One 3 flint renewal unit for FL35 flint lighter
	FL37	43405	5 Flint renewals for FL34 flint lighter





### **Regulator Flashback Arrestors**









TFAA



## **Flashback Arrestors**

Flashback Arrestors guench backfire and flashback at the torch or regulator. Uniweld's Flashback Arrestors also have built-in check valves to prevent reverse flow of gases. They are color coded: Green [Oxygen]; Red [Fuel Gas] and are available for welding handles and regulators.





<u>p</u>	
7123250 FOC	strates and check when Gran 23(5) S · Do r S Fuel 50 PSIG
FLASH ARRESTO REGULATOR MOR 9/16"x18 RH *8'1 OXYGEN 143 PSC ISO 5175-1 [FAIR ISO 5175-1	FLASH ARREST REGULATOR KO 9/16"x18 LHT 8" ACCTYLENE 9 FUEL GASES 9 ISO 5175-1 [FAIL

RFAB

RCVB

		<sup>3</sup> /8″ - 24	4 "A" Fittin	g	% <sub>16</sub> " - 18 "B" Fitting*				
Flashback	Regulator		Welding	Welding Handle		Regulator		Handle	
Arrestors	Part#	UPC#	Part#	UPC#	Part#	UPC#	Part#	UPC#	
Single Oxygen	RFAM100	10211	TFAM100	04061	<b>RFA100</b>	10206	<b>TFA100</b>	04056	
Single Fuel	RFAM101	10212	TFAM101	04062	RFA101	10207	TFA101	04057	
Set of [2] on card	RFAA	10210	TFAA	04060	RFAB	10205	TFAB	04055	
[1] Oxy & [1] Fuel									

Non filtered flashback arrestors are available for welding handles and regulators. Flashback arrestors installed at the torch help protect the technician and at the regulator, help protect the equipment. \*UL Listed

# **Check Valves**

Check Valves provide protection against reverse flow of gases, but not flame flashback. Uniweld's Check Valves conform to OSHA safety standards, [\*UL Listed]. They're easy to install, test and service. Color coded: Green [Oxygen]; Red [Fuel Gas].

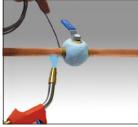
UNX			Regu	lator	Welding	Handle
	, CV100,	Check Valves 9⁄16" - 18 "B" Fittings*	Part#	UPC#	Part#	UPC#
		Set of [2] on card [1] Oxy &[1] Fuel	RCVB	10200	TCVB	04050

Check valves should be tested regularly for leakage and flow. Check valves on regulators give best service life. \*UL Listed





#### **Soldering Ball Valve**



**Brazing TXV Valve** 









- Absorbs damaging heat when brazing, soldering, or welding
- Protects the rubber and plastic seals during the installation of a sight glass, TXV valves, reversing valves, liquid line filter drier and ball valves
- Reusable up to 40 times
- Safe to use, harmless to skin and antimicrobial to prevent mold

	Part#	UPC#	Description
Cool Blue™	CBRP	91862	Cool Blue™ Heat Sink Putty
Heat Sink Putty			[Case quantity 6 units]

# **Cool Blue<sup>™</sup> Heat Sink Paste**

- Protects the rubber and plastic seals in ball valves, solenoid valves, reversing valves and heat sensitive materials
- Prevent overheating, a heat transfer cool indicator has been added
- As the paste absorbs heat, it changes to a dark blue
- Safe to use, non-toxic, harmless to skin and odorless
- Easy to clean: wipe with cloth or wash with water

	Part#	UPC#	Description
Cool Blue™	91861	91861	Cool Blue™ Heat Sink Paste
Heat Sink Paste			[Shipped in units of 12 only]



Product

Video



#### Trim to fit



Protect and braze



Uniweld Products, Inc. Fort Lauderdale, FL 33312 U.S.A. Customer Service: 800.323.2111 info@uniweld.com • www.uniweld.com

# Flame Barrier<sup>™</sup>

- Made with fire resistant material that provides a protective barrier between flammable surfaces and open flames when soldering or brazing
- Prevent costly fire damage to wood surfaces, wiring, sheetrock, paint and other surfaces
- Flame Barrier<sup>™</sup> will keep its structural integrity up to 2700°F with a melting temperature of 3200°F

	Part#	UPC#	Description
Flame Barrier™	FB12	43230	Flame Barrier™ 12" x 12"







The Uniweld *exclusive* HUMM•VAC<sup>®</sup> Pumps remove moisture and dehydrate a system quickly and efficiently. The all-metal, heavy duty chassis; powerful, quiet running dual voltage motor; lighter weight and ergonomically designed features make these pumps the #1 choice to go to work with you.







Uniweld's high-performance U5VP2 Vacuum Pump has been designed and engineered to provide you with reliable service and the latest in vacuum pump technology. The U5VP2 (5.5CFM) pump is built for deep vacuum service on automotive, residential and commercial A/C systems using CFC, HCFC, and HFC refrigerants in conjunction

with mineral oil, ester oil, alkybenzene oil and PAG oil as lubricants

oil ai	nd PAG oil as	s lubrica	ants.			1	(			— HA	NDLE W	ITH	
										NO	N-SLIP G	iRIP	
		L INTAKE I											
		nd 3/8" M		E							DUA	L VOLTA	GE
	WIT	H TETHER	ED CAPS								110V/2	20V PO	WER
											SELECT	FOR SWI	TCH
	OIL FILL	PORT AND	)										
	EXHAU	ST DOME		line.									
	LARGE						2			P	OWERFL	JL LOW I	DECIBEL
	CAPACITY OIL				-				•		FAN CO	OLED M	OTOR
	RESERVOIR												
	<b>NEJENVOI</b>			STITCOLS THAT GO TO WORK			-						
	LARGE			UNIVELD						Н	EAT DISF		
	SIGHT GLASS										MOTOR	FINS	
	FOR EASY OIL		OILIS										
	MONITORING						2						
				-OL LEV	EL					WI	DE STAB	LE BASE	WITH
	EA	<b>SY ACCESS</b>	;	2 STAGE						RUBB	ER FEET	FOR DUI	RABILITY
CE		DIL DRAIN		CLDE CUUM PILL			U	<b>I5VP2</b>		and	I VIBRA1	TION COL	ITROL
	-			USUN									
	Free Air	Number	Factory	Intake			<b>Power Cord</b>		Diı	mensio	ns	Wei	ght
	Displacement	of	Micron		Moto	r V	72" [1.83m]	Oil	In	ches [cı	m]		.[Kg]
Part#	CFM L/Min	Stages	Rating	[SAE]	H.P.	Voltage	Plug Type	Capacity	L	W	H	Net	Ship
		2	45	1. 11	1.	4400//2200		11 1 0	42.5		0.5	20.0	
U5VP2	5.5 155	2	15	$\frac{1}{4}$ " and $\frac{3}{8}$ "	1/2	110V/220V	U.SType B	11.1 Oz.	12.5	4	9.5	20.0	22.2
				Male Flare		50/60Hz		[350 ml]	[32.5]	[10]	[24]	[9.1]	[10.8]
										11			

## Ductless Mini-Split 1.5 CFM Vacuum Pump

The UVP1.5 (1.5CFM) pump is built for deep vacuum service on Ductless Mini-Splits and Automotive A/C Systems. A reliable mini-pump providing the latest in vacuum pump technology.

Part#	Free Air Displacement CFM L/Min	Number of Stages	Factory Micron Rating	Fittings	Motor H.P.	Voltage	Power Cord 72″ [1.83m] Plug Type	0il Capacity		nensio ches [ci W		Wei Lbs. Net	ght .[Kg] Ship
UVP1.5-110	1.43 40.5	2		<sup>1</sup> / <sub>4</sub> "Male Flare and <sup>1</sup> / <sub>2</sub> " Acme		110V 50/60Hz	U.SType B	4.7 Oz. [140 ml]	10.23 [26.0]	3.4 [9.0]	6.4 [16.5]	10.0 [4.5]	14 [6.3]
UVP1.5-220	1.43 40.5	2		<sup>1</sup> / <sub>4</sub> "Male Flare and <sup>1</sup> / <sub>2</sub> " Acme		220V 50/60Hz	U.SType B	4.7 Oz. [140 ml]	10.23 [26.0]	3.4 [9.0]	6.4 [16.5]	10.0 [4.5]	14 [6.3]

### **Premium Uniweld Vacuum Pump Oil** Uniweld's Vacuum Pump Oil is refined with excellent thermal stability for

maximum efficiency in any vacuum pump. For maximum pump performance, it is recommended that the oil be changed after every evacuation. Severely hydrotreated paraffinic ISO Viscosity Grade 46. Part# Description Part# Description





IJVP1.5

**CENTER BALANCED** 

UNIWELD







The MaxEvac<sup>™</sup> Kit MAXIMIZES your vacuum efficiency for faster evacuations. The large 1/2" diameter dedicated evacuation hoses **MAXIMIZE** the suction capacity of the vacuum pump. Smaller diameter hoses restrict flow and limit the vacuum pump from achieving its full suction capacity. The Y adapter provides a dual hose connection to any vacuum pump and the

20 micron rated valve core tools remove the restrictive high and low side valve cores to significantly increase flow. The metal hose protector keeps your hoses sealed and protects them from dirt and debris.



Uniweld UVG2 Digital Vacuum Gauge (sold separately) easily connects to the side port on the core tool for an accurate vacuum measurement MAXEVAC<sup>™</sup> Y ADAPTER PROVIDES A DUAL HOSE CONNECTION TO ANY VACUUM PUMP FOR MAXIMUM VACUUM EFFICIENCY



Remove restrictions and increase flow! MAXIMIZE Efficiency



VACUUM RATED TO **20** 

MICRONS

PART# MEPK14 MaxEvac<sup>™</sup> Pro Evacuation Kit Includes:

- (2) Black 6 ft. 1/2" MaxEvac™ Hose 3/8" x 1/4" Fittings
- (2) 1/4" Valve Core Removal Tools with 1/4" Side Port
- (2) Metal Hose Protectors 3/8" x 1/4"
  (1) V Adapter 2/9" FF x
- (1) Y Adapter 3/8" FF x (2) 3/8" MF
- (1) MaxEvac Durable Storage Bag







METAL HOSE PROTECTOR KEEPS HOSE SEALED AND PROTECTS FROM DIRT AND DEBRIS 1 included

with each MaxEvac Hose PART# MEHP



1/4"

3/8"



6 ft. LARGE 1/2" DEDICATED EVACUATION HOSE WITH 3/8" x 1/4" FITTINGS

#### VACUUM RATED TO 20 MICRONS

MAGNET 📈



The MaxEvac<sup>™</sup> Kit MAXIMIZES your vacuum efficiency for faster evacuations. The large 1/2" diameter dedicated evacuation hose MAXIMIZES the suction capacity of the vacuum pump. Smaller diameter hoses restrict flow and limit the vacuum pump from achieving its full suction capacity. The Y adapter (sold separately) provides a dual hose connection to any vacuum pump and the 20 micron rated valve core tool removes the restrictive high and low side valve cores to significantly increase flow. The metal hose protector keeps your hose sealed and protects it from dirt and debris.

#### PART# ACCESSORIES SOLD SEPARATELY

MECT14	1/4" VALVE CORE REMOVAL TOOL WITH 1/4" SIDE PORT FITTING
MECT516	R-410A MINI SPLIT 5/16" VALVE CORE REMOVAL TOOL WITH 1/4" SIDE PORT FITTING
MEXR	VALVE CORE EXTRACTOR ROD ASSEMBLY
MEH5	5 ft. (152cm) 1/2" MAXEVAC™ HOSE, 3/8" STR. X 1/4" STR., BLACK WITH MEHP HOSE PROTECTOR
MEH6	6 ft. (182cm) 1/2" MAXEVAC™ HOSE, 3/8" STR. X 1/4" STR., BLACK WITH MEHP HOSE PROTECTOR
UYA14	MAXEVAC™Y ADAPTER 1/4" FF X (2) 3/8" MF
UYA38	MAXEVAC™ Y ADAPTER 3/8" FF X (2) 3/8" MF
UYA12	MAXEVAC™Y ADAPTER 1/2" FF X (2) 3/8" MF
MEHP	MAXEVAC <sup>™</sup> METAL HOSE PROTECTOR 3/8" MF X 1/4" MF
MEBK14	MAXEVAC <sup>™</sup> BASIC EVACUATION KIT 1/4"
MEPK14	MAXEVAC <sup>™</sup> PRO EVACUATION KIT 1/4"

### Remove restrictions and increase flow! MAXIMIZE Efficiency



MaxEvac<sup>™</sup> Basic Evacuation Kit Includes: (1) Black 6 ft. 1/2" MaxEvac<sup>™</sup> Hose 3/8" x 1/4" Fittings (1) 1/4" Valve Core Removal Tool with 1/4" Side Port (1) Metal Hose Protector 3/8" x 1/4" 3/8" x 1/4"





ECH

UNITS

UVGA ADAPTER

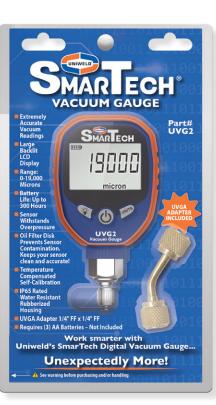
INCLUDED

micron

UVG2 Vacuum Gauge

### Work smarter with Uniweld's SmarTech® Digital Vacuum Gauge... Unexpectedly More!

- Range: 0-19,000 Microns, 2533.13 Pa, 25.3 mBar, 19 mmHg
- Resolution: 1 Micron (0-400), 10 Micron (400-3000), 100 Micron (3000-10000), 250 Micron (10000-19000)
- Temperature Compensated Self-Calibration
- Accuracy: +/- 10% or +/- 10 Micron
- Select from 8 different vacuum units: micron, inHg, Torr, psia, mbar, mTorr, Pa, kPa



- Operating Temperature: 0 °F to 140 °F / -17.8 °C to 60 °C
- Large, High-Visibility Backlit LCD Display
- Battery Life: Up to 300 Hours
- Battery Level Indicator
- Sensor Withstands Overpressure Up to 400 PSI
- Oil Filter Disk Prevents Sensor Contamination. Keeps your sensor clean and accurate!
- IP65 Rated Water Resistant Rubberized Housing
- Requires (3) AA Batteries Not Included



**HVAC/R** Tools





Base Stores and Protects Control Module

- Easy to read back lit display on control module.
- Durable storage bag with shoulder strap.
- Heavy duty rubber corner pads for added protection.

