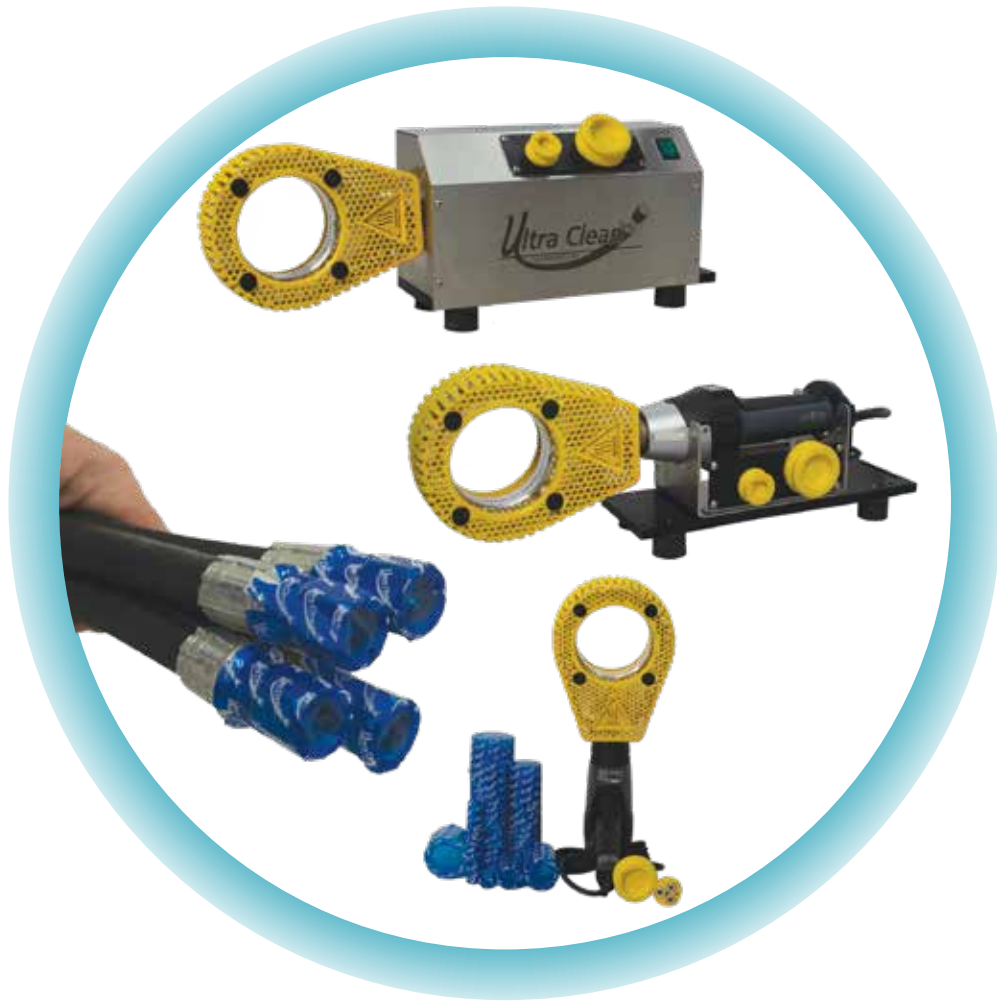


SEAL EASY

Hose, Tube and Pipe Sealing Systems



Ultra Clean Technologies offers innovative and economical solutions to protect cleaned hoses, tubes and pipes. The **Clean Seal System** heat-shrinks a **Clean Seal Capsule** tightly around the end of a hose assembly. Seal a single hose, or multiple hoses simultaneously! Just nineteen size capsules needed for most applications. Shorter capsules available to accommodate angle/elbow (ie: 45° and 90°) fittings.

**Clean Seal System,
Heat Shrink Gun, Clean Seal Kits,
Clean Seal Capsules,
Capsule Dispenser Stand**



**Connect with
Ultra Clean!**

Seal Easy with Ultra Clean!

