CleanBlast™

Fiber Optic Connector Cleaning System

Patent Pending

User Guide

For Bench-Top and Portable Cleaning Systems

westover SCIENTIFIC™

Important

Certification Information

F.C.C. Information
Electronic test equipment is exempt from Part 15 compliance (FCC) in the United States.

$C \in$ Information

Electronic test equipment is subject to the EMC Directive in the European Union. The EN61326 standard prescribes both emission and immunity requirements for laboratory, measurement, and control equipment. This unit has been tested and
found to comply with the limits for a Class A digital device.

Independent Laboratory Testing
This unit has undergone extensive testing according to the European Union Directive and Standards. All pre-qualification tests were performed internally, at WSI, while all final tests were performed externally, at an independent, accredited
laboratory. This guarantees the unerring objectivity and authoritative compliance of all test results.

Information provided by WSI is believed to be accurate and reliable. However, no responsibility is assumed by WSI for its use.

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Words that WSI considers trademarks have been identified as such. However, neither the presence nor absence of such identification affects the legal status of any trademark.
Units of measurement in this document conform to SI standards and practices.

Safety Conventions

You should understand the following conventions before using the product described in this manual:

WARNING
Refers to a potential *personal* hazard. It requires a procedure which, if not correctly followed, may result in bodily harm or injury. Do not proceed unless you understand and meet the required conditions.

CAUTION
Refers to a potential *product* hazard. It requires a procedure which, if not correctly followed, may result in component damage. Do not proceed unless you understand and meet the required conditions.

IMPORTANT
Refers to any information regarding the operation of the product which you should not overlook.
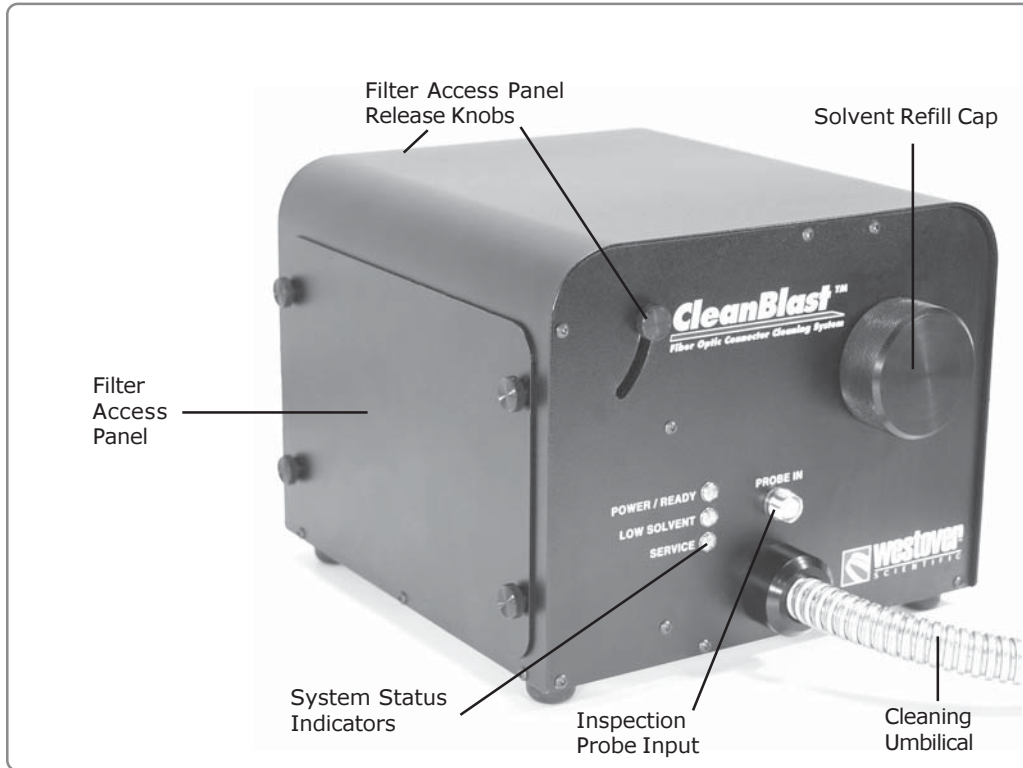
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Introduction

Thank you for purchasing our products. Before assembly and use, make certain that all of the parts you have ordered are present. Check the packaging carefully as some parts are small and can be overlooked. Also, locate any additional parts and accessories you may have purchased. If you are missing any parts, or you are unable to complete the installation of your products, contact Customer Support at (800) 304-3202 or (425) 398-1298.