SPECIFICATIONS	USRS220	USRS330S	
Weight Capacity:	220 lb. (100 kg.)	330 lb. (150 kg.)	
Accuracy:	± 0.05% Reading + .4 oz. (10g)	$\pm$ 0.05% Reading + 1.0 oz. (25g)	(Artual)
Units of Measure:	lb., oz., kg.	lb., oz., kg.	
Resolution:	0.01 lb., 0.2 oz., 5g	0.01 lb., 0.2 oz., 5g	SMATTER
Operating Temperature:	-40°F - 104°F (-10°C - 40°C)	-40°F - 104°F (-10°C - 40°C)	
Dimensions:	10.7" x 10.7" (27.2cm x 27.2cm)	10.7" x 10.7" (27.2cm x 27.2cm)	
Platform Size:	10.7" x 10.7" (27.2cm x 27.2cm)	10.7" x 10.7" (27.2cm x 27.2cm)	The second
Battery Powered:	5 – AAA Batteries	5 – AAA Batteries	Programmable Solenoid Valve with USRS330S
			with USRS330S



Uniweld Products, Inc. Fort Lauderdale, FL 33312 U.S.A. Customer Service: 800.323.2111 info@uniweld.com • www.uniweld.com

ID FO

ZEROUNIT

LAM

# Locking Refrigerant Cap

- Made in the U.S.A.
- Two sizes 1/4" and 5/16" flare that is roll stamped onto the cap for size identification
- Machined from high quality brass and nickel plated for corrosion resistance
- Reduce potential liability for inhalation induced injury or death
- Deter refrigerant theft
- Helps prevent loss from cylinders and recovery tanks

#### Uniweld Locking Caps Meet International Safety Codes

#### International Mechanical Code 1101.10

Refrigerant circuit access ports located outdoors shall be fitted with locking-type tamper resistant caps.

#### International Residential Code M1411.6

Refrigerant circuit access ports located outdoors shall be fitted with locking-type tamper resistant caps.

1/4" LOCK	ING CAP	5/16" LOCKING CAP				
Part#	Description	Part#	Description			
ULRC14	Sold in units of 50 per box only	ULRC516-2	2 Pack			
ULRC14-2	2 Pack	ULRC516-10	10 Pack			
ULRC14-10	10 Pack	ULRC516-50	50 Pack			
ULRC14-50	50 Pack	Detent Dan die				





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Patent Pending

# **EZ Solution Injector**

EZ Solution Injector has a capacity of 4 fl. oz. and is used to inject oil additives or UV Dye into an air conditioning and refrigeration system.

- Compatible with all A/C and Refrigeration Oil and UV Dye
- Easy connection to manifold hoses
- Push Oil with refrigerant or high side system pressure
- Industrial rugged aluminum body and caps
- Maximum working pressure 800 psi
- Injector Cap with ¼" Male Flare fitting and valve core
- Ball valve with service hose and standard hose nut

Part#	Description
USI4EZ	EZ Solution Injector 4 oz. Capacity
USIRK	EZ Solution Injector (2) O-Ring Repair Kit



# Line Set Flush Actuating Valve

For use on disposable flush solvent cylinders with M11x.94 (7/16" - 27) connection. Safety Check Valve built into the 1/4" M.F. outlet connection prevents pressurizing the disposable cylinder.



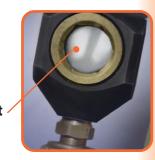




Absorbs heat naturally and flashes the liquid refrigerant from the cylinder and charges into the system as a vapor. Connecting the Vapor-Vue® to the low side of your charging manifold will increase the charging rate up to 8 times faster and the liquid is controlled by adjusting the manifold valve and monitoring the vapor rate through the double sight alass. Vapor-Vue<sup>®</sup> is factory pressure tested at 800 psi and can be used to charge any refrigeration & air conditioning system using R-410A, CFC, HCFC & HFC; Zeotropic and Azeotropic refrigerants without the danger of liquid slugging and damaging the compressor. Placing the manifold & Vapor-Vue<sup>®</sup> over hot discharge airflow of the condensing unit will increase the heat exchange and charging rate efficiency. Patent# 9,803,901







System Flush Kit Part #94184 rating Instruction

action

1/4" Male

Flare

Liquid

to Vapor

# A/C Flush Kit

The A/C Flush Kit is ideal for system flushing after compressor burnouts and will remove contaminants, moisture and acid from the evaporator and condenser. It is also used during retrofits and flushing R-22 line sets for R-410A conversions. The R-22 mineral oil based system is not compatible with the R-410A ester oil based system.

Special design features include:

- Pressure Relief Valve that opens at 180 to 190 PSI to protect the cylinder and equipment from overpressure.
- Blowgun with rubber tip nozzle for copper tubing 3/8" to 1 1/8" O.D.
- Reusable canister holds up to 18 oz.

Part#	Description	
94184	A/C System Flush Kit	
H2SSM	2 ft. Service Hose	
FG24A	A/C Rubber Tip Nozzle with $1/8$ " M.P.T. Fitting	
BG1ACA	Blowgun with A/C Rubber Tip Nozzle	94184

**Reseatable Pressure Relief Valve** Patent# 8,181,665





Spirit Manifold, designed and built right here in the U.S.A., proudly emphasizes the quality and the superior workmanship that signifies American Made. Lightweight extruded aluminum body and easy-grip handles for positive control; double O-ring piston valve for long reliable service; easy

access front hose holders; large easy-to-read 3<sup>1</sup>/<sub>8</sub>" steel case NPF<sup>®</sup> gauges with color-coded protective boots; High Pressure Soft Magic<sup>®</sup> Barrier Hose set with optional EZ-Turn Anti-Blowback or Ball Valve Fittings.

#### USAM5EZ

Part#	UPC#	Description
USAM	49200	2-Valve Spirit Manifold [No Hoses]
<b>USAM3H</b>	49241	2-Valve Spirit Manifold with 3ft. Hose Set
USAM5H	49242	2-Valve Spirit Manifold with 5ft. Hose Set
<b>USAM3BV</b>	49271	2-Valve Spirit Manifold with 3ft. Ball Valve Hose Set
USAM5BV	49272	2-Valve Spirit Manifold with 5ft. Ball Valve Hose Set
<b>USAM3EZ</b>	49211	2-Valve Spirit Manifold with 3ft. EZ-Turn Anti-Blowback Hose Set
USAM5EZ	49212	2-Valve Spirit Manifold with 5ft. EZ-Turn Anti-Blowback Hose Set





Other pressure and temperature scales are available upon request.



Uniweld Products, Inc. Fort Lauderdale, FL 33312 U.S.A. Customer Service: 800.323.2111 info@uniweld.com • www.uniweld.com **HVAC/R Tools** 

**G429ND Red**, Pressure

**G430ND Blue, Compound** 

#### Man, What a Manifold® 3 1/8" NPF® Gauges COLOR CUINED BAUGE R-410A/R-22/R-404A/R-134a 175 50 350 400 300 8 "MAN, WHAT A MANDOLDI" 800 pai 750 HVAC/R Tools Lens Plug for easy zero reset OS8N5SMEZ "MAN, WHAT A MANIFOLD!" OS8N The patented Uniweld forged brass body is manufactured with reseatable Teflon® valve stem packing for durability and leakproof reliability. These user-friendly, accurate, manifolds feature: • NPF<sup>®</sup> No Pointer Flutter<sup>®</sup> 3<sup>1</sup>/<sub>8</sub>", easy-to-read gauges with color coded refrigerant scales and color coded gauge boots • Metal [not plastic] hand wheels • Extended valve stems for ample knuckle clearance • Quick action **NPF**<sup>®</sup> valve assembly for <sup>1</sup>/<sub>2</sub> turn fully open or fully closed • Convenient 45° front hose holders Silicone High Pressure Soft Magic<sup>®</sup> Barrier Hoses with EZ-Turn Anti-Blowback or Ball Valve fittings. Dampened Man, What a Manifold! Movement R-410A/R-22/R-404A/R-134a-PSI/°F **UPC#** Description Part# QS8N 48600 2-Valve Brass Manifold [No Hoses] **OS8N3BV** 2-Valve Brass Manifold with 3ft. Ball Valve Hose Set 48619

R-410A/R-22/R-404A/R-134a Replacement Gauges 3½8" [80mm] G429ND Red, Pressure G430ND Blue, Compound



QS8N5BV

**OS8N6BV** 

**OS8N3SMEZ** 

OS8N5SMEZ

OS8N6SMEZ

48620

48621

48671

48672

48673

Other pressure and temperature scales are available upon request.

Uniweld Products, Inc. Fort Lauderdale, FL 33312 U.S.A. Customer Service: 800.323.2111

2-Valve Brass Manifold with 5ft. Ball Valve Hose Set

2-Valve Brass Manifold with 6ft. Ball Valve Hose Set

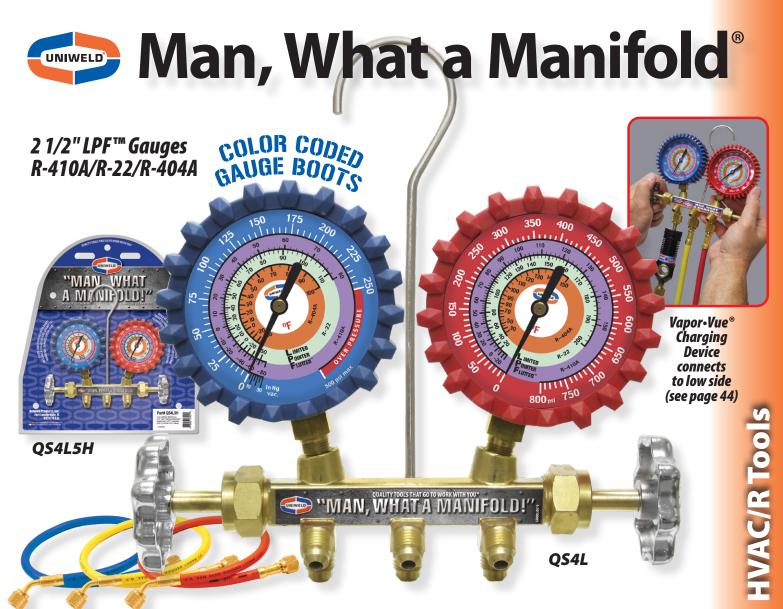
2-Valve Brass Manifold with 3ft. EZ-Turn Anti-Blowback Hose Set

2-Valve Brass Manifold with 5ft. EZ-Turn Anti-Blowback Hose Set

2-Valve Brass Manifold with 6ft. EZ-Turn Anti-Blowback Hose Set

info@uniweld.com • www.uniweld.com

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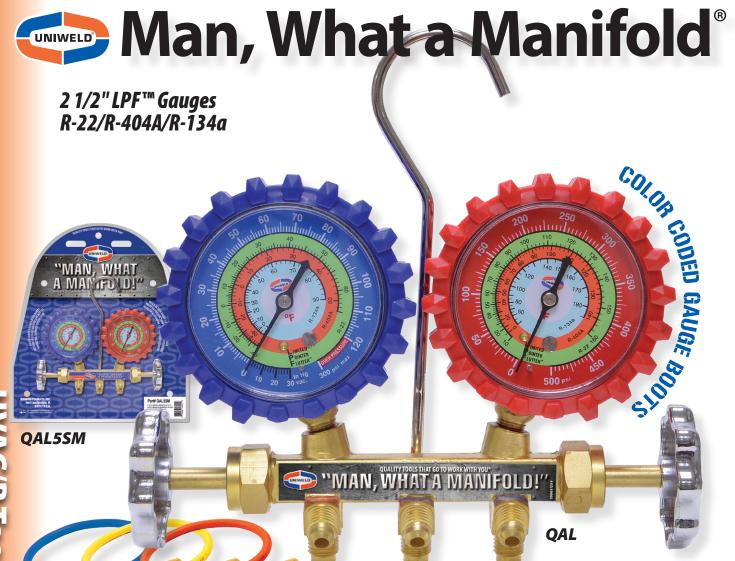


The patented Uniweld forged brass body is manufactured with reseatable Teflon® valve stem packing for durability and leakproof reliability. This user-friendly, accurate, manifold features: • Limited Pointer Flutter™, easy-to-read 2 ½" gauges with color coded refrigerant scales and color coded gauge boots • Metal [not plastic] hand wheels • Extended valve stems for ample knuckle clearance • Quick action valve assembly for ½ turn fully open or fully closed • Convenient 45° front hose holders • High Pressure Soft Magic® Barrier Hoses (*available with optional EZ-Turn anti-blowback fittings*). Man, What a Manifold!

