



Installation & Operation Instructions

DRAWMASTER

By IMTEC



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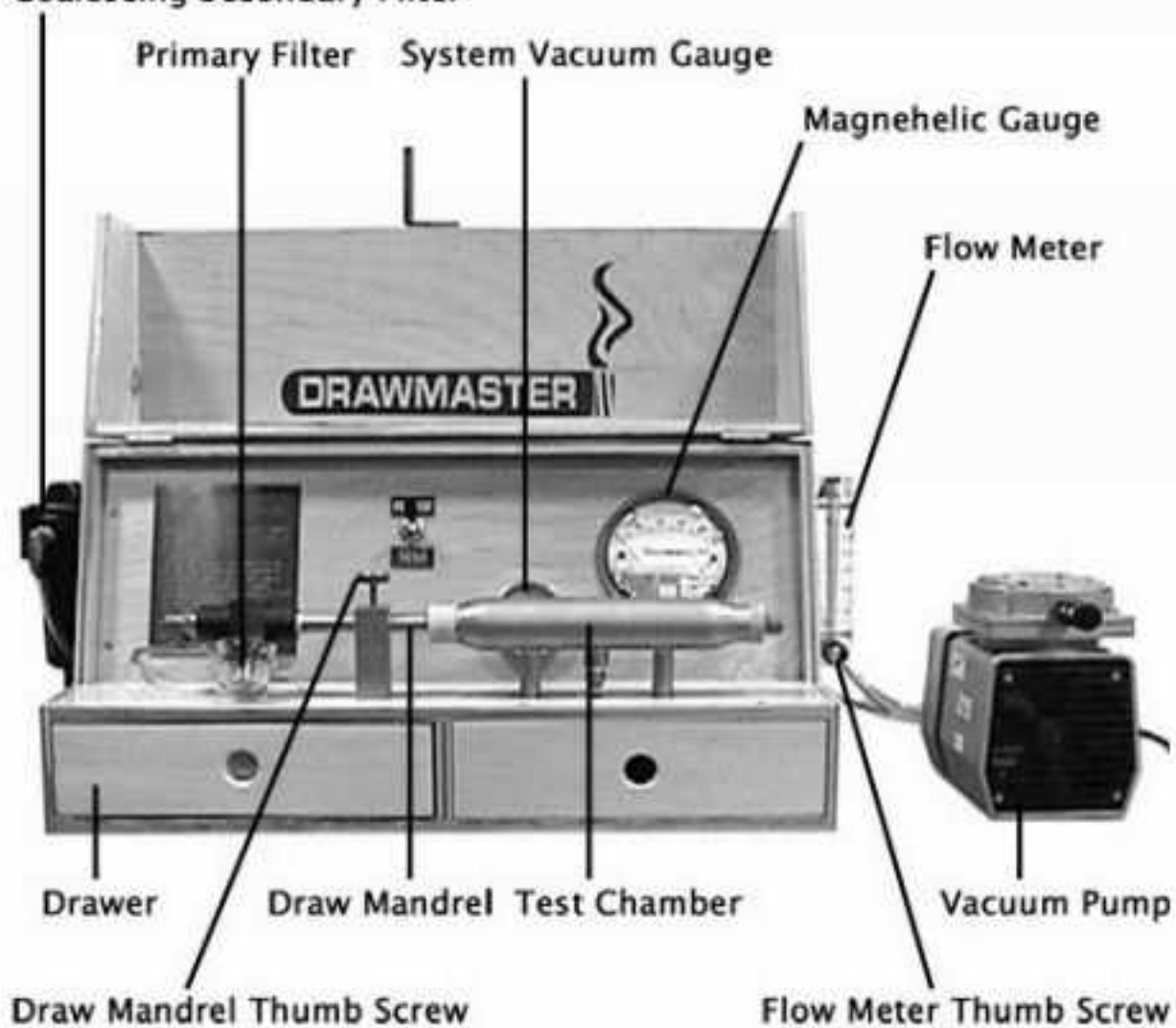
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Features of the DrawMaster by IMTEC