Bench-Top System Overview (Front View)

Controls and Functions

Filter Access Panel
Release Knobs

Solvent Refill Cap

Filter
Access
Panel

System Status
Indicators

Inspection
Probe Input

Cleaning
Umbilical

Solvent Refill Cap
Remove to access
solvent refill system

Cleaning Umbilical
Hose system wich
contains the air, solvent
and vacuum lines.

Inspection Probe Input
4 or 6 pin connector
used to connect a
Westover Scientific
Video Inspection Probe

**System Status
Indicators (3)**
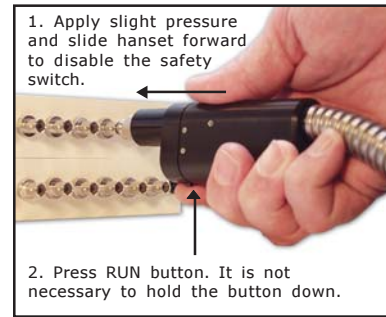LED's which indicate the
system's operating
status

Filter Access Panel
Removable panel to
access air filters when
replacement is
necessary

**Filter Access Panel
Release Knobs (2)**
Used to tilt the air filter
system for easier
access (see page xx)

Bench-Top System Overview (con't)

System Status Indicators

Power/Ready - This dual LED indicator will alert the user when there is AC power connected to the system (RED LED), and it will indicate when the nozzle safety switch is released allowing the cleaning cycle to be activated (GREEN LED). The RUN button on the handset (figure xx) WILL NOT operate when this LED is RED. To disable the safety switch, apply slight pressure against the bulkhead mating sleeve and gently slide the handset forward. Notice the POWER/READY LED turn green. Press the RUN button on the handset.

1. Apply slight pressure and slide hanset forward to disable the safety switch.

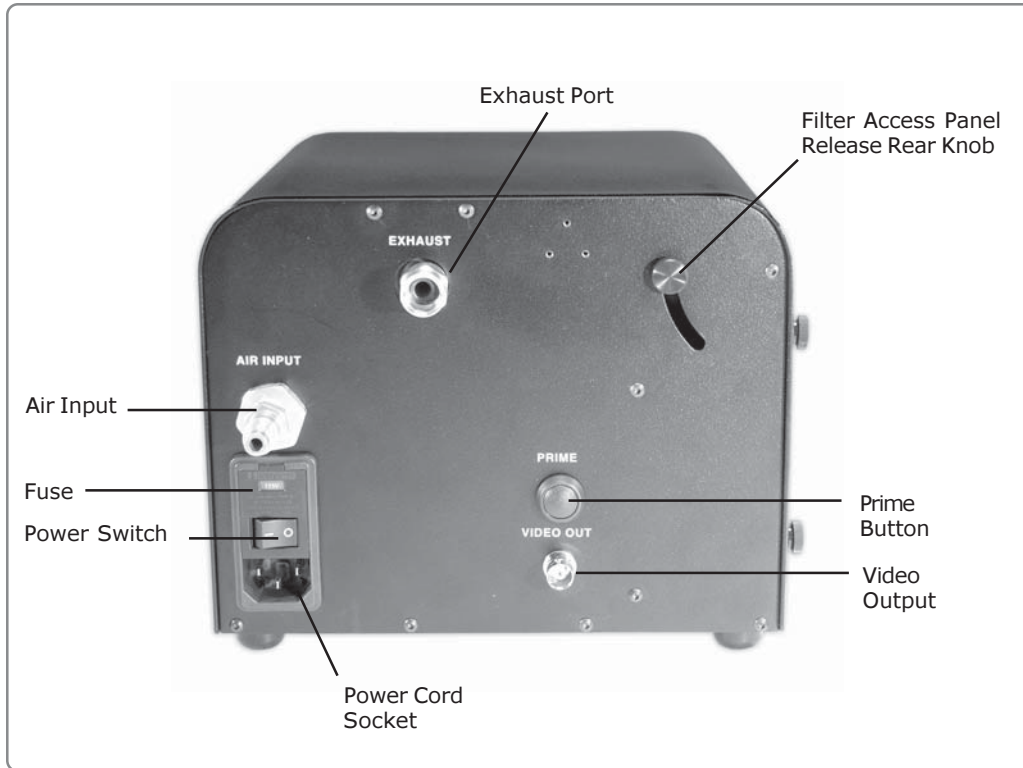2. Press RUN button. It is not necessary to hold the button down.