Part#	UPC#	Description K-410A/K-22/K-404A-PSI/~F	
QS4L	47500	2-Valve Brass Manifold [No Hoses]	400 450 A
QS4L3H	47501	2-Valve Brass Manifold with 3ft. Hose Set	
QS4L5H	47502	2-Valve Brass Manifold with 5ft. Hose Set	
QS4L6H	47503	2-Valve Brass Manifold with 6ft. Hose Set	
QS4L3HBV	47416	2-Valve Brass Manifold with 3ft. Ball Valve Hose Set	
QS4L5HBV	47417	2-Valve Brass Manifold with 5ft. Ball Valve Hose Set	
QS4L6HBV	47418	2-Valve Brass Manifold with 6ft. Ball Valve Hose Set	
QS4L3HEZ	47411	2-Valve Brass Manifold with 3ft. EZ-Turn Anti-Blowback Hose Set	R-410A/R-22/R-404A
QS4L5HEZ	47412	2-Valve Brass Manifold with 5ft. EZ-Turn Anti-Blowback Hose Set	Replacement Gauges G529LD Red, Pressure
QS4L6HEZ	47413	2-Valve Brass Manifold with 6ft. EZ-Turn Anti-Blowback Hose Set	G530LD Blue, Compound
Oth an musses		nn avature scalas are available un an varuast	

Other pressure and temperature scales are available upon request.





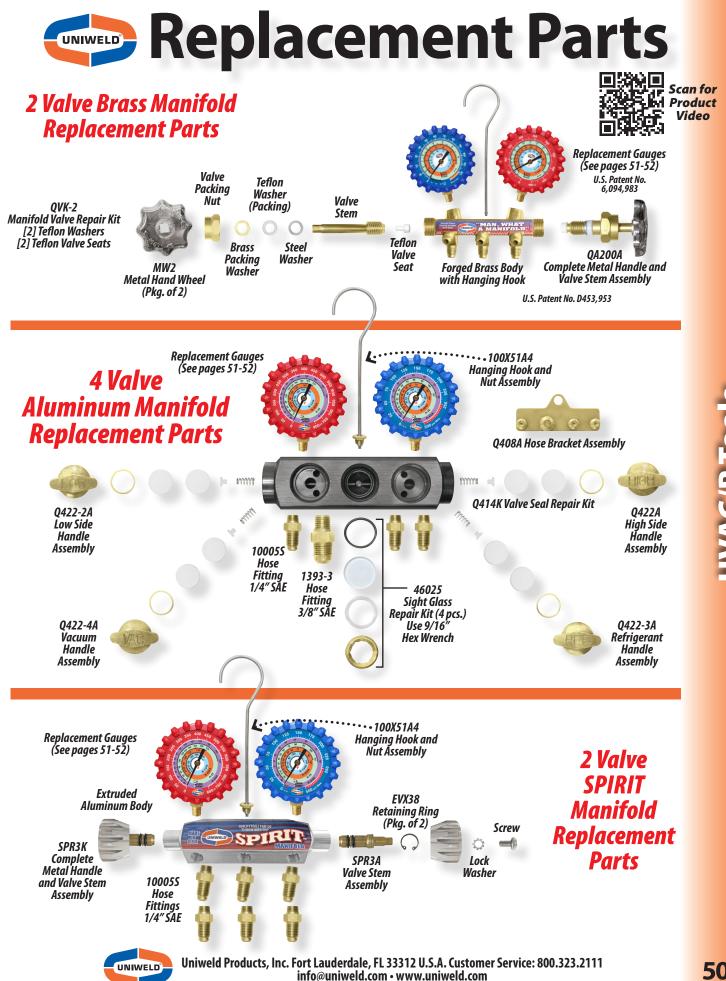
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Part#	UPC#	Description	R-22/R-404A/R-134a-PSI/°F
QAL	45050	2-Valve Brass I	Nanifold [No Hoses]
<b>QAL3SM</b>	48001	2-Valve Brass I	Manifold with 3ft. Hose Set
QAL5SM	48002	2-Valve Brass I	Manifold with 5ft. Hose Set
QAL6SM	48003	2-Valve Brass I	Manifold with 6ft. Hose Set
QAL5SMBV	48210	2-Valve Brass I	Nanifold with 5ft. Ball Valve Hose Set
QAL6SMBV	48211	2-Valve Brass I	Manifold with 6ft. Ball Valve Hose Set
QAL5SMEZ	48172	2-Valve Brass I	Nanifold with 5ft. EZ-Turn Anti-Blowback Hose Set
QAL6SMEZ	48173	2-Valve Brass	Nanifold with 6ft. EZ-Turn Anti-Blowback Hose Set

R-22/R-404A/R-134a Replacement Gauges G29LD Red, Pressure G30LD Blue, Compound

Other pressure and temperature scales are available upon request.

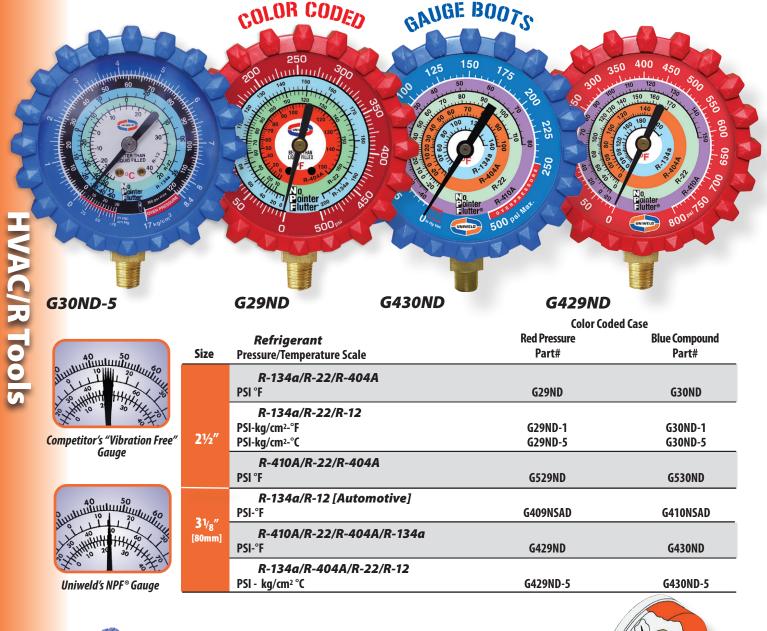


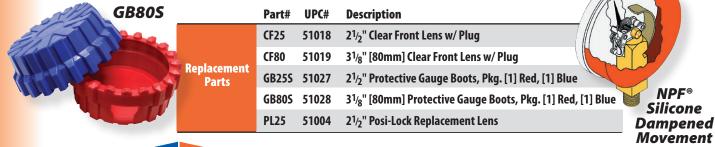


HVAC/R Tool



The original NPF® No Pointer Flutter® Gauges that provide steady and accurate pressure readings. The encapsulated silicone dampened movement seldom needs recalibration. The gauge is guaranteed not to leak fluid and not to lose dampening characteristics. Scales are printed in refrigerant colors.





51





Uniweld's 2<sup>1</sup>/<sub>2</sub>" LPF<sup>™</sup> Limited Pointer Flutter<sup>™</sup> Gauges with large, easy-to-read dial faces provide improved accuracy of pressure readings. Features include a high torque hair spring movement and a special pulsation dampener.





Competitor's "Vibration Free" Gauge



Uniweld's LPF™ Gauge

	Color Coo	led Case
Refrigerant	Red Pressure	Blue Compound
Pressure/Temperature Scale	Part#	Part#
R-22/R-404A/R-134a		
PSI °F	G29LD	G30LD
R-134a /R-12/R-22		
PSI-Kg/cm <sup>2</sup> -°F	G29LD-1	G30LD-1
PSI-Kg/cm <sup>2_°</sup> C	G29LD-5	G30LD-5
R-410A/R-22/R-404A		
PSI °F	G529LD	G530LD
PSI-Kg/cm <sup>2</sup> -°C	G529LD-5	G530LD-5
PSI-kPa °C	G529LD-6	G530LD-6
R-134a/R-12 [Automotive]		
PSI-°F	G9LAD	G10LAD
R-134a/R-404A/R-507		
PSI-Kg/cm <sup>2</sup> -°C	G9LD-5	G10LD-5
	Pressure/Temperature Scale         R-22/R-404A/R-134a         PSI °F         R-134a /R-12/R-22         PSI-Kg/cm <sup>2-°</sup> F         PSI-Kg/cm <sup>2-°</sup> C         R-410A/R-22/R-404A         PSI °F         PSI-Kg/cm <sup>2-°</sup> C         R-134a/R-12 [Automotive]         PSI-°F         PSI-°F         R-134a/R-12 [Automotive]         PSI-°F	Pressure/Temperature Scale         Part#           R-22/R-404A/R-134a         G29LD           PSI °F         G29LD           R-134a /R-12/R-22         G29LD-1           PSI-Kg/cm²-°F         G29LD-1           PSI-Kg/cm²-°F         G29LD-5           R-410A/R-22/R-404A         F           PSI °F         G529LD           PSI °F         G529LD           PSI °F         G529LD           PSI-Kg/cm²-°C         G529LD-5           PSI-Kg/cm²-°C         G529LD-5           PSI-kPa °C         G529LD-6           R-134a/R-12 [Automotive]         F           PSI-°F         G9LAD           R-134a/R-404A/R-507         F

GB25S		Part#	UPC#	Description
		CF25	51018	2 <sup>1</sup> / <sub>2</sub> " Clear Front Lens w/ Plug
	Replacement Parts	GB25S	51027	2 <sup>1</sup> / <sub>2</sub> " Protective Gauge Boots, Pkg. [1] Red, [1] Blue
Prover ANN		PL25	51004	2 <sup>1</sup> / <sub>2</sub> " Posi-Lock Replacement Lens



- Nylon Barrier Hose
- Maximum Working Pressure: 800 PSI
- Burst Pressure: 4000 PSI



#### Anatomy of the Soft Magic<sup>®</sup> Barrier Hose Large Deep Knurled Hose Nut Adjustable High Pressure Threaded **Eight Sided** Valve .. Crimp Depressor Color Coded Molded Cover Replacement **Two Safety** Gasket Venting Slots Rubber Permeation **Barrier Braid for** High Pressure Strength Nylon Permeation and **Moisture Barrier**

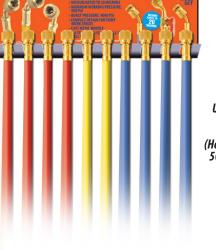
Red **Yellow** Blue Hose Set 1 Each R, Y, B Part# Part# Part# Length Part# 3 ft. 90cm **H3SMBR H3SMBY** H3SMBB HC3SMB Soft Magic<sup>®</sup> **Barrier Hoses H5SMBR H5SMBY H5SMBB HC5SMB** 5 ft. 150cm with **H6SMBB HC6SMB** 180cm **H6SMBR H6SMBY** 6 ft. Standard Fittings **H8SMBR H8SMBY H8SMBB** 8 ft. 240cm HDC5MB





	Part#	Description
Donla com ont	H1476	Pkg. of (6) Gaskets and (3) Depressors
Replacement Parts for	HX14N-10	Pkg. of (10) Gaskets
Soft Magic <sup>®</sup> Barrier Hoses	HX14N-100	Pkg. of (100) Gaskets
Darrier noses	H76S-10	Pkg. of (10) Valve Depressors









EZ Turn Anti-Blowback fitting has a thrust bearing that reduces friction so the service hose can be easily connected to the access fitting while under high pressure. Compact design fits in tight work spaces. Deep square knurling and textured orange and blue band for easy fingertip control!





U.S. PATENT No. 11,143,445 **International Patents Pending** 

EZAB

Maximum Working Pressure: 800 PSI Burst Pressure: 4000 PSI

			TURN HOS		<b>HOSE SETS</b>		"T" FITTIN	
	Length	Part#	Part#	Part#	Part#	Part#	Part#	Part#
1/4" EZ TURN	3 ft. 90cm	EZ3R	EZ3Y	EZ3B	EZ3HS	EZT3R	EZT3Y	EZT3B
ANTI-BLOWBACK	5 ft. 150cm	EZ5R	EZ5Y	EZ5B	EZ5HS	EZT5R	EZT5Y	EZT5B
FITTING	25 ft. 7.50m	EZ25R	EZ25Y	EZ25B	EZ5HDS	EZT25R	EZT25Y	EZT25B
R-410A Mini Split	3 ft. 90cm	<b>EZM3R</b>	EZM3Y	EZM3B	Hose Set: (3) 5 ft. 1/4" Hoses	EZTM3R	EZTM3Y	EZTM3B
5/16" EZ TURN FITTING (1/4" X 5/16")	5 ft. 150cm	EZM5R	EZM5Y	EZM5B	& (1) 5 ft. 3/8" Hose	EZTM5R	EZTM5Y	EZTM5B

Part#

EZAB

EZAB90

EZABM

Part#

**EZHRK** 

**EZHRKM** 

EZABM90

1/4"

5/16" R-410A Mini Split

> Replacement Parts

U.S. PATENT No. 9,383,046

**International Patents Pending** 



UHR Uniweld Hose Rack (Holds up to 50 Hoses)



Uniweld Products, Inc. Fort Lauderdale, FL 33312 U.S.A. Customer Service: 800.323.2111 info@uniweld.com • www.uniweld.com

(1) Square Seat • (2) O-Rings (1) Hose Gasket • (1) Spring

5/16" Mini Split Rebuild Kit: (1) Anti-Blowback Depressor

(1) Square Seat • (2) O-Rings

(1) Hose Gasket • (1) Spring

2TURN **EZ TURN ANTI-BLOWBACK ADAPTERS** Description EZAB90 Straight 1/4" M.F. x 1/4" F.F. 90° 1/4″ M.F. x 1/4″ F.F. Straight 1/4" M.F. x 5/16" F.F. 90° 1/4" M.F. x 5/16" F.F. Description 1/4" Rebuild Kit; (1) Anti-Blowback Depressor

