



**HYDRA-FLEX**  
HOSE AND FITTINGS  
SOLUTIONS CENTER

ULTRA CLEAN TECHNOLOGIES

800-791-9111

## UC-HL2 2" Launcher & Kits



### Features & Benefits

- Capable of cleaning 1/8" through 2" hose, tube or pipe.
- UC-HL2 Launcher is supplied with a Full Flow Quick Release Coupling and 360 degree Rotary Plug for proper air flow and non-fatigue operator use.
- Safety Release Bar that locks the faceplate into a closed position for firing Ultra Clean Projectiles.
- Manufactured from precision machined aluminum and fully anodized for harsh environments and heavy use.
- Ideal for production hose and tube shops, mobile hose fabricators and job site applications due to its simplistic design, size and portability.

### Air Requirements

- 80 PSI (5.5 Bar) minimum to 110 PSI (7.5 Bar) maximum.
- 1/2" ID air hose to ensure 55 SCFM (1.6 m<sup>3</sup>/min) air flow.
- 5 micron filter and regulator with gauge are strongly suggested!

### Available Kits (3)

- Kits are customizable based on customer requirements. Call us to discuss your specific needs.
- Information on kit items can be found throughout the Clean Easy section of this catalog.

#### UC-HL-9-2 Kit



##### Includes:

- UC-HL2 Launcher
- Adapter Ring
- Case
- 9 Hose Nozzles, 1/4" through 2"

#### UC-HL-25-2 Kit



##### Includes:

- UC-HL2 Launcher
- Adapter Ring
- Case
- 25 Hose, Tube, JIC, FFORX Nozzles 1/4" through 2"

#### UC-CAP Kit



##### Includes:

- UC-HL2 Launcher
- Adapter Ring
- 19 Nozzles
- Case
- Projectiles: 7mm through 60mm
- Catcher Bucket
- Free Launcher Stand

*Great Starter Kit!*

*Optional: A UC-NH25 Nozzle Holder can be substituted for the Carrying Case for an additional charge. Go to page 25 for details on the Nozzle Holder.*





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## UC-EL1.25 1 1/4" Economy Launcher & Kits

### Features & Benefits

- Capable of cleaning 1/8" through 1-1/4" hose, tube or pipe.
- Has a quarter turn locking ring for easy nozzle change and projectile loading.
- The UC-EL 1.25 is constructed of durable brass and aluminum internal parts, strong plastic handle and anodized aluminum firing head and locking ring.
- Effortless to operate because of its simplistic design.
- Ideal for mobile and job site applications because of its size and portability.

### Air Requirements

- 80 PSI (5.5 Bar) minimum to 110 PSI (7.5 Bar) maximum.
- 1/2" ID air hose to ensure 55 SCFM (1.6 m<sup>3</sup>/min) air flow.
- 5 micron filter and regulator with gauge are strongly suggested!

### Available Kits (2)

- Kits are customizable based on customer requirements. Call us to discuss your specific needs.
- Information on kit items can be found throughout the Clean Easy section of this catalog.

#### UC-EL7 Kit



Includes:

- UC-EL 1.25 Launcher
- 7 Hose Nozzles
- Case

#### UC-EL7-DP Kit



Includes:

- UC-EL 1.25 Launcher
- 7 Hose Nozzles
- Case
- Catcher Bucket
- Projectiles: 7mm through 40mm

*Additional nozzles for JIC and tube applications are also available if required.*





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## UC-HL3.5 3 1/2" Launcher & Kits

### Features & Benefits

- Capable of cleaning 1/8" through 3-1/2" hose, tube or pipe.
- UC-HL3.5 Launcher is supplied with a Full Flow Quick Release Coupling and unique 360 degree Rotary Plug for proper air flow and non-fatigue operator use.
- UC-HL3.5 Launcher requires a UC-AR2 adapter ring for nozzles 1/8" through 1-1/4" and a UC-AR3 for nozzles 1-1/2" and 2". The unique UC-U55/90 Universal Nozzle (2-1/8" through 3-1/2") does not require an adapter ring.
- Manufactured from precision machined aluminum and fully anodized for harsh environments and heavy use.
- Ideal for production hose and tube shops, mobile hose fabricators and job site applications because of its simplistic design, size and portability.

### Air Requirements

- 80 PSI (5.5 Bar) minimum to 110 PSI (7.5 Bar) maximum.
- 1/2" ID air hose to ensure 55 SCFM (1.6 m<sup>3</sup>/min) air flow.
- 5 micron filter and regulator with gauge are strongly suggested!