Low Solvent -
When lit, indicates the solvent level is too low to operate and the system is in stand-by mode. The solvent resevoir must be refilled before operation can be continued. The solvent resevoir contains 225 ml. of solvent - approximately 8,000 cleaning cycles.

Service -
When lit, indicates the system filters need to be replaced. The reset button is pushed to reset the system cycle counter to zero. System will count 10,000 cleaning cycles before filter change is necessary and indicated.

Bench-Top System Overview (Rear View)

Controls & Functions

Exhaust Port

Filter Access Panel Release Rear Knob

EXHAUST

AIR INPUT

PRIME

VIDEO OUT

Air Input

Fuse

Power Switch

Prime Button

Video Output

Power Cord Socket

Exhaust Port
Used to attach external, optional filter

Filter Access Panel Release Knobs
Used to tilt the air filter system for easier access (see page xx)

Prime Button
Used for trouble-shooting the system. Not for routine use.

Video Output
BNC connection to output video signal from Inspection Probe

Power Cord Socket
For detachable power cord

Power Switch
System On/Off control

Fuse
Type xxxx fuse

Air Input
1/4" Male Industrial Quick Connect for external air suppply.

Bench-Top System Overview (Side View)

Filter System

Filter Access Panel Release Knobs
Used to tilt the air filter system for easier access (see page xx)

Fine Filter
Used to filter air supply

Holes for optional drain attachments
Access holes to attach external drains to filter water trap

Coarse Filter
Used to filter air supply

If the "Service" LED indicator is lit, the two air filters should be replaced. This condition occurs after 10,000 cleaning cycles.

See "Maintenance" (page xx) for filter change procedure.

To access filter assembly:

1. Power the unit off.
2. Remove the air supply hose.
3. Remove the side panel
4. Loosen the two release knobs and slide the knobs down to tilt the assembly outward from the chassis.
5. Unscrew the water trap bowls and replace each filter inside the bowls. (See page xx)

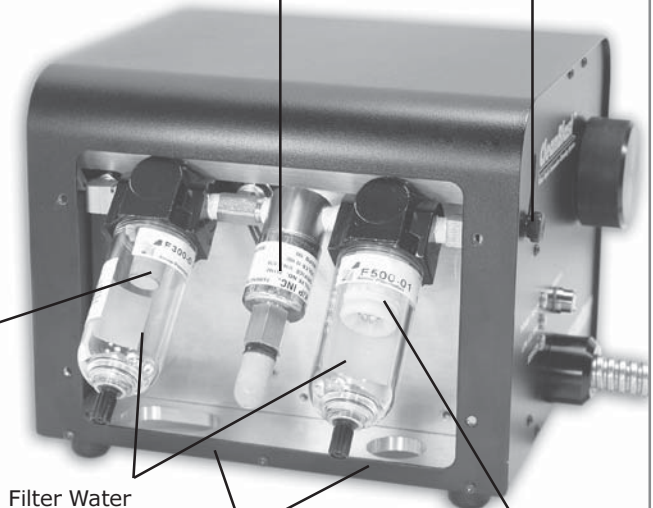NOTE: Periodically open the side panel and check for condensation inside the water traps. Open the traps by loosening the drain knobs on the bottom of the traps.

Solenoid
(non-user serviceable)

Filter Access Panel
Release Rear Knob

Coarse Filter
(5.0 um)

Filter Water
Traps

Holes for
optional drain
attachment

Fine Filter
(0.01 um)

Bench-Top System Assembly

**Step 1
Attach the power cord.**

**Step 2
Attach an external air supply**
The system requires a minimum of 60 psi of clean air and a maximum of 250 psi.

Male 1/4"
Industrial
Quick
Connect

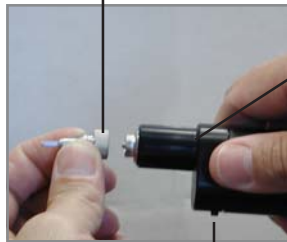System requires a Female 1/4" Industrial Quick Connect

**Step 3
Attach cleaning tip to hanset**
A variety of tips are available. See page xx.
The cleaning tips thread onto the handset.