Scan for Ez-turn

Anti-Blowback **Fitting Rebuild Kit Video** 

2TURN



# Ball Valve Hoses



- 1/4" Soft Magic<sup>®</sup> Hose
- Vacuum Rated to 20 Microns
- 1/4 Turn, Full Flow Ball Valve
- Maximum Working Pressure: 800 PSI

Burst Pressure: 4000 PSI				<u> </u>			
			Red	Yellow	Blue	Hose Set 1 Each R , Y , B	Black 3/8"
		Length	Part#	Part#	Part#	Part#	Part#
	Ball Valve	3 ft. 90cm	H3BVR	H3BVY	H3BVB	H3BVS	
	Hoses with Full Flow	5 ft. 150cm	H5BVR	H5BVY	H5BVB	H5BVS	HD5BV
	Ball Valve	6 ft. 180cm	H6BVR	H6BVY	H6BVB	H6BVS	HD6BV

- 3/8" Soft Magic<sup>®</sup> Black Hose
- 3/8" Full Flow Ball Valve
- Maximum Working Pressure: 600 PSI
- Burst Pressure: 3000 PSI

### EZ TURN<sup>®</sup> & Ball Valve **Hose Sets**

- EZ Turn<sup>®</sup> Anti-Blowback Fitting

Part#

- 1/4 Turn, Full Flow Ball Valve Maximum Working Pressure: 800 PSI
- Burst Pressure: 4000 PSI

Part#	Description 🤏
EZ3HS	3 ft. Red & Blue EZ Turn Anti-Blowback Hoses and Yellow Ball Valve Hose
EZ5HS	5 ft. Red & Blue EZ Turn Anti-Blowback Hoses and Yellow Ball Valve Hose
EZ6HS	6 ft. Red & Blue EZ Turn Anti-Blowback Hoses and Yellow Ball Valve Hose

**UBV14** 

# **Ball Valve Adapters**



Part#	Description	
UBV14	1/4" Ball Valve Adapter, 1/4" M.F. x 1/4" F.F. with 45° Bend	
UBV146B	1/4" Ball Valve, 1/4" M.F. x 1/4" F.F. with 6″ Hose, Blue	~
UBV146R	1/4" Ball Valve, 1/4" M.F. x 1/4" F.F. with 6″ Hose, Red	
UBV146Y	1/4" Ball Valve, 1/4" M.F. x 1/4" F.F. with 6″ Hose, Yellow	
UBV146S	1/4" Ball Valve with 6" Hose Set (1 Each – R,Y,B)	



HVAC/R Tools

# **Soft Magic Hoses**

Premium, large I.D. Hoses for CFC, HCFC and HFC refrigerants. Supplied with large, knurled hose nuts and rubber gaskets for easy finger tightening.



ISA 000			3 <sub>/8</sub> " Str. x	•	3 <sub>/8</sub> " Str. x	•
BA	Ler	igth	Part#	UPC #	Part#	UPC #
<sup>3</sup> ⁄ <sub>8</sub> " Soft Magic <sup>®</sup> Heavy Duty	3 ft.	90cm	HD338	90500	HD33814	90206
Charging and Vacuum Hose Max. Work Pressure: 600 PSI	5 ft.	150cm	HD538	90502	HD53814	90208
Burst Pressure: 3000 PSI	6 ft.	180cm	HD638	90503	HD63814	90209
			1⁄2" Str. x	<sup>1</sup> / <sub>2</sub> " Str.	5%" Str. x 5	8" Str.
	Len	gth	Part#	UPC #	Part#	UPC #
	3 ft.	90cm	HD312	90238	HD358	90246
<sup>1</sup> ⁄ <sub>2</sub> " & <sup>5</sup> ⁄ <sub>8</sub> " Heavy Duty Charging	516	20011	110512	70230		20210
'/2'' & '%'' Heavy Duty Charging and Vacuum Hose Max. Work Pressure: 350 PSI	5 ft.	150cm	HD512	90240	HD558	90248

			UNIWED
	Part#	Description	PART # HDX14N-10
Replacement	HDX14N-10	Pkg. of [10] Rubber Gaskets [¾" Fittings]	REPLACEMENT PART PACKAGE OF 10 GASKETS
Parts	HD1X14N-10	Pkg. of [10] Rubber Gaskets [½" & 5/8" Fittings]	(3/8" HOSE)

# **Adapters and Fittings**



3/8"

Straight

1/4"

45



92863 R-410A Mini-Split Adapter <sup>5</sup>/16"(1/2"-20) Female with Adjustable Depressor x 1/4" Male with Valve Core **92816** R-134a and R-12 Vacuum Pump Adapter ¼" F.F. x ½" ACME M. x ¼" M.F.

13401

1/4" F.F. x 1/2" ACME M.

Replacement Tethered Caps 92817 <sup>1</sup>/<sub>4</sub>" Plastic Cap (Pkg. 10) 92818 <sup>1</sup>/<sub>2</sub>" ACME Plastic Cap (Pkg. 10)

*10005* <sup>1</sup>⁄<sub>4</sub>" M.F. x <sup>1</sup>⁄<sub>8</sub>" M.P.T.

92836 Refrigerant Drum Adapter ¾" NPS Cylinder x ¼" M.F.



92820 Valve Core Tool Double ended for removing and installing both standard and large bore valve cores



**92799** 1⁄2" ACME F. x 1⁄4" M.F.

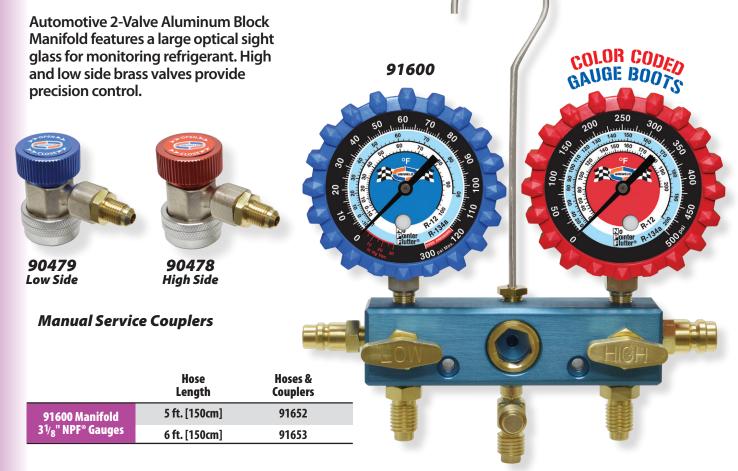


**92800** 14mm M. x <sup>1</sup>⁄<sub>4</sub>" M.F.





### 3 1/8" NPF® Gauges R-134a/R-12



### **Automotive Replacement Gauges**

Gauges with color coded gauge boots on large easy to read dials.

Part#	Description
G9YFD	2½" LPF® R-1234yf/ R-134a 0-500 psi
G10YFD	21 <sub>2</sub> " LPF® R-1234yf/ R-134a 30"-Hg-120 psi, 300 psi Overpressure
G409NSAD	31 <sub>/8</sub> " NPF® R-134a/R-12 0-500 psi
G410NSAD	31 <sub>8</sub> " NPF® R-134a/R-12 30″-Hg-120 psi, 300 psi Overpressure



NOTE: R-12 service connections are not included.







Uniweld's Soft Magic<sup>®</sup> super-flexible hose for under the hood and tight work areas. The yellow charging hose includes an anti-blowback fitting. Meets SAE J2196/R-134a specifications.

Specifications:

- Maximum Operating Pressure: 800 PSI (34 Bar)
- Burst Pressure: 4000 PSI (173 Bar)

	Hose Length	<sup>1</sup> / <sub>2</sub> " Acme x <sup>1</sup> / <sub>2</sub> " Acme w/Anti-Blowback	14mm x ½" Acme	14mm x ½" Acme	Hose Set 1 each R , Y , B
Soft	5 ft.	49009	49001	49005	49021
Magic®	6 ft.	49010	49002	49006	49022
	Part#	Description			
Replacement	90059	Package of [2] 14mr	n O-Rings and [4] ½"	Acme Gaskets	
Parts	HR134N-10	Package of 10 piece	s. ½" Acme Gaskets		

# **Automotive Service Couplers**

Uniweld's improved R-134a and R-1234yf Manual Service Couplers accurately centers to the schrader valve. This prevent damage to the schrader valve and securely locks the coupler o the A/C service port.

		10
ts	and the second s	
onto	90478	
	High Side	



14mm

14mm

90479 Low Side

	Part#	Description
R-134a	90478	Manual Red-High Side with ¼" M.F. Adapter
Manual Couplers	90479	Manual Blue-Low Side with 1⁄4" M.F. Adapter
R-134a Automatic Service Couplers	90483	R-134a Automatic Coupler - Red/High with ${}^1\!\!\!/_4$ " M.F. Adapter
	90484	R-134a Automatic Coupler - Blue/Low with $^{1}\!$
	90486	Automatic Service Coupler/Adapter Kit: Includes: 1 each 90483 and 90484
R-1234yf Manual Couplers	90494	Manual Red-High Side with $1_4$ " M.F. Adapter
	90495	Manual Blue-Low Side with ¼" M.F. Adapter



1/2" ACME with

Anti-blowback

fittings

90483 **High Side**  90484 Low Side



Low Side



# R-134a Auto Accessories

# *R-134a Can Tap Valve and Auto Recharge Hose*

R-134a Recharge Hose assembly includes: Can Tap Valve with 8" hose and low side Service Coupler for quick and easy A/C service.

Self-piercing R-134a Can Tap Valve with ½" ACME fittings and "T" handle valve for easy fingertip control.

	Part#	Description
Can Tap Valve	49016	R-134a Auto Recharge Hose with Can Tap Valve
and Hose	90060	R-134a Can Tap Valve with $1\!\!\!_2$ " Acme Male Fitting



PLD33V

(cylinder

not included)

# Propane Halide Leak Detector

90060

Uniweld's Propane Halide Leak Detector instantly locates non-combustible halide (CFC & HCFC) refrigerant gas leaks. Leaks are located when the chlorine based refrigerant gases are drawn in through the probe hose and exposed to a heated copper reactor plate, changing the blue flame to green. This detector is very sensitive and can be used to locate leaks as small as 20 ppm of CFC and HCFC refrigerants.

PCV

Will not detect non-chlorine based refrigerants (such as R-410A).

LDPLC



When chlorine-based refrigerant gases are detected...



...blue flame changes to green

Part#	Description	
PLD33V	Propane Halide Leak Detector with probe hose valve assembly	-
PCV	Valve Assembly Only	
LDPLC	Copper Reactor Plate	



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49016

# UNIWELD

# Nitrogen Kits

Nitrogen is a dry inert gas with multiple uses in the HVAC/R industry: purging when brazing, pressure testing for leaks, calibrating pressure controls, cleaning a condensate drain line, cleaning coils, inflating tires, unclogging a sink, operating impact tools and much more. The Sludge Sucker<sup>®</sup> Kit options include a choice of high or low-pressure regulators for Nitrogen or CO<sub>2</sub> [with optional F36 adapter - sold separately]. All Nitrogen Kits include a Sludge Sucker<sup>®</sup> and Sludge Blaster<sup>®</sup> for quickly unclogging condensate drain lines.



Blow off coils with Blowgun



Purge and pressure test an A/C&R system



Clean out condensate drain lines with Sludge Blaster®

Part#	Regulators	Accessories	Hoses	Blowgun	<b>Carrying Stand</b>
40002	R1563 [Delv. 5-175 psi]	40000	H5SMBY	BG1	516 [40/55 cu. ft.]*
40040	RHP400 [Delv. 20-400 psi]	Sludge Sucker <sup>®</sup> 40061	5 ft. Hose H2SSM		516 [40/55 cu. ft.]*
40098	RHP800 [Delv. 20-800 psi]	Sludge Blaster®	2 ft. Hose		516 [40/55 cu. ft.]*

\*Tank not included.

# 40055 Sludge Sucker® Maintenance Kit



A versatile, all-in-one kit that includes a Nitrogen regulator with a delivery pressure up to 400 PSI for pressure testing an A/C&R system for leaks. It also includes many accessories for cleaning condensate drain lines and for blowing off coils. It even has an air chuck to fill up that flat tire. As a bonus, our Sludge Blaster<sup>®</sup> is included (see page 63 for more information). Carry stands are sold separately (see page 32). Sludge Sucker<sup>®</sup> Maintenance Kit includes one of each:

RHP400	Nitrogen Regulator	40048	Needle Tip
40000	Sludge Sucker®	40050	<sup>1</sup> / <sub>2</sub> " Rubber Plug
40061	Sludge Blaster®	40022	<sup>3</sup> / <sub>4</sub> " Rubber Plug
H2SSM	2 ft. Hose	BG1	Blowgun
H5SMBY	5 ft. Hose	40045	Air Chuck

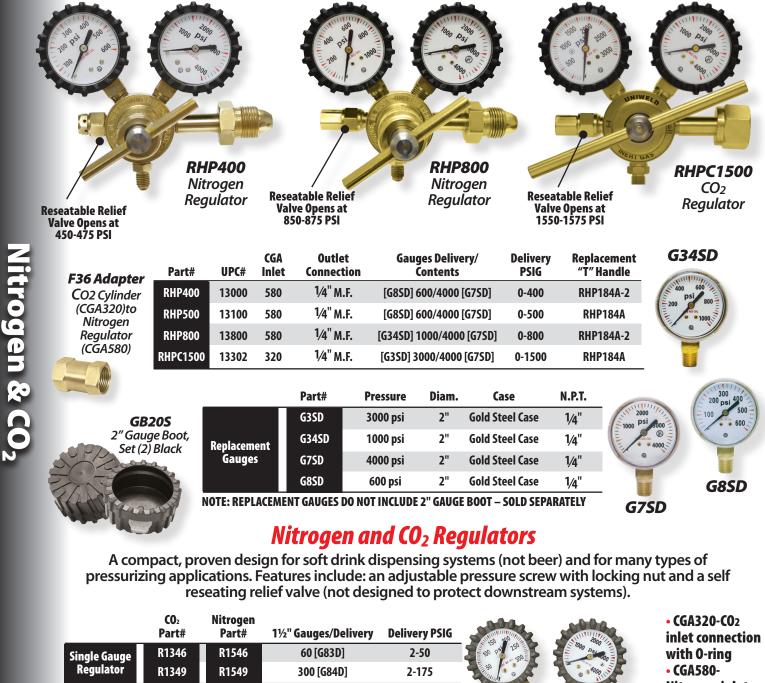
40055

40040



# Nitrogen Regulators

Regulators for use with Nitrogen or  $CO_2$  (with optional F36 adapter) that have been specially designed for purging and pressure testing. Large brass "T" handle with stainless steel pressure adjusting screw and bushing prevent galling.