### Available Kit (1)

- Kits are customizable based on customer requirements. Call us to discuss your specific needs.
- Information on kit items can be found throughout the Clean Easy section of this catalog.

### UC-HL-1-3.5 Kit



#### Includes:

- UC-HL3.5 Launcher
- UC-AR2 & UC-AR3 Adapter Ring
- UC-U55/90 Nozzle
- Case



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## UC-HL4.5 4½" Launcher & Kits



### Features & Benefits

- Capable of cleaning 1/8" through 4-1/2" hose, tube or pipe.
- UC-HL4.5 Launcher comes complete with the UC-4.5LN aluminum locking nozzle.
- UC-HL4.5 Launcher is supplied with a -8 SAE male flare and female swivel with 1/2" hose barb for correct SCFM air flow requirements.
- Capable of passing 50% more SCFM than our other launchers. This is extremely important when doing applications above 3-1/2" and long lengths of hose, tube or pipe.
- Manufactured from precision machined aluminum and fully anodized for harsh environments and heavy use.
- Ideal for job site applications because of its simplistic design, size and portability.
- The UC-HL4.5 is capable of cleaning 1/8" through 3-1/2" when combined with our adapter rings and nozzles using the UC-LR locking ring in place of the UC-4.5LN locking nozzle.

### Air Requirements

- 80 PSI (5.5 Bar) minimum to 110 PSI (7.5 Bar) maximum.
- 1/2" ID air hose to ensure 110 SCFM (3.1 m³/min) air flow.
- 5 micron filter and regulator with gauge are strongly suggested!

### Available Kit (1)

- Kits are customizable based on customer requirements. Call us to discuss your specific needs.
- Information on kit items can be found throughout the Clean Easy section of this catalog.

### UC-HL-1-4.5 Kit



#### Includes:

- UC-HL4.5 Launcher
- UC-AR2 Adapter Ring
- UC-AR3 Adapter Ring
- UC-LR Aluminum Locking Ring
- UC-H4.5LN Aluminum Locking Nozzle





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## Ultra Clean Projectile Kits

### UC-P1-Projectile Kit



Includes:

- 11 bags of Ultra Clean Projectiles for cleaning out hose, tube and pipe applications up to 1/4" to 1-1/4" ID.
- These projectiles also form a sub-kit that is included in the UC-EL7-DP Economy Launcher Kit.

### UC-P2-Projectile Kit



Includes:

- 13 bags of Ultra Clean Projectiles for cleaning out hose, tube and pipe applications up to 1/4" to 2" ID.
- These projectiles also form a sub-kit that is included in the UC-CAP 2" Starter Kit.

### Projectiles

Model	Size	Bag Qty
UC02	2mm	100
UC03	3mm	100
UC04	4mm	100
UC05	5mm	100
UC06	6mm	100
UC07	7mm	100
UC08	8mm	100
UC10	10mm	100
UC12	12mm	100
UC14	14mm	100
UC16	16mm	100
UC18	18mm	100
UC20	20mm	50
UC22	22mm	50
UC24	24mm	50
UC26	26mm	50
UC28	28mm	40
UC30	30mm	40
UC33	33mm	40
UC36	36mm	30
UC40	40mm	30
UC45	45mm	20
UC50	50mm	20
UC55	55mm	15
UC60	60mm	15
UC65	65mm	10
UC70	70mm	10
UC75	75mm	10
UC80	80mm	10
UC85	85mm	10
UC90	90mm	10
UC95	95mm	10
UC100	100mm	10
UC110	110mm	10
UC120	120mm	10
UC130	130mm	10
UC140	140mm	10
UC150	150mm	10

↑ Grey area within this line included in UC-P1-Projectile Kit. ↓  
 ↑ Grey area within this line included in UC-P2-Projectile Kit. ↓



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## UC-BM1.25 1 1/4" Bench Mount Launcher



### Features & Benefits

- Capable of cleaning 1/8" through 1-1/4" hose, tube or pipe.
- The Bench Mount Launcher is supplied with a 5 micron air filter, pneumatic foot switch and twin line air hose and your choice of 7 nozzles 1/4" through 1-1/4".
- Effortless to operate with a cycle time of 1.2 seconds.
- Ideal for production type environments because of its speed and simplicity.
- Stainless steel housing with anodized aluminum internal components.

### Air Requirements

- 80 PSI (5.5 Bar) minimum to 110 PSI (7.5 Bar) maximum.
- 1/2" ID air hose to ensure 38 SCFM (1.1 m<sup>3</sup>/min) at 80 PSI (5.5 Bar) air flow.
- Large industrial compressor strongly recommended.
- UC-D1 Super-Dry Compressed Air Dryer strongly recommended.