Coalescing Secondary Filter



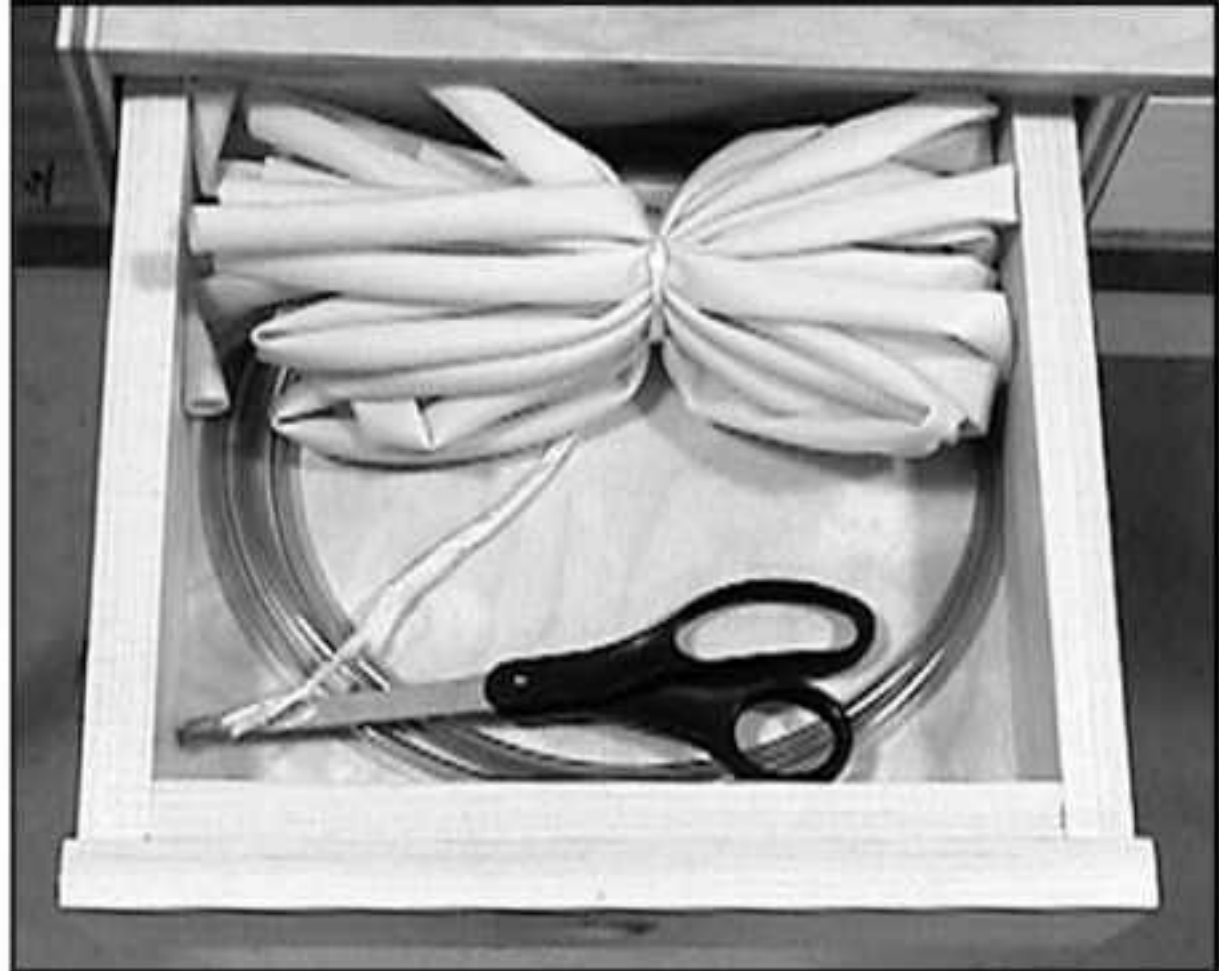
- **DRAWER**
contains 12 count box of 36" hygienic latex tubes (approx. 48 uses)
- **DRAW MANDREL**
adjusts to gauge the length of cigar in draw chamber
- **FLOW METER**
calibrates the system
- **MAGNEHELIC GAUGE**
accurately measures optimal draw
- **PRIMARY AND SECONDARY FILTERS**
easy to clean filters keep tobacco particles out of vacuum pump
- **DOUBLE STAINLESS STEEL TEST CHAMBER**
precisely tests draw
- **VACUUM PUMP**
system vacuum source