• CGA580-Nitrogen inlet connection • 1/4" SAE flare outlet • U.L. Listed \*Gauges shipped with protective boots



Dual

Gauge Regulator



Nitrogen

Part#

R1558

\*R1560

\*R1562

\*R1563

Nitrogen/CO<sub>2</sub>

**Delivery/Contents** 

[G20D] 15/4000 [G82D]

[G83D] 60/4000 [G82D]

[G78D] 200/4000 [G82D]

[G84D] 300/4000 [G82D]

**CO**<sub>2</sub>

Part#

R1358

\*R1360

\*R1362

\*R1363

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**Delivery PSIG** 

2-12

2-50

5-120

5-175



### NV1 Nitro•vue Flow Indicator



NV1 NitroVue<sup>®</sup> is nitrogen purging simplified. The easy to read flow indicator label
 and the precision adjustable valve give complete control over the low flow of
 and the precision adjustable valve give complete control over the low flow of
 nitrogen gas during the brazing of copper tubing in Air Conditioning and
 Refrigeration systems. The bright orange flow ball visually confirms the flow of
 nitrogen gas and allows the technician to first "PURGE" the copper lines at 20+
 SCFH and then reduce the flow to "BRAZE" at 3-5 SCFH during the brazing process, conserving nitrogen consumption and reducing operating cost.

### RHP800N Nitrogen Regulator and Nitro•Vue Kit



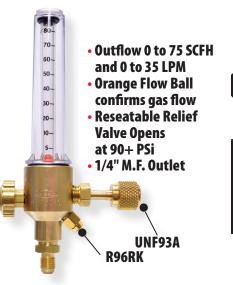


Part#UPC#Inlet<br/>ConnectionOutlet<br/>ConnectionNV1140401⁄4" F.F.1⁄4" M.F.





trogen & CO



### **UNF3 Nitrogen Flow Meter**

Part#	UPC#	Inlet Connection	Outlet Connection	
UNF3	14030	1⁄4" F.F.	1⁄4" M.F.	
Part#	<b>Replacement Parts</b>			
R96RK	12027	Reseatable Relief Devi	Over Pressure ce	
UNF93A	14032	Inlet Assembly		
NV193A	14041	Inlet Valve Assembly for NV1		



Maximum Inlet Pressure: 50 PSI





The Sludge Sucker<sup>®</sup> is a tool that was developed to clean out a condensate drain line without accessing the drain pan located in the air handler. The Sludge Sucker's clear vinyl hose is attached to the 3/4'' PVC condensate drain line on the outside of the building. With the use of Nitrogen or CO<sub>2</sub>, suction is created that pulls all the sludge

and algae from the drain pan and drain line; then blows it onto the ground outside.

> 1. Locate condensate drain line. Sludge Sucker® vinyl hose fits inside a 3/4" PVC fitting.

2. Use PVC fittings, if needed, to attach vinyl hose to drain line. 3. Allow Nitrogen to flow through Sludge Sucker® fitting and then watch the sludge get sucked out of the drain line and blown onto the ground.

40000

Sludge Sucker<sup>®</sup>





Description

Part# 40000

Sludge Sucker® with clear vinyl hose



# Sludge Blaster®/Drain Blaster®

1. Insert Sludge Blaster<sup>®</sup> into the "T" connection at the air handler.

40062



2. Allow Nitrogen (at max. 140 PSIG) to flow through, blasting the sludge free.



**40061** Sludge Blaster®

3. Replace PVC cap on "T" connection. For future service: DO NOT GLUE PERMANENTLY.

Unclog A/C condensate drain pipes FAST with Sludge Blaster<sup>®</sup>. It expands inside the pipe and with pressure exerted on the clog, blasts the sludge free. Attaches to standard 1/4" service hose. Pipe capacity: 3/4" to 1" I.D.

Unclog drain pipes FAST with Drain Blaster<sup>®</sup>. It expands inside the pipe and exerts water pressure on the clog... blasting it free. Attaches to standard 3/4" garden hose.

40064

Part#	Description	Pipe Capacity
40061	Sludge Blaster®	<sup>3</sup> / <sub>4</sub> " to 1" I.D.
40062	Drain Blaster®	1" to 2" I.D.
40063	Drain Blaster®	1½" to 3" I.D.
40064	Drain Blaster®	3" to 6" I.D.



40063





# Flaring/Swaging Tools

# Flare/Burnish and Swaging Tool Kit

Swaging means one solder joint, not two. It now takes half the time to solder and braze the fitting with less chance of a leak.





70007

<u>i</u>

For 45° flaring of 1%", 36", 14", 56", 38", 76", 12", 58" and 34", O.D. soft copper, aluminum and brass tubing. Converts quickly to Swaging Tool with use of Swage Adapters for 3/6", 1/4", 5/6", 3/8", 7/6", 1/2", 5/8" and 3/4" O.D. tubing. Kit with swivel-type self centering yoke fitted in plastic case with instructions.



### **Punch Type Swaging Tools**

Designed to enlarge one end of copper tubing to make a connection without a fitting. Swaging means one solder joint, not two. It now takes half the time to solder and braze the fitting with less chance of a leak.





**ubing** Tools



- Compact Hydraulic Power Swage Tool for on the job precision swaging
- The power to swage 1/4" up to 2-1/8" O.D. tubing
- Portable and lightweight easy one hand operation
- Save time and money by eliminating fittings and soldering joints
- Re-round deformed tubes and fittings for precision fit
- Patent Pending

#### **UEK1**

**Expander Swage Kit: Includes 6 Expander** Heads 3/8", 1/2", 5/8", 3/4", 7/8", 1-1/8" + Inside/Outside **Deburring Tool** and Carrying Case with Storage **Compartments** 

> **Expander®** Heads U.S. Patent No. 10,226,810



WARNING!

FOR USE ON

can be expanded.

be quickly switched **SOFT TUBING ONLY!** 

Hard copper tubing can be heated and annealed with a flame tool Hydraulic that will soften the tubing so it Power for one

Posi-Lock Expander heads can

out

handed

swaging

IMPORTANT: 3/8" hard and soft copper tubing should be annealed before expanding to prevent splitting.



Patented, see www.uniweld.com/patents





**UEH-14** (Sold Separately)

**UEH-516** (Sold Separately) **UEH7-138** (Sold Separately)

**UEH8-158** (Sold Separately)

PANDER

**UEH9-218** (Sold Separately)

	PART#	DESCRIPTION
	UEK1	<b>Expander Swage Kit Includes:</b> 6 Expander Heads 3/8", 1/2", 5/8", 3/4", 7/8", 1-1/8" Plus Inside/Outside Deburring Tool and Carrying Case with Storage Compartments
	UEH-14	Expander Head 1/4" 0.D.
	UEH-516	Expander Head 5/16" O.D.
	UEH1-38	Expander Head 3/8″ 0.D.
	UEH2-12	Expander Head 1/2″ 0.D.
	UEH3-58	Expander Head 5/8″ 0.D.
	UEH4-34	Expander Head 3/4″ 0.D.
	UEH5-78	Expander Head 7/8″ 0.D.
	UEH6-118	Expander Head 1-1/8" O.D.
	UEH7-138	Expander Head 1-3/8″ O.D.
	UEH8-158	Expander Head 1-5/8" O.D.
	UEH9-218	Expander Head 2-1/8″ O.D.
	UEHST	Hydraulic Swage Tool (does not include expander head)
	70079	Inside/Outside Deburring Tool

# Flaring & Deburring Tools



The 70003 Heavy Duty Flaring Tool has a hardened steel flaring cone with a chrome finish for more uniform flares without galling. Special shaped wing nuts allow the long handle of the self-centering yoke to be used as a lever when tightening. The hardened steel flaring bar grips tubing without scoring.





For 45° flaring of 3/6", 1/4", 5/6", 3/8", 7/6", 1/2" and 5/8" O.D. soft copper, aluminum and brass tubing.

The 70072 Inside/Outside Deburring Tool guickly removes burrs and sharp edges on all size tubing. A removable end cap exposes a convenient storage area for replacement blades.



Used for deburring metal or PVC tubing ends, inside and out after cutting

An effective way to isolate a piece of equipment in need of repair is to close off the tubing with the use of a Pinch-Off Tool. This works well in emergency situations that require immediate stopping of a leak. The maximum throat depth of this Pinch-Off Tool 70076 is 1" (25.4mm).



**Pinch-Off Tool** 

blades. This heavy duty metal deburrer has a

capacity of 1/8" to 11/8" O.D. (3mm to 42mm).

70079



Used for deburring metal or PVC tubing ends, inside and out after cutting





70076

Uniweld Products, Inc. Fort Lauderdale, FL 33312 U.S.A. Customer Service: 800.323.2111 info@uniweld.com • www.uniweld.com

ubing Tools



- Specifically designed to meet R-410A flaring specifications and all 45° flares for Soft Copper, Brass and Aluminum Tubing.
- Internal break away clutch that disengages when flare is completed, prevents over flaring and crushing the copper tubing.
- Automatic Tube Stop Height Gauge for a perfect R-410A flare every time!
- 3/4"-12 Point Reversible Ratchet Wrench included reduces the amount of effort required to manually flare in a confined work space.
- 3/8" Square Drive for use with cordless electric drill for faster flaring drill & socket adapter not included.
- Eccentric off center cone that spins on an axis and rolls out a perfectly uniform 45° flare with a burnished flare surface.
- Self-Centering Clamping Dies for 8 Tube Sizes: 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 Inch O.D.
- Patent Pending

Mini Split A/C units are becoming increasingly popular and require flare connections on each end of the line set to connect the evaporator and condenser. Since R-410A is a much higher-pressure refrigerant, Mini Split manufacturers established R-410A flaring specifications that require a larger diameter, deeper flare for more surface area to seal against the male flare fitting and produce a stronger connection. Uniweld's Deluxe Flaring Tool features a built-in tube stop height gauge that makes a perfect R-410A flare without the guess work. Specifically designed to meet R-410A flaring specifications and can also be used on all 45° flares for Soft Copper, Brass and Aluminum Tubing.



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### 68

3/4"-12 Point Reversible

Ratchet Wrench included reduces the

amount of effort

required to flare in a

confined work space.



# **Premium Mini Cutters**



The Mini Cutter rollers are grooved to allow close cutting at flared end of tubing.



	Part#	Capacity	Application
UTC701	UTC701	<sup></sup> <sup></sup> ∕ <sub>8</sub> ″ to 1″ 0.D.	For Copper, Brass and Aluminum Tubing
MINI TUBING CUTTER			GED CAST ALUMINUM BODY • COMPACT SIZE TO CUT IN TIGHT SPACES IP THUMBSCREW FOR PRECISE CUTTING PRESSURE CONTROL



The sliding block design lets you cut in tight work areas.



	Part#	Capacity	Application
UTC702 MINI	UTC702	⅓″ to 1⅛″ <b>0.D.</b>	For Copper, Brass and Aluminum Tubing
TUBING CUTTER			ED CAST ALUMINUM BODY • COMPACT SIZE TO CUT IN TIGHT SPACES P THUMBSCREW FOR PRECISE CUTTING PRESSURE CONTROL





UNIWELD



#### **Premium Cutter**



	Part#	Capacity	Application
UTC704	UTC704	<sup>1</sup> / <sub>8</sub> " to 1 <sup>3</sup> / <sub>4</sub> " 0.D.	For Copper, Brass and Aluminum Tubing
PREMIUM TUBING CUTTER	FEATURES:	• 4 ROLLER TRACK	COPIC FEED SCREW MECHANISM FOR SMOOTH CUTTING ACTION (ING FOR TRUE SQUARED CUT • FLARE CUT-OFF GROOVE FOR CLOSE ED FLARE • BUILT IN DEBURRING TOOL • SPARE CUTTER WHEEL

## **Quick-Action Premium Cutter**

The spring loaded ratchet cutter wheel feeding system enables quick-action contact/release for tubing size adjustment. Two small and two large rollers ensure true square cut on the smallest and the largest tubing capacities. For cutting brass, aluminum and copper tubing.









### **Mini Tubing Cutter**

Compact body and sliding block design for use in restricted areas. The large, knurled feed screw knob provides precision adjustments. Rollers are grooved for cutting close to the flared end of tubing. For copper, brass and aluminum tubing.

