

**UC-PVS-III**  
*Ultra Clean Projectile Verification System,  
3<sup>rd</sup> Generation*  
(Alt. Part# UC-PVS-G3)

**Description:**

The Projectile Verification System ensures that no projectile is left in a hose, tube or pipe! The system is designed for various applications but is most beneficial in high-volume fabrication facilities where speed and efficiency are a priority. The system provides peace-of-mind that each line is cleaned according to specifications and that each projectile has successfully exited the assembly. Three cleaning modes allow specific cleaning for various levels of contamination.

The Projectile Verification System (PVS) is comprised of two units: the Control Station (p/n: **UC-CS**) and the Containment Barrel (p/n: **UC-CB**)<sup>1</sup>. These two units are used in conjunction with the Ultra Clean Bench Mount Launcher (p/n: **UC-BM1.25**) and/or the Ultra Clean PVS Launcher (p/n: **UC-HL-PVS**) to clean hoses, tubes, or pipe. The control station is the “brain” of the unit. It controls the air-flow and counts the projectiles & faults. The Containment Barrel is the receptacle. It has a banner sensor in the chute assembly that triggers the control station to turn off the air once the projectile has entered the barrel.



UC-CS Control Station



UC-CB Containment Barrel

**Air Requirements:**

- 80psi (5.5 Bar) minimum to 110psi (7.5 Bar) maximum.
- ½” ID air supply hose to ensure 55 SCFM (1.6m<sup>3</sup>/min) air flow.
- UC-D1 Super-Dry Compressed Air Dryer is strongly recommended.

The PVS system comes standard with a twin line air-hose, electronic foot-pedal, and ½” air supply line for optional Bench Mount Launcher.

<sup>1</sup> It is important to note that the PVS system is not a launcher. It must be used with either the Bench Mount or Hand-Held launcher(s).

UC-CS: Control Station:



Description:

The “brain” of the PVS system, the UC-CS Control Station controls the air flow, counts the projectiles, errors, and faults, and connects the accessories to the unit.

Features:

- Intuitive touchscreen allows for easy navigation and set-up in multiple languages.
- 5-micron filter, regulator and gauge ensures that clean air is used to avoid re-contamination.
- Optional remote monitoring; optional SCADA integration
- Air Supply hook-ups allow the UC-BM1.25 or the UC-HL-PVS to be connected to the unit.

Control Station Specifications:

Part Number	Color Code	Weight Lbs.	Weight Kg.	Net Dimensions (L x W x H) Inches	Net Dimensions (L x W x H) cm
UC-CS	Stainless Steel	20	9	18 x 18 x 11	46 x 46 x 28

Technical Data:

Voltage	Air Filter	Air Pressure	Air Pressure	Air Flow	Quick-Connects	Noise Emission	Mark of Conformity
AC/DC	Microns	PSI	Bar		½" Full-Flow QC		
24v DC <sup>2</sup>	5μ	80 to 110	5.5 to 7.5	½" Air Line	UC-QRC-C	N/A	CE

*This product is in conformity with standards of low voltage in accordance with the regulations 73/23/EEC, 89/336/EEC*

<sup>2</sup> Power Supply (provided) converts 240v AC (Europe) or 110v AC to 24v DC

UC-CB: Containment Barrel



Description:

The containment barrel verifies that the projectile and contamination have been expelled from the hose or tube being cleaned.

Features:

- Indicator lights signify at which stage the system is operating.
- 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.
- Includes an 8-pin electrical cord to connect containment barrel to the control station

Containment Barrel Specifications:

Part Number	Color Code	Weight		Dimensions	
		Lbs.	Kg.	(L x W x H) Nominal Inch	(L x W x H) Metric
UC-CB	Black	34	16	19" x 19" x 41.5"	49 x 49 x 106cm

Features:

- Projectile Counting
- Fault Counting
- 5-micron ( $\mu$ ) Filter
- Regulator & Gauge
- 24-volt DC Power Supply
- Bench Mount Connection
- HL-PVS Connection
- Color Touchscreen
- Flexible Sequence Options
- Data Logging
- Optional SCADA integration
- Operator ID Logging
- Onscreen Indicator Lights
- Optional Ethernet Cable Connection
- 5.7" Human-Machine-Interface (HMI) Screen
- 7-year battery back-up for HMI Touchscreen
- 3 Cleaning Modes for various contamination levels.

Suggested Accessories:

**UC-BM1.25 Bench Mount Launcher**

Cleaning Capability: Up to 1¼" Applications



**UC-HL-PVS Hand-Held Launcher**

Cleaning Capability: Up to 2" Applications