General Information

Features:	Double Stainless Steel Chamber Brass Ring Gauges (optional) Ideal Length Tester (optional) Foot Valve Switch (optional)
Weight:	40 lbs. Portable unit
Dimensions:	12" x 12" x 24" Custom maple case
Components:	Commercial components in a durable self-contained unit
Electricity:	110 volts operation – 60 cycle *(50 cycle box available)
Optional:	Carrying case available
Warranty:	One year guarantee on components

Caution: This machine is designed to operate on 110–volts at 60 HZ. Operation at a lower voltage will cause the vacuum pump motor to overheat. If this occurs, the machine will stop. A cooling down period of approximately one hour is required before the pump will start. Continuous overheating due to low voltage will damage the motor and negate the warranty.

*If low voltage is a problem, IMTEC can provide you with a low voltage protection system for your Drawmaster. Contact factory for pricing.

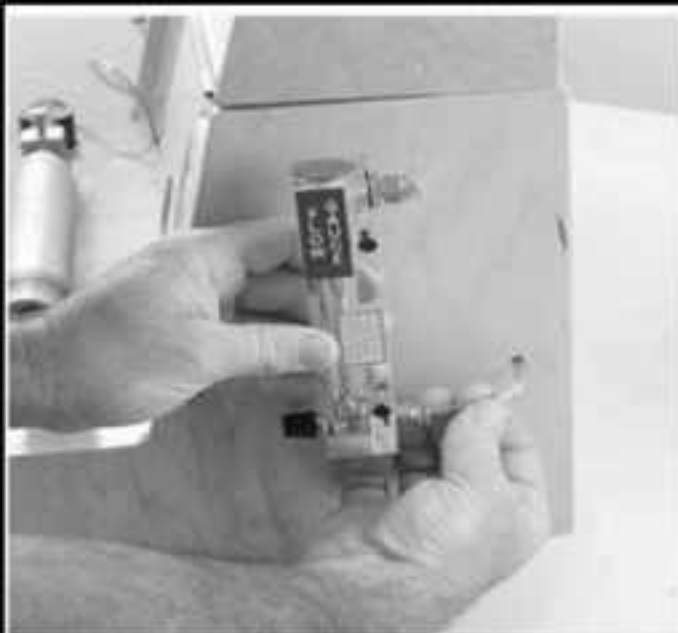


Setup Procedure

1. Open the left drawer.

Note: The right drawer does not open.
It is for service only.