## **Premium Tubing Cutters**

Precision feed screw mechanism that is enclosed to eliminate clogging and jamming for trouble free performance. Tube cutter maintains the same length for accurate cutting of copper, brass and aluminum tubing in restricted spaces. The rollers are grooved for cutting close to the flared end of tubing. A deburrer/reamer and spare cutter wheel are included.





The ideal cutting tools for plastic pipe commonly used for condensate drain lines, plumbing lines, irrigation and electrical conduit. Easy-to-use ratchet-action mechanism and hardened steel blade replaces that old saw blade that never cuts clean or straight. The blade holds a sharp edge and is easily field replaceable. Cuts cleanly through all plastic pipe including: PVC, CPVC and Polyethylene.



**Tubing Tools** 



The Uniweld 3-in-1 Triple Tube Bender, a compact and durable tool with multiple bending channels, is capable of bending 1/4", 5/16" and 3/8" O.D. soft copper, aluminum and soft stainless steel tubing. Calibrated markings show angle of bend for accurate left hand, right hand and offset bends up to 180° with 1" bend radius.

> 3-in-1 **Triple Tube**

> > SWING

**Bender** 70010 **Lever Type Tube Benders BENDER HANDLE** INTO POSITION

> **INSERT AND** POSITION TUBING

70014

Each lever tube bender bends one size of soft copper, aluminum, brass, steel and other metal tubing. The calibrated markings show angle of bend for smooth, short radius bends up to 180°. Wide hook grips tubing securely.

70015

BEGIN TUBIN<u>G</u>

BEND

**TUBE BEN** 

m,⊑

FINISH BEND

Part#	Description	Tube Diam.	Bend Radius	Part#	Description	Tube Diam.	Bend Radius
70010	Bender	<sup>3</sup> / <sub>8</sub> " <b>0.D.</b>	1"	70012	Bender	<sup>5</sup> /8" <b>0.D.</b>	21⁄4"
70011	Bender	<sup>1</sup> /2" <b>0.D.</b>	1½"	70013	Bender	<sup>3</sup> /4" <b>0.D.</b>	3"
				70014	Bender	7/ <sub>8</sub> " <b>0.D.</b>	31⁄4"



# Ratchet Tube Bender

Uniweld's CrossBow<sup>™</sup> Ratchet Tube Bender enables plumbers and HVAC/R technicians to make precision bends up to 90° with soft copper and aluminum tubing. The low friction mandrels and rotating side support blocks provide precision bending in restricted spaces. Bend tubing sizes: ¾", ½", 5%", ¾", 7%", 11%", O.D. You can produce bends with minimum distortion for optimal flow. Repeated alternate angled bends are possible with the CrossBow<sup>™</sup> Ratchet Tube Bender, housed in a rugged plastic carrying case.



CrossBow Kit includes: 6 interchangeable mandrels; 3 rotating side support block bars; 1 ratchet bender; plastic carrying case and instructions

#### Part# Description

RTB118	Crossbow Ratchet Tube Bender, Sizes: ⅔", ½", ⅔", ¾", ⅔", 1½" 0.D.
RTBCA118	1%" Crossbar Assembly
RTBCA58	¾", ½" and ¾" Crossbar Assembly
RTBCA78	¾" and ‰" Crossbar Assembly
RTBM118	1%" Mandrel for Crossbow Ratchet Tube Bender
RTBM12	1⁄2" Mandrel for Crossbow Ratchet Tube Bender
RTBM34	¾" Mandrel for Crossbow Ratchet Tube Bender
RTBM38	¾" Mandrel for Crossbow Ratchet Tube Bender
RTBM58	% " Mandrel for Crossbow Ratchet Tube Bender
RTBM78	%" Mandrel for Crossbow Ratchet Tube Bender
RTBR	Crossbow Ratchet Tube Bender Body Assembly
RTBRC	Crossbow Ratchet Tube Bender Replacement Case

## Spring Tube Benders

Free-form bending of soft copper and aluminum tubing with Uniweld Spring Tube Benders. Spring slips over tubing and prevents collapsing of tube walls during bending. Achieve fast and professional bends.



Minimum distortion bends up to 90°

**RTB118** 

Part#	Description
70028	Bending Spring Set [4 Sizes] 1/4", 3/8", 1/2", 5/8" 0.D.
70016	Bending Spring ¼" 0.D. [0.64 cm]
70017	Bending Spring <sup>5/</sup> 16" O.D. [0.79 cm]
70018	Bending Spring <sup>3</sup> /8" 0.D. [0.95 cm]
70019	Bending Spring <sup>1</sup> /2" 0.D. [1.27 cm]
70020	Bending Spring <sup>5</sup> /8" O.D. [1.59 cm]
70021	Bending Spring ¾" 0.D. [1.90 cm]

Spring Bender Set
UNIWELD

3⁄8″

70028

1/5"

1⁄4″



## 20 'N' 1 Ratchet Screwdriver

Multi-tip Ratchet Screwdriver with 14 magnetic interchangeable double-end bits, three nut drivers, two valve core extractors and one wire bender.



75

**Tubing Tools** 

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### **Reversible & Offset Ratchet Wrenches**

Double-end Reversible Ratchet Wrenches designed for clearance in tight work areas. Chrome plated, heat-treated alloy steel, strong gear teeth and easy-flip reversing mechanism. **BONUS!** Dual Hex Valve Adapter Included.



70022

Standard Reversible Ratchet Wrench + Dual Hex Valve Adapter Use for compressor access valves and Acetylene B & MC tank valves. Square openings: 1/4" and 3/16" at one end; 3/8" and 5/16" at other end.



70074

#### Offset Reversible Ratchet Wrench + Dual Hex Valve Adapter Use for compressor access valves and Acetylene B & MC tank valves. Square openings: 1/4" and 3/16" at one end; 3/8" and 5/16" at other end.s



70075

Heavy Duty Offset Reversible Ratchet Wrench + DHW316 Hex Adapter Hex openings: 1/2" and 9/16" at one end; Square openings: 1/4" and 3/16" at other end



Patent No. 9,328,870

# **Dual Hex Adapters DHVA** Dual Hex Valve



5/16" Square Socket Fits Uniweld 70022 and 70074 Reversible Ratchet Wrenches Adapters for use on 3/16" and 5/16" hex liquid and suction valves on residential and commercial equipment. Heat treated zinc plated steel to prevent rust. **DHW316** 



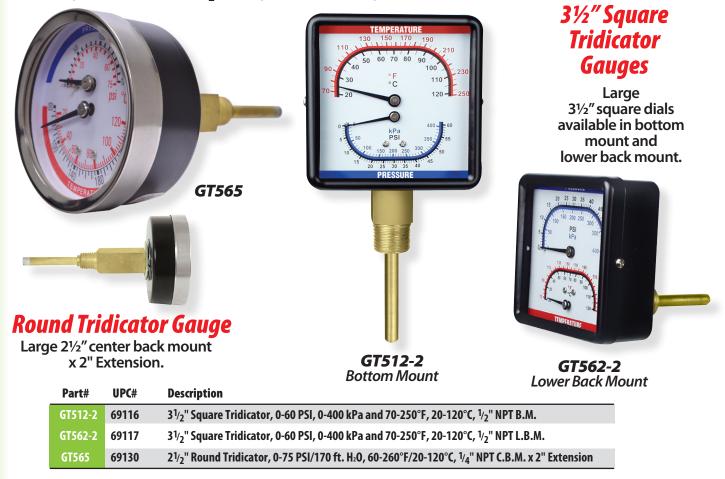
1/4" Square Socket Fits Uniweld 70022, 70074 and 70075 Reversible Ratchet Wrenches







Designed primarily for hot water boiler systems. Two instruments in one...you can measure water pressure in PSI and  $H_2O$  feet, plus monitor temperature in °F and °C.



## **Pocket Bi-Metal Thermometer**

Pocket Thermometer with 1" dial and stainless steel case. Color-coded °F and °C dial face. Stainless steel 5" pointed stem. Field calibration.



**69901** -40°F to 160°F -40°C to 70°C



Protective sheath with pocket clip







This precision test kit includes a sensitive diaphragm gauge that is calibrated in inches of water column for extreme accuracy. Convenient to use without the mess of water or worry of mercury.

Use this accurate kit to measure gas pressure across appliance manifolds. Test gas stoves, furnaces, dryers and other gas appliances.



A new Uniweld design feature allows you to easily zero reset the gauge needle by simply twisting and removing the dial lens to access the zero adjusting screw.

Part#	Description			
45503	Scale: 0-35" W.C., 0-20 oz./ln <sup>2</sup>			
	Replacement			
Part#	Description Parts			
45595	Brass Fitting, Barbed x <sup>1</sup> /8" M.P.T.			
45596	Rubber Nipple			

**Black Rubber Hose** 





Uniweld Gas Pressure Test Kit includes: A Diaphragm Gauge that accurately sets manifold pressure for Natural or LP gas; a Brass Fitting (barbed x 1/8" M.P.T.) and rubber tube with nipple for easy connection; Molded Plastic Case; Instructions.

#### Water Manometer

An economical way to check/set manifold pressure in furnaces and gas appliances that use Natural or LP gas. Fill with water to zero and place in vertical position using the included magnet. Attach fitting to manifold and begin pressure test. Pressure reading (from 0-15" water column) is shown in small tube.





# **Gas Test Gauges**



Use to pressure test all new installations for leaks and inspection codes. After installation and the system has been pressurized, the leakage will be indicated by a pressure drop on the gauge.







TGB30 Top Mount

TGW300DP

TGB6

TGH30 Side Mount



	Replacement Gauge	1/2" FPT	*Top Mount 3/4" FPT	1" FPT	Side Mount 3/4" FPT
15 psi, 2″ ‱ lb. incr. Full Scale	GP210-5	TGB215	TGB15	TGB115	TGH15
30 psi, ¼ lb. incr., 2"	GP211-5	TGB230	TGB30	TGB130	TGH30
60 psi, 1 lb. incr., 2"	GP212-5	TGB260	TGB60	TGB160	TGH60
100 psi, 1 lb. incr., 2″	GP213-5	TGB2100	TGB100	TGB1100	TGH100
**0-6 psi/½ lb.,0-12 in. of Mercury, 4″ [100mm]	GD408IP	TGB206	TGB6	TGB106	TGH6
0-15 psi/‱ lb.,0-30 in. of Mercury, 4″ [100mm]	GS410-5IP	TGB4215	TGB415	TGB4115	TGH415

\*\*Special sensitive 21/2" diaphragm gauge for more accurate low pressure reading.

\* Uniweld reserves the right to use either plated steel or an aluminum hex body when supplying a top mount gas test gauge assembly.

# Water Test Gauges

Part#	Description	Replacement Parts and Gauges	Description
TGW300	Water test gauge with <sup>3</sup> /4" female hose connection, 2 <sup>1</sup> /2" gauge, 300 PSI	TGW	<sup>3</sup> / <sub>4</sub> " FHT x <sup>1</sup> / <sub>4</sub> " female NPT connection only
TGW300DP	Water test gauge with <sup>3</sup> /4" female hose connection, 2 <sup>1</sup> /2" gauge, 300 PSI Drag Pointer	GS316-5	21/2", 300 PSI, 12 o'clock dial
		GS316-5DP	2½", 300 PSI, 12 oʻclock dial, Drag Pointer





Versatile, accurate and durable, these general purpose utility gauges are suitable for use on pressure media that are non-corrosive to brass or bronze. They are fitted with either bottom mount (BM) or center back mount (CBM) connections and are available in black plastic or black steel cases.

		1½" Di	iameter			2" Dia	meter		21/ <sub>2</sub> " Di	ameter
Pressure		teel Case <sup>1</sup> ⁄8" CBM	Black Pla <sup>1</sup> ⁄8" BM	astic Case <sup>1</sup> ⁄8" CBM	Black Ste <sup>1</sup> ⁄4" BM	eel Case ¼" CBM	Black Pla <sup>1</sup> ⁄4" BM	astic Case <sup>1</sup> ⁄4" CBM	Black St 1⁄4" BM	teel Case <sup>1</sup> ⁄4" CBM
Range	Part#	Part#	Part#	Part#	Part#	Part#	Part#	Part#	Part#	Part#
Hg PSI										
30" Hg+	GS100	GS150	GP100	GP150	GS200	GS250	GP200	GP250	G\$300	GS350
30" Hq	GS108	GS158	-	-	GS208	GS258	-	-	GS308	GS358
30" - 15	GS101	GS151	-	-	GS201	GS251	-	-	GS301	GS351
30" - 30	GS102	GS152	-	-	GS202	GS252	-	-	GS302	GS352
30" - 60	-	-	-	-	-	-	-	-	GS303	GS353
30" - 100	-	-	-	-	-	•	-		GS304	GS354
30" - 150	-	-	-	-	GS205	GS255	-	-	GS305	GS355
PSI										
15	GS109	GS159	-	-	GS209	GS259	-	-	GS309	GS359
15+	GS110	GS160	GP110	GP160	GS210	GS260	GP210		GS310	GS360
.1 lb. incr.	-	-	-	-	GS210-5	-	GP210-5	-	-	-
30	GS111	GS161	GP111	GP161	GS211	GS261	GP211	-	GS311	GS361
.25 lb. incr.	-	-	-	-	GS211-5	-	GP211-5	-	-	-
60	GS112	GS162	GP112	GP162	GS212	GS262	GP212	-	GS312	GS362
1 lb. incr.	-	-	-	-	GS212-5	-	GP212-5	-	-	-
100	GS113	GS163	GP113	GP163	GS213	GS263	GP213	-	GS313	GS363
1 lb. incr.	-	-	-	-	GS213-5	-	GP213-5	-	-	-
160	GS114	GS164	GP114	GP164	GS214	GS264	GP214	GP264	GS314	GS364
200	GS115	GS165	GP115	GP165	GS215	GS265	GP215	GP265	GS315	GS365
300	GS116	GS166	GP116	GP166	GS216	GS266	GP216	GP266	GS316	GS366
400	GS117	GS167	GP117	GP167	GS217	GS267	GP217	GP267	GS317	GS367
600	GS118	GS168	-	-	GS218	GS268	-	-	GS318	GS368
1000	GS119	GS169	-	-	GS219	GS269	-	-	GS319	GS369
3000*	GS122	GS172	-	-	GS222	GS272	-	-	GS322	GS372
4000*	GS123	GS173	-	-	GS223	GS273	-	-	GS323	GS373
5000*	GS124	GS174	-	-	GS224	GS274	-	-	GS324	GS374
6000*	-	-	-	-	GS225	GS275	-	-	GS325	GS375

NOTE: The following alternate options are available: [1] Stainless steel case in  $1^{1/2}$ " or 2" diameter with CBM or BM connections. To order, change "GS" to "GSC", [2] Panel mount in black steel with posi-lock lens and CBM connections. To order, change "GS" to "PP". [3] 1<sup>1</sup>/<sub>2</sub>" "PP" gauge available with chrome plated ring. To order, change "GS" to "PC". We reserve the right to send dual scaled gauges. If dual scales required, add the suffix [-1] for PSI-kg/cm<sup>2</sup>, [-2] for PSI-kPa [-3] for PSI-Bar. Many other options available. Call for more information. Shipped individually boxed.