7

Clean Seal System



The Clean Seal System utilizes heat shrink technology to encapsulate the end of a hose or tube assembly with a Clean Seal Capsule, eliminating re-contamination that is problematic with traditional capping and plugging methods. Re-contamination occurs when ill-fitting caps and plugs are forced onto assemblies, causing plastic particles to shear off into the hose or tube.

Clean Seal System leaves your assemblies tightly sealed and 100% contamination free, and provides an easier, less costly, and more effective solution than traditional capping methods. You'll never have to deal with an excessive cap and plug inventory again.

UC-CSC-1424 through UC-CSC-8060 Clean Seal Capsules

- Preserves cleanliness.
- Eliminates cap inventory hassles.
- Fast, clean, and easy capsule installation.
- Easy, pull-tab removal.
- No particulates or sticky residue left behind.
- Just 19 capsule sizes needed for all assemblies.
- Universal, durable, secure fit up to 3" (78mm).
- Easy to use heat shrink machine or heat shrink gun for low or high volume production.
- Seals straight and elbow couplings - shorter capsules available for angled/elbow (i.e.: 45° and 90°) fittings.
- Standard blue color or custom color private labeling for easy identification.
- Sold in bulk cartons or packaged quantities.
- Shipped pre-stacked to ensure cleanliness on inside.
- Recyclable through your local recycle program.

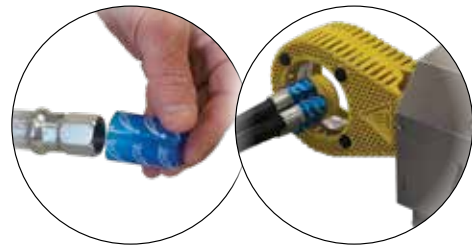


Clean Seal Capsules stack neatly for efficient shipping and storing!



Easy-On/Easy-Off Application

Secure and Seal!



Secure the appropriate size Clean Seal Capsule onto the end of hose or tube fitting using the Magnetic Puck.

Seal the secured fitting by slowly placing through the Air Knife for a perfect heat-shrink seal.

Rip and Remove!



Rip the convenient pull-tab upward.

Remove the loosened Clean Seal Capsule.

Custom-Printed Private Label Capsules

Become professional grade and showcase your brand, quality, and cleanliness!

Take advantage of Ultra Clean's in-house custom capsule printing capabilities to promote your brand and your brand's dedication to cleanliness.

- Low minimum order quantity (MOQ) requirements.
- Custom printed logos in full color.
- Film available in blue, white, red, green, and yellow.
- Minimal cost for high visibility!



UC-CSS-230V-AK Clean Seal System w/Air Knife

Designed for premium-fit sealing of carbon steel fittings in a production environment



- Magnetic Puck holds capsule onto carbon steel fitting for a perfect seal during sealing process.
- Magnetic Puck holds the nut forward on 90° and 45° fittings for easy insertion into the Air Knife.
- Air Knife has heat guard and large 110mm center opening accessible from either side.
- One pass seals single or multiple hose or tube assemblies.
- Capsules fit and seal hose and tube fittings from 3/8" OD (10mm) through 3" OD (78mm).
- 230V single-phase AC power at 50/60Hz draws < 5 amps.
- Customer supplies L6-15 NEMA twist lock receptacle (North American market only).
- ON/Off rocker switch illuminates green when "on."
- 24/7 operating capacity.
- Built-in external air filter minimizes heat gun clogging and maintenance, increasing heat gun longevity.
- Heat side of machine is fully insulated.
- Durable, long-lasting brushless motor for high-volume production environments.

UC-CSS-120V-AK Air Knife and Cradle



- A Cradle holds and locks the 120V heat gun into place for bench top shrinking of capsules.
- The heat gun can be easily removed from the cradle for remote capsule shrinking.
- Magnetic Puck holds the Capsule onto the fitting for a perfect seal during the shrinking process.
- Magnetic Puck pulls the swivel nut forward on 90° and 45° fittings for easy insertion into the Air Knife for capsule shrinking.
- Air Knife has heat guard and large 110mm center opening that can be accessed from either side.
- Can seal single or multiple hose or tube assemblies.
- Clean Seal Capsules will seal hose or tube fittings from 3/8" OD (10mm) through 3" OD (78mm).