2. The parts in the drawer are:
 - 1 pair of scissors
 - 1 #40 Standard
 - 12 latex tubes 36 inches long

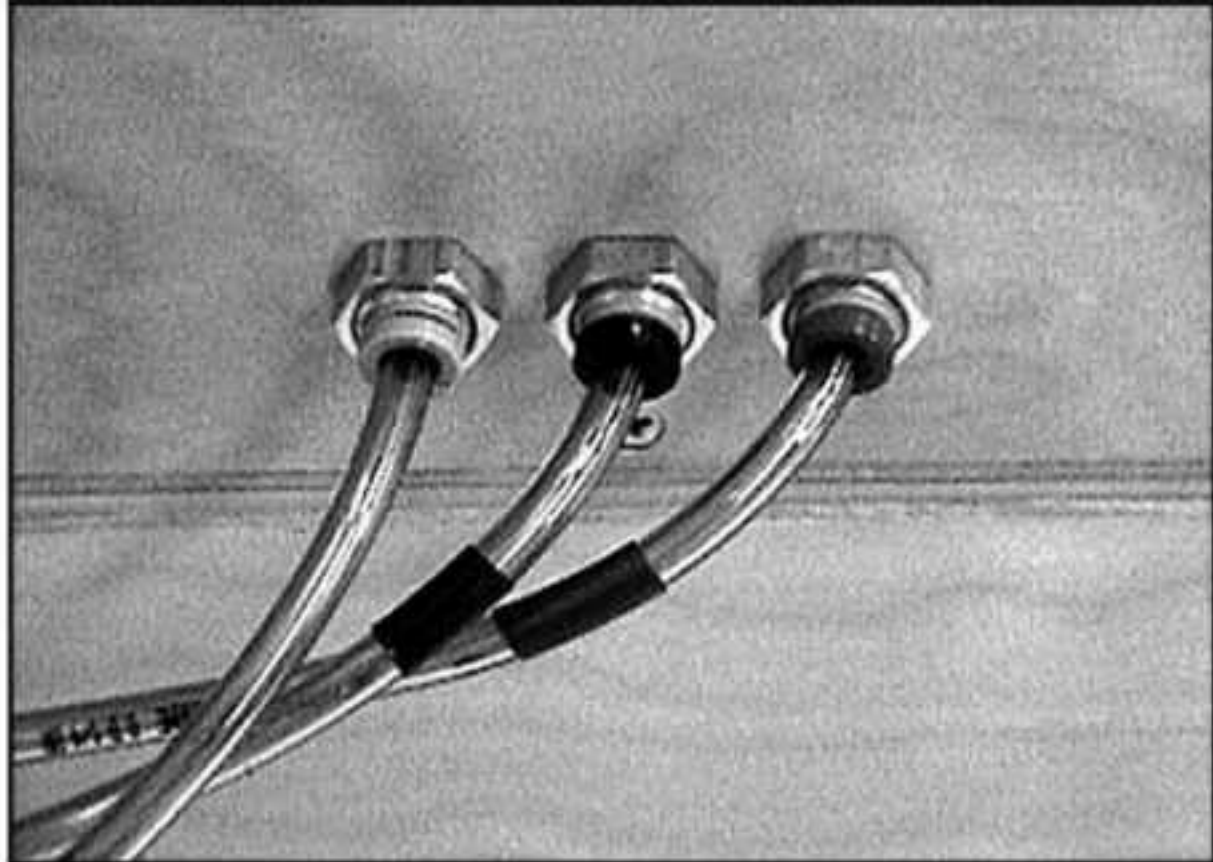


Connecting the Pump

1. Attach FlowMeter using the two screws provided
2. Connect hose from cabinet to lower fitting on FlowMeter
3. Connect tubing to pump and to the top fitting of the FlowMeter
4. Plug the power cord from the pump into 110-volt receptacle

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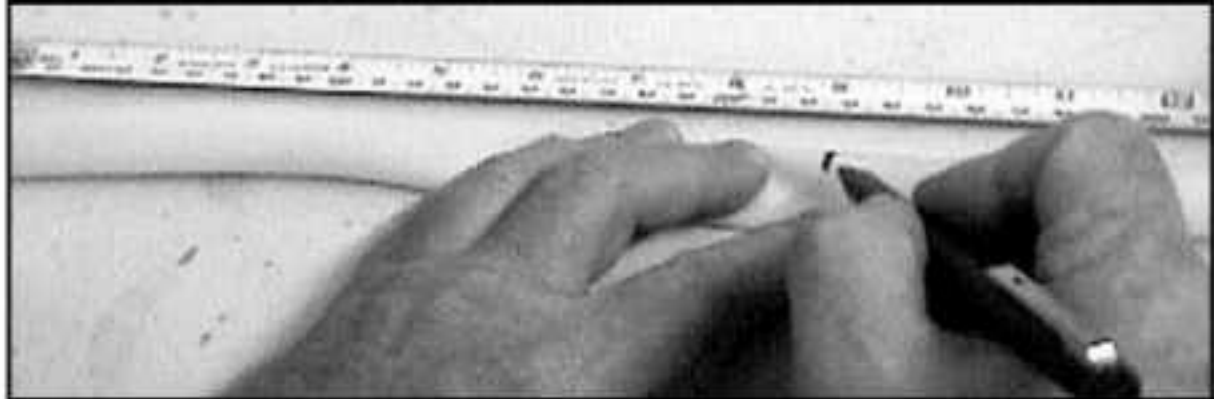
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The foot valve hosing receptacles on the back of the Drawmaster.