SAFETY SWITCH
TRY IT: Hold the handset securely in one hand and push the tip into the handset. Notice the spring release tension. This is the safety feature which prevents the system from accidentally discharging. The Tip must be retracted into the handset and the Run button depressed before initiating a cleaning cycle.

Cleaning tip
(Universal 2.5 mm Bulkhead)

Handset with spring loaded safety release

Run Button

Bench-Top System Quick Start

Step 1
Complete the assembly instructions
(see page xx)

Step 2
Turn the power switch to the ON position. (-)

Step 3

Prime the nozzle
If you are using the system for the first time, or it
has been OFF for greater than 4 hrs, you may need to prime the handset.

**Always point the handset away from you when
operating.**

Using a Universal 2.5mm Tip, hold the handset
securely in one hand and push the tip into the hand-
set. Notice the POWER/READY LED turns green. Press
the RUN button on the handset 2-3 times. Note: If
you are using another tip with a smaller diameter
nozzle, i.e. LC, it may be necessary to prime up to 5
times.

Step 4

For bulkhead applications: Plug the cleaning tip into the bulkhead mating sleeve as
you would an using a Westover Scientific Video Inspection Probe. Apply slight pressure
against the mating sleeve and gently slide and hold the handset forward. Notice the
POWER/READY LED turns green. Press the RUN button on the handset.

Bench-Top System Operation

Attaching and using a Video Inspection Probe

Attach the Probe to the CleanBlast system

A Westover Scientific Video Inspection Probe can be used with the CleanBlast system. The video signal from the probe is routed through the system and out the Video Out connector on the rear panel of the system. It is here that a NTSC video monitor can be connected to the system and used to view connectors which are being inspected.

Step 1
Attach a Video Insection Probe to the "Probe In" connector on the front panel of the system. (See page 6)

Step 2
Attach a BNC cable from the video monitor to the CleanBlast "Video Out" connector on the rear panel of the system. (See page 8)

Step 3
Assure that the CleanBlast system is ON and the video monitor is on and set to the correct channel input if necessary.
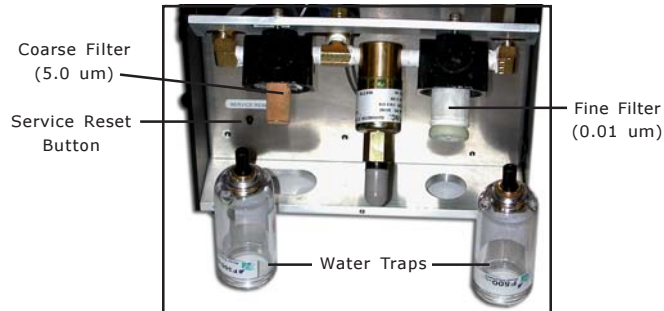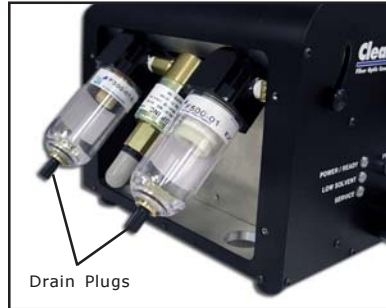
Bench-Top System Maintenance

Replacing the disposable air filters

If the "Service" LED indicator is lit, the two air filters should be replaced. This condition occurs after 10,000 cleaning cycles.

To replace the filters:

1. Power the unit off.
2. Remove the air supply hose.
3. Remove the side panel.
4. Loosen the two release knobs and slide the knobs down to tilt the assembly outward from the chassis.
5. Loosen the drain plugs on the water trap bowls.

Drain Plugs

6. Unscrew and remove the water trap bowls.

7. Press the Service Reset Button. This will start the auto-counter to zero. Replacement of the filters is not required again, until 100,000 cleaning cycles are reached.

Coarse Filter (5.0 um)

Service Reset Button

Fine Filter (0.01 um)

Water Traps

Bench-Top System Maintenance

Replacing the disposable air filters (con't.)

8. Unscrew and remove the coarse filter and replace with part number FCLT-FIL-P1

9. Unscrew and remove the fine filter and replace with part number FCLT-FIL-F1

10. Replace filters, water trap bowls and side panel.

Water Traps

Coarse Filter
(5.0 um)
Part #
FCLP-FIL-P1

Fine Filter
(0.01 um)
PART #
FCLP-FIL-F1