Capsule Shrink Time for Clean Seal Systems at Multiple Intervals

Machine Warm-up Time from Cold Start (Minutes)	1	2	3	4	5	6	7	8	9	10
Machine	Seal Time (Seconds)									
UC-CSS-230V-AK	3.5	2.5	2	1.5	1.25	1	1	0.75	0.75	0.75
UC-CSS-120V-AK	17	10	4.5	3.25	2.5	2.25	2	1.75	1.5	1.5
UC-HL1920E	20	12	6	4	3	3	2.5	2	1.75	1.75

UC-HL1920E Heat Shrink Gun

- Variable-temperature electronic heat gun with thermocouple control for flexible use and maximum reliability.
- Duratherm heating element for long life and even heat with a temperature range of 120°F (49°C) to 1100°F (593°C).
- Cool down switch renders gun immediately cool-to-the-touch.
- 120V AC power draws 1500 watts, produces 17.6CFM
(European model uses 240V AC and european plug).
- Capable of sealing multiple hoses simultaneously.



Accessories

See previous page for usage and benefits.

UC-1.5-AK Air Knife w/Heat Guard



UC-SMP (small) UC-LMP (large) Magnetic Puck



Clean Seal System Kits (3)

Available in North America only

1. **UC-HL1920HK:** Hardware-only kit that includes portable heat shrink gun, 110mm air knife.
2. **UC-HL1920SK:** Hardware & Capsules Starter Kit that includes capsules listed on Clean Seal System Parts List on following pages.
3. **UC-HL1920SK-2:** Hardware & Capsules Starter Kit for applications up to 2" ID that includes capsules listed on Clean Seal System Parts List on following pages.



See next page for Capsule Dispenser Stand Kit and Parts.

UC-CD-DK *Easily store and dispense Clean Seal Capsules!*

Capsule Dispenser Stand Kit

Hook and groove system enables easy and flexible positioning of dispenser tubes!

The full size range of Clean Seal Capsules is accommodated by just four sizes of transparent, removable dispenser tubes (UC-CD-1.0, UC-CD-1.5, UC-CD-2.5, & UC-CD-3.0). Each capsule size requires a separate dispenser tube.

Strong magnetic strip holds dispenser tubes firmly in place.

Easel-like design enables placement on a bench or flat surface, or mounted to a wall.



Unique magnetic disc and removal wand system assists in gently dispensing the first capsule from every newly inserted Clean Seal Capsule stick. Grommet and lanyard for pull-wand included.



Capsule identifier (size, part number) labels provided for dispenser tubes for easy identification, loading and re-ordering.

Part Number #	Description
Stand (& included parts upon first order)	
UC-CDS	Stand w/magnetic strip
UC-CD-Wand	Removal Wand
UC-CD-SC	Laminated Clean Seal Capsule Sizing Chart with Grommet
UC-CD-LNYD	Laminated Clean Seal Capsule Sizing Chart with Lanyard
Dispenser Tubes	
UC-CD-1.0	Dispenser for UC-CSC-1424, UC-CSC-1624, UC-CSC-1824
UC-CD-1.5	Dispenser for UC-CSC-2023, UC-CSC-2030, UC-CSC-2224, UC-CSC-2527, UC-CSC-2540, UC-CSC-2840, UC-CSC-3133, & UC-CSC-3140
UC-CD-2.5	Dispenser for UC-CSC-3440, UC-CSC-3840, UC-CSC-4345, UC-CSC-4650
UC-CD-3.0	Dispenser for UC-CSC-5260, UC-CSC-5860, UC-CSC-6760
Kit	
UC-CD-DK	Includes stand with magnetic strip, three (3) small, one (1) medium, and one (1) large dispenser tube.

Laminated Clean Seal Capsule Chart included.

Clean Seal System *and* Capsules Parts List

*Shorter length capsules are recommended for elbow/angled fittings (i.e. 45° and 90°).