### Accessory

#### UC-BM-HH Hand-Held Launcher for Bench Mount

- Lends flexibility to the Bench Mount Launcher by allowing the user to easily take a Hand Held Launcher Accessory directly to a hose or tube.
- Standard 6' extension hose/cable easily attaches to the Bench Mount, no tools required.
- UC-BM-HH Launcher is specially designed for attachment and use with the UC-BM1.25 only.
- Pneumatic trigger in the UC-BM-HH Launcher activates the firing cycle in the UC-BM1.25.
- Utilizes all size nozzles compatible with the Bench Mount unit.
- Air requirements are the same as for the Bench Mount unit.



Hand-held launcher extension quickly and easily attaches to the Bench Mount unit.





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# UC-PVS-III Projectile Verification System

*Guarantees a projectile is never left inside a hose or tube that has been cleaned!*



## Features & Benefits

- Intuitive touchscreen allows for easy navigation and set-up in multiple languages.
- (3) Three Cleaning Modes with time-adjustable air blow.
- Capable of logging data such as projectile counts and faults to monitor that none are left inside a hose or tube that has been cleaned.
- Green light on Containment Barrel goes on and air blow automatically stops when cleaning process is complete and projectile is verified.
- Employs an electronic foot switch to activate the firing sequence of the UC-BM1.25 (1/8" through 1-1/4") Bench Mount Launcher.
- The UC-HL-PVS (1/8" – 2") Electronic Hand Held Launcher can be fired by either the electronic foot switch or built-in electronic trigger.
- Optional remote monitoring (ethernet-based)

## Air Requirements

- 80 PSI (5.5 Bar) minimum to 110 PSI (7.5 Bar) maximum.
- UC-D1 Super-Dry Compressed Air Dryer strongly recommended.

*Detailed features on page 15. . .*



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### Containment Barrel

- Catches and verifies that the projectile and contamination have been expelled.
- Includes a wheeled dolly for ease of use.
- Large filter allows compressed air to escape while retaining contamination residue.
- Built-in sight gauge indicates when system needs emptying.
- Indicator lights signify at which stage system is operating.

*Green* = ready to launch a projectile and/or has successfully verified a caught projectile.

*Yellow blinking* = projectile has been fired and is on its way through a hose or tube.

*Red* = projectile was not verified and may still be in the hose or launcher.



### Touchscreen Display

- Touchscreen display allows user to navigate quickly and easily through the set-up process, prompting user to select:
  - Language
  - Operator I.D.
  - Projectile size to be counted and verified
  - Cleaning Mode
- Optional Ethernet-based technology allows the system to be integrated into a network, enabling the process to be monitored from a remote computer.

### Cleaning Mode Selection

A Cleaning Mode must be selected on the touchscreen at the start of each use. This allows the user to select the proper mode based on the assembly processing and contamination level of the hose or tube production.



- **Normal Clean:** One projectile is propelled from each side of the hose assembly. Recommended for hoses that have undergone the cutting process and no skiving.
- **Air Purge +1 Projectile:** Based on length of hose and contamination and particle levels, a timer is set to determine duration of air blow. Timer is factory set to 3-seconds. Air blow is adjustable starting at 1-second. After air blow stops, a projectile must then be loaded and fired. Recommended for hoses with low-to-medium contamination and particle levels, particularly from skiving.
- **Air Purge +2 Projectiles:** Same as Air Purge +1 Projectile, but recommended for hoses with high contamination and particle levels, particularly from skiving.

### 5 Micron Filter, Regulator, Gauge

- Requires the Ultra Clean UC-QRC-C quick disconnect coupling and a 1/2" I.D. (13mm) air hose to ensure correct SCFM air requirements for the Control Station.
- Incoming air is filtered to 5 micron.
- Regulator and gauge adjustment helps ensure proper operating pressure of 80 to 110 PSI maximum (5-1/2 to 7-1/2 Bar).



### Containment Barrel Connector & Foot Switch

- 8-pin military-style plug secures the Containment Barrel cord to the Control Station.
- Electric Foot Switch provides hands-free operation to trigger the firing process.



### UC-BM1.25 Air Supply

- Air supply for the Bench Mount is located on the left side of the Control Station.
- UC-D1 Super-Dry Compressed Air Dryer strongly recommended.



### UC-HL-PVS Air Supply

- Air supply for the Hand Held Launcher is located on the right side of the Control Station.
- UC-D1 Super-Dry Compressed Air Dryer strongly recommended.



### 24 Volt DC Power Supply

- Power Supply converts 240V AC (Europe) or 110V AC to 24V DC.