#### 2" High Pressure CO<sub>2</sub> Gauges

2" High Pressure, Black Steel Gauge Case with red zone for gas order alert. For use with  $CO_2$  or other compressed gases. Not for Oxygen service.

Part#	UPC#	Description
GS241	51241	Bottom Mount [RHT] 3000 PSI
GS242	51242	Bottom Mount [LHT] 3000 PSI
GS243	51243	Side Mount [RHT] 3000 PSI
GS244	51244	Side Mount [LHT] 3000 PSI



LHT - Left Hand Thread, 1/4" NPT



1/4" NPT • BM

%"NPT • CBM 1<sup>1</sup>/<sub>2</sub>" diam. Black **Plastic Case** 

1/8" NPT • CBM 1<sup>1</sup>/<sub>2</sub>" diam. Black Steel Case



RHT - Right Hand Thread, 1/4" NPT



# Liquid Filled Gauges

Liquid fill (Glycerine) dampens the damaging effects of excessive vibration and pulsation while providing continuous lubrication of the internal components, helping to prevent corrosion. Meets (A.N.S.I. B40.1) Grade B for accuracy. Normal operating pressure range is -14°F to 140°F.

	Part#	UPC# Pressure Range		Part#	UPC#	Pressure Range
	GSL301-3	69103	30″ Hg - 0 - 15 PSI [-1 - 0 - 1 Bar]	GSL316-3	69113	0 - 300 PSI [0 - 20 Bar]
	GSL302-3	69104	30″ Hg - 0 - 30 PSI [-1 - 0 - 2 Bar]	GSL317-3	69114	0 - 400 PSI [0 - 27 Bar]
	GSL303-3	69105	30″ Hg - 0 - 60 PSI [-1 - 0 - 4 Bar]	GSL318-3	69115	0 - 600 PSI [0 - 40 Bar]
	GSL308-3	69106	30″ Hg Vac. [0 to - 1 Bar]	GSL319-3	69118	0 - 1000 PSI [0 - 70 Bar]
Λ	GSL309-3	69107	0 - 15 PSI [0 - 1 Bar]	GSL320-3	69119	0 - 1500 PSI [0 - 100 Bar]
	GSL311-3	69108	0 - 30 PSI [0 -2 Bar]	GSL321-3	69120	0 - 2000 PSI [0 - 140 Bar]
	GSL312-3	69109	0 - 60 PSI [0 - 4 Bar]	GSL322-3	69121	0 - 3000 PSI [0 - 200 Bar]
//	GSL313-3	69110	0 - 100 PSI [0 - 7 Bar]	GSL324-3	69122	0 - 5000 PSI [0 - 350 Bar]
	GSL314-3	69111	0 - 160 PSI [0 - 11 Bar]	GSL325-3	69123	0 - 6000 PSI [0 - 400 Bar]
	GSL315-3	69112	0 - 200 PSI [0 - 14 Bar]	GSL327-3	69124	0 - 10,000 PSI [0 - 700 Bar]

2½" (63mm) Gauge ¼" NPT Bottom Mount



**G51D** 

GSL311-3

## **Flowgauges and Medical Gauges**

Uniweld Flowgauges are designed for MIG and TIG welding applications. Uniweld Medical Gauges are designed for medical gas delivery systems in hospitals and in the home.



Part# UPC#	Flow Gauges
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	G51D	54104	11/2" Gauges [1/8" NPT] Steel Case 40 SCFH, Argon, AR/CO2 MIX [75%-25%] Calibrated for 71 Dr./.026 Orifice [60 PSI Max.]
Flow	G87D	54117	$1^{1}/_{2}$ " Gauges [ $1/_{8}$ " NPT] Steel Case 10-40 SCFH, CO2 Calibrated for 71 Dr./.026 Orifice [60 PSI Max.]
	G76D	54217	2" Gauges [1/4" NPT] Brass Case 10-50 SCFH, AR/C02 MIX [75%-25%] Calibrated for 67 Dr./.032 Orifice [60 PSI Max.]
	G77D	54219	2" Gauges [1/4" NPT] Brass Case 20-100 SCFH, CO2 Calibrated for 67 Dr./.032 Orifice [60 PSI Max.]
Gauges	G86D	54222	2" Gauges [1/4" NPT] Brass Case 10-50 SCFH, CO2 Calibrated for 69 Dr./.029 Orifice [60 PSI Max.]
	G76SD	54218	2" Gauges [ $1/_4$ " NPT] Steel Case 10-50 SCFH, AR/C0 $_2$ MIX [75%-25%] Calibrated for 67 Dr./.032 Orifice [60 PSI Max.]
	G77SD	54548	2" Gauges [ $1/_4$ " NPT] Steel Case 20-100 SCFH, CO <sub>2</sub> Calibrated for 67 Dr./.032 Orifice [60 PSI Max.]
	G86SD	54549	2" Gauges [1/4" NPT] Steel Case 10-50 SCFH, CO2 Calibrated for 69 Dr./.029 Orifice [60 PSI Max.]
	G55D	54106	1½" Gauges [1/8" NPT] Chromed Case 15 LPM, Plated Socket, Oxy Calibr. for 73 Dr./.024 Orifice [60 PSI Max.]
Medical		54105	1½" Gauges [1/8" NPT] Chromed Case, Brass Socket 4000 PSI.
Gauges	G62D	54211	2" Gauges [1/4" NPT] Chromed Case 15 LPM, Brass Socket, Oxy Calibr. for 77 Dr./.018 Orifice [120 PSI Max.]
	G63D	54212	2" Gauges [¼4" NPT] Chromed Case, Brass Socket 4000 PSI.



	UNIV	VELD	W	<b>/el</b> c	ding	g G	iau	ge	5	
	SS.		000 psi 000 psi 000 psi 000 000 000 000 000 000 000 000 000 0	P Ac to	SI/Kg dd (-1) Part#	PSI/ Add to Pa	(-2)	25- 30 PSI/ Add to Po	art#	S
G15D			1 <sup>1</sup> / <sub>2</sub> " GAI [ <sup>1</sup> / <sub>8</sub> " NI			2" GAUGES [ <sup>1</sup> /4 <sup>"</sup> NPT**]			GAUGES NPT**]	ete
Pressure Calibration		Stee	r Painted I Case .M.	Gold Steel Case C.B.M. WITH WEEP HOLE	Brass Case B.M.	Brass Case C.B.M.	Gold Steel Case B.M.	Brass Case B.M.	Gold Steel Case B.M.	hermome
15 PSI		G20	D [BLUE]	· ·	-	-	•	-	-	E
30 PSI [Red Line	e 15-30]	G1	5D*		-		•	-	-	
30 PSI [Red Line	e 15-30]	G	79D		G2D		G2SD	G22D	G22SD	Ĕ
30 PSI		G	BOD		G74D	-	G74SD	G75D	G75SD	
60 PSI		G8	3D*		G5D	G105	G5SD	G25D	G25SD	2
100 PSI		G4	9D*	G185	G6D	G106	G6SD	G26D	G26SD	es
200 PSI		G	78D	G178	G4D	G104	G4SD	G24D	G24SD	D
300 PSI		G8	4D*	G184	G33D	-	G33SD	-	-	<b>D</b>
400 PSI			73D	-	G1D	G101	G1SD	G21D	G21SD	Ga
1/4, 1/2, 3/4, FULI	L	G1	9D*	· ·	-		•		•	
600 PSI			-	-	G8D	G108	G8SD	G28D	G28SD	
1000 PSI				•	G34D	•	G34SD		•	
3000 PSI, 🕒 L			-	-	-	-	G3SD	-	-	
4000 PSI, (€L) L		G5	6D*	G182	G7D	-	G7SD	G27D	G27SD	
6000 PSI, 🕒 L	ISTED		-	- M — Dottom May	G44D	- Pack Mount * Wit	G44SD	G46D	G46SD	
B.M. = Bottom Mount. C.B.M. = Center Back Mount. * With Gauge Boot. ** For 1/8" NPT add [-4] to Part Number. <b>Replacement Lenses</b> Part# 11/2" Description Part# 2" Description Part# 21/2" Description										
GB15S	DISPL	AY CARD.	PL15	Posi-Lock	PL2	Posi-Lock	PL25	Posi-Lock	GB20S	
11/2"			05-1-52	Flat Plastic	05-2-52-4	Flat Plastic				
Gauge	B	ULK	05-1-52-3	Posi-Lock	05-2-52-7	Posi-Lock	05-3-52-8	Posi-Lock	Gauge	
Boot Set Black			05-1-63	Friction Ring	05-2-63-2	Friction Ring			Boot Set Black	



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#### **UNIBRITE 1450A Acid Flux Cored Silver Bearing Solder**

Part#

B1KD9

It is a high strength acid core silver bearing soft solder that is free of cadmium, zinc and lead. Can be used on most alloys including copper, brass, stainless steel and nickel. A low working temperature of 430°F [221°C] eliminates weakening of the base metal caused by high heat brazing, resulting in greater overall strength of the components being joined.

Description

1/16" X 10'



	UNI-1450 Soft Soldering Flux #F4CYG	
Allovs	A heavy duty liquid soft soldering flux that removes oxidation from surfaces to be soldered and improves wetting characteristics of the liquid solder.	ANI-14450 TANLESS STEEL MODERNG FLUX
	solder.	EACVG

**UNIBRITE 1450A** 



**Solidus Melting Point** 

430°F [221°C]

#### **UNI-1500FC**

Superior wetting for complete tinning and general purpose brazing. Ideal for maintenance repairs on steel materials other than stainless steel. Use for fabricating and repair of galvanized sheets, pipes or angles. Tensile strength: 75,000 psi.

	11b. Package	1lb. Package	Solidus
	3/32 X 18" Rod	1/8 X 18" Rod	Melting Point
Uni-1500FC	C42F1	C42H1	1620°F [882°C]



Uni-1500 Flux dissolves and removes oxides rapidly and thoroughly without bubbling and flows the filler metal into the joint freely and smoothly.







### ALUMA-BRAZE™– UAB





- Flux inner core means no manual flux application is required
- Low temperature self-fluxing alloy ideal for brazing aluminum to aluminum or aluminum to copper
- Applications include HVAC and Refrigeration repairs, patching holes in aluminum coils and brazing a copper to aluminum transition fitting

Solidus: 800°F/427°C Liquidus: 900°F/482°C .078" x 100" Approx. (1.9812mm x 2540mm)



UNI-4300 Aluminum Solder Kit

Uniweld's UNI-4300 aluminum soft solder kit with metal tip flux applicator has a low melting point of 500°F [260°C] and 20,000 PSI tensile strength and is a great solution for the service technician who is frequently confronted with the task of repairing or joining aluminum to aluminum and aluminum to copper.

#### IOINS ALÚMINUM, COPPER AND BRASS



#### UNI-4200 Self Fluxing Aluminum Rods

Used for joining and repairing aluminum extrusions and castings. Also can be used for the manufacture and repair of aluminum doors and windows, repairing ladders, gutters, siding, aluminum boats and instrument boxes. Most kirksite and zinc based dies can be repaired with this alloy. May also be used as a wear-facing alloy on aluminum.