Part Number#	Description
Heat Shrink Machine	
UC-CSS-230V-G2	Production Clean Seal System with Timer
UC-CSS-230V-HG-G2	Production Clean Seal System with Heat Guard and Timer
UC-CSS-230V-AK	Production Clean Seal System, Air Knife with Heat Guard and Magnetic Pucks
UC-CSS-120V-AK	120V Heat Shrink Gun, Cradle, Air Knife with Heat Guard and Magnetic Pucks
Heat Shrink Guns and Accessories	
UC-HL1920E	Heat Shrink Gun
UC-1.5-AK	100mm Air Knife with Heat Guard for 1½" Connection
UC-2.0-AK	100mm Air Knife with Heat Guard for 2" Connection
UC-SMP	Small Magnetic Puck
UC-LMP	Large Magnetic Puck
Clean Seal Kits (Available in N. America only)	
UC-HL1920HK (Hardware Kit)	120V Heat Shrink Gun (UC-HL1920E), 100mm Air Knife <i>with</i> Heat Guard for 1½" Connection (UC-1.5-AK) and Magnetic Pucks (UC-SMP, UC-LMP)
UC-HL1920SK (Starter Kit)	Includes all component of UC-HL1920HK Kit, plus one (1) package of each capsule size UC-CSC-1824P, UC-CSC-2030P, UC-CSC-2540P, UC-CSC-2840P, UC-CSC-3140P, UC-CSC-3440P, UC-CSC-3840P, UC-CSC-4650P
UC-HL1920SK-2	Includes all component of UC-HL1920HK and UC-HL1920SK kits, plus one (1) package of each capsule size UC-CSC-5260P, UC-CSC-6760P, UC-CSC-8060P

Clean Seal Capsules

Grey area indicates capsule sizes included in kit UC-HL1920SK.

Packaged		Bulk		Sizing			*Fitting	
Part Number#	Carton Qty	Part Number#	Carton Qty	Capsule Size <small>Inside Diameter x Length in mm</small>	Hex Sizes Covered in mm	Hex Sizes Covered in inches	Straight	Elbow
UC-CSC-1424P	960	UC-CSC-1424B	12,320	14X24	10mm to 13mm	.39" to .51"	X	X
UC-CSC-1624P	840	UC-CSC-1624B	9,000	16X24	12mm to 15mm	.47" to .59"	X	X
UC-CSC-1824P	840	UC-CSC-1824B	7,360	18X24	14mm to 17mm	.55" to .67"	X	X
UC-CSC-2023P	810	UC-CSC-2023B	23,400	20 X 23	15mm to 19mm	.59" to .75"		X
UC-CSC-2030P	810	UC-CSC-2030B	23,400	20 X 30	15mm to 19mm	.59" to .75"	X	
UC-CSC-2224P	810	UC-CSC-2224B	22,500	22 X 24	18mm to 21mm	.71" to .83"		X
UC-CSC-2527P	800	UC-CSC-2527B	17,600	25 X 27	18mm to 24mm	.71" to .94"		X
UC-CSC-2540P	800	UC-CSC-2540B	17,600	25 X 40	18mm to 24mm	.71" to .94"	X	
UC-CSC-2840P	720	UC-CSC-2840B	15,200	28 X 40	22mm to 26mm	.87" to 1.02"	X	
UC-CSC-3133P	640	UC-CSC-3133B	12,240	31 X 33	24mm to 29mm	.94" to 1.14"		X
UC-CSC-3140P	640	UC-CSC-3140B	12,240	31 X 40	24mm to 29mm	.95" to 1.14"	X	
UC-CSC-3440P	640	UC-CSC-3440B	10,240	34 X 40	27mm to 32mm	1.07" to 1.26"	X	
UC-CSC-3840P	560	UC-CSC-3840B	7,800	38 X 40	30mm to 36mm	1.19" to 1.42"	X	X
UC-CSC-4345P	480	UC-CSC-4345B	6,240	43 X 45	32mm to 41mm	1.26" to 1.61"	X	X
UC-CSC-4650P	480	UC-CSC-4650B	5,760	46 X 50	34mm to 44mm	1.34" to 1.73"	X	X
UC-CSC-5260P	400	UC-CSC-5260B	4,400	52 X 60	41mm to 50mm	1.62" to 1.97"	X	X
UC-CSC-5860P	400	UC-CSC-5860B	3,600	58 X 60	49mm to 56mm	1.93" to 2.20"	X	X
UC-CSC-6760P	320	UC-CSC-6760B	2,560	67 X 60	55mm to 65mm	2.16" to 2.56"	X	X
UC-CSC-8060P	420	UC-CSC-8060B	1,736	80 X 60	64mm to 78mm	2.52" to 3.07"	X	X