Part#	Description
P3KH9	UNI-4200 Self Fluxing Aluminum Rods
P4KD9S	UNI-4300 Aluminum Solder [10 ft. coil] with a 2 oz. flux bottle & metal tip flux applicator
P4KD9	UNI-4300 Aluminum Solder [10 ft. coil] with a 1 oz. flux bottle
F6CYL	UNI-4300 1 oz. Flux Bottle

**P3KH9** 



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P4KD9S



HVAC/R Tools HVP107 21 HVP108 Capacitor Box with (4) Screws and (4) Washers for HVP109 Dual Voltage Switch for HVP6, HVP8 and HVP12 (After 2019) 9 HVP110 8 HVP111

22

set of 2 cartridge exhaust valve HUMM-VAC VACUUM PUMP REPLACEMENT PARTS (BEFORE 2019)

Repair Kits Include: First stage front rotary vanes and springs, second stage back rotary vanes and springs, trap intake O-Ring, trestle trap O-Ring, shaft seal, oil reservoir O-Ring,

13

13

HVP121

HVP123

HVP124

**HVP125** 

HVP8, Red (After 2019)

Yellow (After 2019)

Red (After 2019)

Black (After 2019)

HVP12, Black (After 2019)

HVP122 Oil Reservoir with Sight Glass and (4) Bolts for

Repair Kit for HVP6 HUMM-VAC Vacuum Pump,

Repair Kit for HVP8 HUMM-VAC Vacuum Pump,

Repair Kit for HVP12 HUMM-VAC Vacuum Pump,

_										
Ref#	Part#	Description	Ref#	Part#	Description					
3	42252	Oil Drain Fitting, Hex with O-Ring for HVP6, HVP8 and HVP12 (Before 2019)	8	42261	Electrical On/Off Rocker Switch for HVP6, HVP8 and HVP12 (Before 2019)					
4	42253	Gas Ballast with O-Ring for HVP6, HVP8 and HVP12 (Before 2019)	9 13	42262 42275	Voltage Slide Switch for HVP6, HVP8 and HVP12 (Before 2019) Oil Reservoir with Sight Glass and (4) Bolts for HVP8, Red					
6	42257	Chassis Base With Bolt (Set of Two) Yellow for HVP6 (Before 2019)	13	42276	(Before 2019) Oil Reservoir with Sight Glass and (4) Bolts for HVP12, Black					
7	42260	Base Rubber Feet with Bolt and Washer (Set of Two) for HVP6, HVP8 and HVP12 (Before 2019)			(Before 2019)					
	VACUUM PUMP REPLACEMENT PARTS									

Ref#	Part#	Description	Ref#	Part#	Description
1	42250	Exhaust Dome with O-Ring for UVP1.5 & UVP5	18	VP522	Handle for U5VP2
14	42280	Oil Reservoir with Sight Glass and (4) Bolts for UVP5	17	VP567	Platform Steel Base with Rubber Feet for U5VP2
5	42281	Intake Fittings (1/4" X 3/8") with Tethered Caps	20	VP577	Metal Fan Cover for U5VP2
		and Check Valve for UVP5	19	VP586	Electrical On/Off Rocker Switch for U5VP2
1	VP502	Exhaust Dome with O-Ring for U5VP2	15	VP587	Intake Fitting 1/4" and 3/8" with Tethered Caps
14	VP5124	Oil Reservoir with Sight Glass for U5VP2			for U5VP2



Capacitor Box with (4) Screws and (4) Washers for

Power On/Off Rocker Switch for HVP6, HVP8 and HVP12

Power Socket Outlet for HVP6, HVP8 and HVP12

HVP112 Capacitor 100µF for HVP6 and HVP8 (After 2019)

HVP6 and HVP8 (After 2019)

HVP12 (After 2019)

(After 2019)

for All Models

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R1363	61	RTBM78	74	TH9	20,22,24	UTC706	70
R1546	61	RTBR	74	TH9B	25	UVG2	41,54
R1549	61	RTBRC	74	TXRK	12,13	UVGA	41
R1558	61	S21	20	TYPE13-8VM	14	UVP1.5-110	38
R1560	61	S22	20	TYPE17-0		UVP1.5-220	
					7,8,9,10,13		38
R1562	61	S23	20	TYPE17-00	13	UWGH	94
R1563	61	S24	20	TYPE17-000	13	UWPH	94
R40	31	S25	20	TYPE17-1	10,13	UWSWH	94
R96K	27	S26	20	TYPE17-15	11,14	UWVPBC	94
R96RK	62	S27	20	TYPE17-2	5,6,7,8,9,10,11,13	UWVSWC	94
RB	27	SHLP	22	TYPE17-3	7,13	UWVSWC	94
RB2	9,10,27	SPR3A	50	TYPE17-30	14	UYA14	40
RB2B	27	SPR3K	50	TYPE17-4	13	UYA38	40
RCVB	35		22		13	VP502	
		ST06MP		TYPE17-5			85
RFA100	35	ST07MP	22	TYPE17-9	14	VP5124	85
RFA101	35	ST07RSM	22	TYPE17TFT	15	VP522	85
RFAA	35	T-2	21	TYPE28-2	14	VP567	85
RFAB	35	T2A-12	19	TYPE28-4	14	VP577	85
RFAM100	35	T2A-3	19	TYPE28-6	14	VP586	85
RFAM101	35	T2A-5	19	TYPE28-8	14	VP587	85
RHP184A	61	T2A-8	19	U5VP2	38	VP86	85
RHP184A-2	61	T-3	21	UAB	84	VP87	85
RHP400	60	T-4	21	UBV14	55	W1	44
RHP500	61	T-5	21	UBV146B	55	W05	5,6,7,8,9,10,11,18,19,20
RHP800	61	TCLD	33	UBV146R	55	W06	33
RHP800N	61	TCMD	33	UBV146S	55	W10X	33
RHPC1500	61	TCSD	33	UBV146Y	55	W94	33
RLP	27	TCVB	35	UDFT	68	WG53	5,6,7,8,9,10,11,33
RLPB	27	TFA100	35	UEH1-38	66	WH550	11,12,14
RMC	27,29	TFA101	35	UEH-14	66	X09R	29
RMC100	5,6,7,8,28	TFAA	35	UEH2-12	66	X25R	12,13
RMC2	9,10,27	TFAB	35	UEH3-58	66	X26R	12,13
RO	27,28	TFAM100	35	UEH4-34	66	X3BU	12,13
R0100	5,6,7,8,9,10	TFAM101	35	UEH-516	66	X3BUC	18
ROB	27	TGB15	79	UEH5-78	66	X4BU	18
RP03A	22	TGB100	79	UEH6-118	66	X4BUC	18
RP03B	22	TGB106	79	UEH7-138	66	X5BU	18
RP03HN	22	TGB1100	79	UEH8-158	66	X5BUC	18
RP3A	7,22	TGB115	79	UEH9-218	66	X5MCU	18
RP3B	22	TGB130	79	UEHST	66	X5MCUC	18
RP3E	22	TGB160	79	UEK1	66	X6MCU	18
RP3T2	23	TGB206	79	UGACAT	93	X6MCUC	18
RP3T3	23		79			X8BU	
		TGB2100		UGACATD	93		18
RP3T5	23	TGB215	79	UHR	53,54	XFST	94
RP3T6	22,24	TGB230	79	ULRC14	43	ZDC	31
RSB2	11,27,28	TGB260	79	ULRC516	43	ZDC12PDC12	31
RSDBIT1	75	TGB30	79	UNF3	62	ZDC24	31
RSDBIT2	75	TGB4115	79	UNF93A	62		
RSDBIT3	75	TGB415	79	UNIWELDCAP	93		
RSDBIT4	75	TGB4215	79	USAM	45		
RSDBIT5	75	TGB60	79	USAM3H	45		







North American Technician Excellence (NATE), headquartered in Arlington, VA, was founded in 1997 and is the nation's largest non-profit certification organization for heating, ventilation, air conditioning and refrigeration technicians. NATE is the only technician certification organization governed, owned, operated, developed and supported by the HVACR industry.

#### **COURSE NAME: FLAME TOOLS SAFETY TRAINING**

NATE COURSE# 6111-0001

**CONTINUING EDUCATION HOURS (CEH): 2 HOURS** 

COURSE OVERVIEW: A field training course that lasts approximately 2 hours with lectures, discussions and demonstrations.

#### **REQUIRED TOPICS:**

- Introduction Overview of Uniweld Products, Inc.
- Fire Triangle A review of the Fire Triangle and the basic elements of fire.
- Fuel Gases and Cylinders General discussion on the different types of fuels used to braze and solder copper tubing. Working temperatures of the various fuels and their applications. Safety precautions when working with the various fuel gases and cylinders.
- Flame Tools A review of oxyacetylene and air-fuel flame tools and their applications within the HVACR, Plumbing and Maintenance industries.
- Flame Tool Set Up and Safety Step by step procedure on setting up an oxyacetylene outfit and the proper safety procedures to apply when in use. This will include a review on setting the regulator delivery pressures based on the tip size used, proper procedures on shutting down an oxyacetylene outfit and preparing it for storage.
- Alloys Review of the various alloys used in soldering/brazing, including aluminum alloy.
- Nitrogen Regulators and Flow Indicators Review the use of nitrogen when purging an AC or R system and the effective way to monitor nitrogen flow.
- **Brazing Demonstration** Review capillary action of brazing alloy with proper brazing techniques and which flame tool to use in certain applications.

All attendees must sign a NATE Official Recognized Provider Attendance Record.

	SERVICE	INSTALLER			
ACSV	Air Conditioning – Air to Air	ACIN	Air Conditioning – Air to Air		
HPSV	Heating – Reverse Cycle Air to Air	HPIN	Heating – Reverse Cycle Air to Air		
RLSV	Light Commercial Refrigeration	RLIN	Light Commercial Refrigeration		
RCSV	Commercial Refrigeration				

This course applies to the following NATE course outlines:

NATE is a registered trademark of the North American Technician Excellence, Inc.





# Marketing/Sales Aids



English Safety Poster Part #USP8E

Spanish Safety Poster Part #USP8S



# SAFETY POSTERS



French **Safety Poster** Part #USP8F

Arabic **Safety Poster** Part #USPA













**Standard Size** 8.5" X 11" Part #UGACAT





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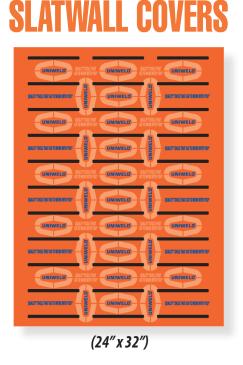








Uniweld merchandising display materials help organize product selection to stimulate interest and entice technicians to make a purchase. The Uniweld headers, vinyl pegboard and slatwall covers can be applied to existing floor displays or wall mounted materials. Contact your local Uniweld representative to order and setup your merchandising display today!



Part #UWVSWC Slatwall Vinyl Cover w/tape

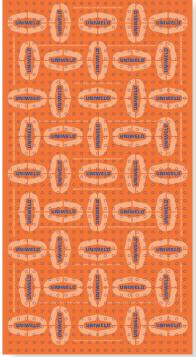
# **UNIWELD HEADERS**



(24.5″ x 8.5″)

Part #UWGH Gondola Header w/2-Self Stick Clips Part #UWPH Pegboard Header w/Black Button Pegs Part #UWSWH Slatwall Header w/Double Sided Tape





(24″ x 47″)

Part #UWVPBC Pegboard Vinyl Cover with Black Plastic Cover Pegs (6 per Cover) Part #PHCH Black Plastic Cover Pegs)



Part #XFST Reorder Tag







Part #CM001

HUMM•VAC Vacuum Pumps



Part #CM003

SmarTech Refrigerant Scale



Part #CM005

CAPN'N HOOK® Oxyacetylene Outfit & Tips





Ball Valves Vacuum Rated to 20 Microns

Part #CM015

MAXEVAC Pro and Basic Evacuation Kit



Uniweld Products, Inc. Fort Lauderdale, FL 33312 U.S.A. Customer Service: 800.323.2111 info@uniweld.com • www.uniweld.com



Part #CM002

SmarTech Wireless Digital Manifold USMAN 145



Part #CM004

**HVACR** Products



Part #CM013

Twister & Twister Ignite Kits and Tips



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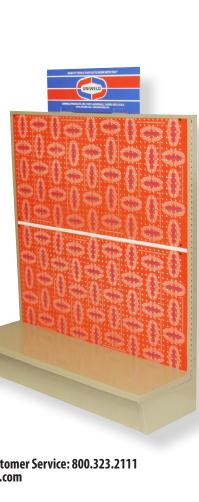
# Marketing/Sales Aids



#### Part # GONDOLA

- Measuring 48" (L) x 54" (H) x 12" (W) display with base shelf.
- Features attractive, durable orange and blue Uniweld logo vinyl peqboard covers and header sign.
- Includes: (25) 4" Pegboard Hooks, (10) 8" Pegboard Hooks, (50) Reorder Tags, Authorized Distributor Decals and instructions.
- Products sold separately
- Contact your local Uniweld representative to order and setup your Merchandising Gondola display today!







#### WORLD HEADQUARTERS UNIWELD PRODUCTS, INC.

2850 Ravenswood Road Fort Lauderdale, Florida 33312 954.584.2000 • Fax: 954.587.0109 800.323.2111 • www.uniweld.com Email: info@uniweld.com

#### HOUSTON WAREHOUSE UNIWELD PRODUCTS, INC.

South Loop Business Park 6121 Long Drive Houston, TX 77087-2008 800.323.2111 Fax: 954.587.0109

#### CANADIAN WAREHOUSE METRO UNIWELD PRODUCTS, LTD.

Stringer Sales Western Canadian Warehouse #20-11010 - 46 Street SE Calgary, AB T2C 1G4 Office: 403.256.4900 Toll Free: 877.955.4975 Fax: 403.256.1208 Email: sales@stringersales.com Metro Uniweld Catalyst Channel Marketing Eastern Canadian Warehouse 2323 Winston Park Drive #2 Oakville, ON L6H 6R7 Office: 800.323.2111 Fax: 954.334.2897



# HVAC/R & PLUMBING EQUIPMENT CATALOG

Since 1949, Uniweld, a U.S. Manufacturer, has employed over 300 workers who help design, manufacture and distribute U.S. made products to be sold worldwide! As we celebrate 65 years of manufacturing excellence, our focus is ever set on the future to provide a superior product coupled with unmatched customer service. Uniweld's World Headquarters and manufacturing facility based in Ft. Lauderdale, FL has state of the art robotic CNC machines that produce quality flame tools, accessories and pressure gauges for the air conditioning, refrigeration, plumbing, heating, automotive and maintenance industries. We thank you for supporting Uniweld Products.

## UNIWELD

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