Capsule Size Selection by Fitting

Fitting	Capsule
- 2 NPT Male	1424
- 4 NPT Male	1824 or 2030
- 4 JIC Fem	1624, 1824 or 2030
- 4 JIC Fem 90	1824 or 2023
- 4 Flat Face Fem	2030
- 4 Flat Face Fem 90	2023
- 5 JIC Fem	2030
- 6 NPT Male	2030
- 6 JIC Fem	2540
- 6 JIC Fem 90	2527
- 6 Flat Face Fem	2540
- 6 Flat Face Fem 90	2527
- 8 NPT Male	2840
- 8 JIC Fem	2840
- 8 JIC Fem 90	2840
- 8 Flat Face Fem	2840
- 8 Flat Face Fem 90	2840
- 8 Flange Code 61	3133 or 3140
- 8 Flange Code 62	3440
- 10 JIC Fem	3140
- 10 JIC Fem 90	3133
- 10 Flat Face Fem	3440
- 10 Flat Face Fem 90	3440
- 10 Komatsu Flange	3840
- 12 NPT Male	3140
- 12 JIC Fem	3840
- 12 JIC Fem 90	3840
- 12 Flat Face Fem	4345
- 12 Flat Face Fem 90	4345
- 12 Flange Code 61	3840 or 4345
- 12 Flange Code 62	4345

Fitting	Capsule
- 16 NPT Male	4650
- 16 JIC Fem	4650 or 5260
- 16 JIC Fem 90	4650 or 5260
- 16 Flat Face Fem	4650 or 5260
- 16 Flat Face Fem 90	4650 or 5260
- 16 Flange Code 61	4650
- 16 Flange Code 62	5260
- 20 NPT Male	5260
- 20 JIC Fem	5860
- 20 Flat Face Fem	5860
- 20 Flange Code 61	5260
- 20 Flange Code 62	6760
- 24 NPT Male	5860
- 24 JIC Fem	8060
- 24 Flat Face Fem	8060
- 24 Flange code 61	6760
- 24 Flange code 62	6760
- 32 NPT Male	8060
- 32 JIC Female	N/A
- 32 Flange Code 61	8060
- 32 Flange Code 62	8060

Capsule Size Selection by Wrench Size

Wrench Size (mm)	O.D. Hex (mm)	Wrench Size (inches)	O.D. Hex (mm)	Capsule Size (First two numbers = outside diameter, Second two numbers = length)	
				Straight	Elbow
10	11.05			1424	
11	12.12	7/16	12.83	1424	
13	14.92	1/2	14.66	1624	
14	16.02	9/16	16.51	1824	
15	17.18			1824	
16	18.58	5/8	18.34	2030	2023
17	19.74			2030	2023
18	20.9	11/16	20.17	2224	
19	22.27	3/4	22.00	2540	2527
		13/16	23.83	2540	2527
22	24.49	7/8	25.65	2540	2527
24	26.75	15/16	27.51	2840	
27	29.56			3140	3133
30	32.95	1-1/8	32.99	3440	
32	35.03			3840	
36	39.55	1-5/16	38.51	4345	
41	45.2	1-1/2	43.99	4650	
46	50.85	1-11/16	49.50	5260	
50	55.37	1-7/8	54.99	5860	
55	60.79	2-1/16	60.50	6760	
60	66.44	2-1/4	65.99	6760	
65	71.3	2-7/16	71.50	8060	
70	76.95	2-5/8	76.99	8060	

If capsule sizes do not match your fittings exactly, use the maximum outside diameter of the fitting. The result of the outside diameter should be slightly smaller than the first two digits of the capsule size (as given in the right-hand column of the chart above); the last two digits indicate the length of the capsule in mm.