Note: From this point on the directions will relate to the Foot Valve Model. Thumb Valve Models will operate the same.

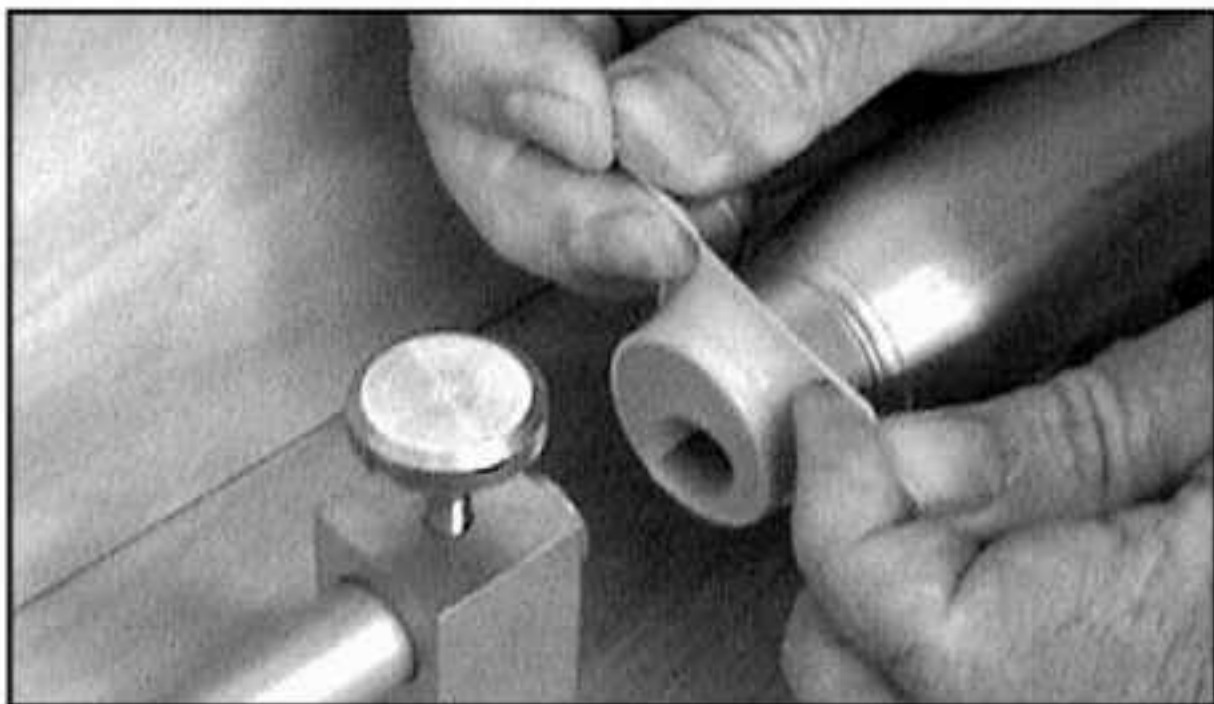
1. Install vinyl tubing in receptacles located on the back of the Drawmaster.
2. The ports on the back of machine are labeled to match colored bands. Make sure to connect to proper port.



Marking the tube at 9 inches.

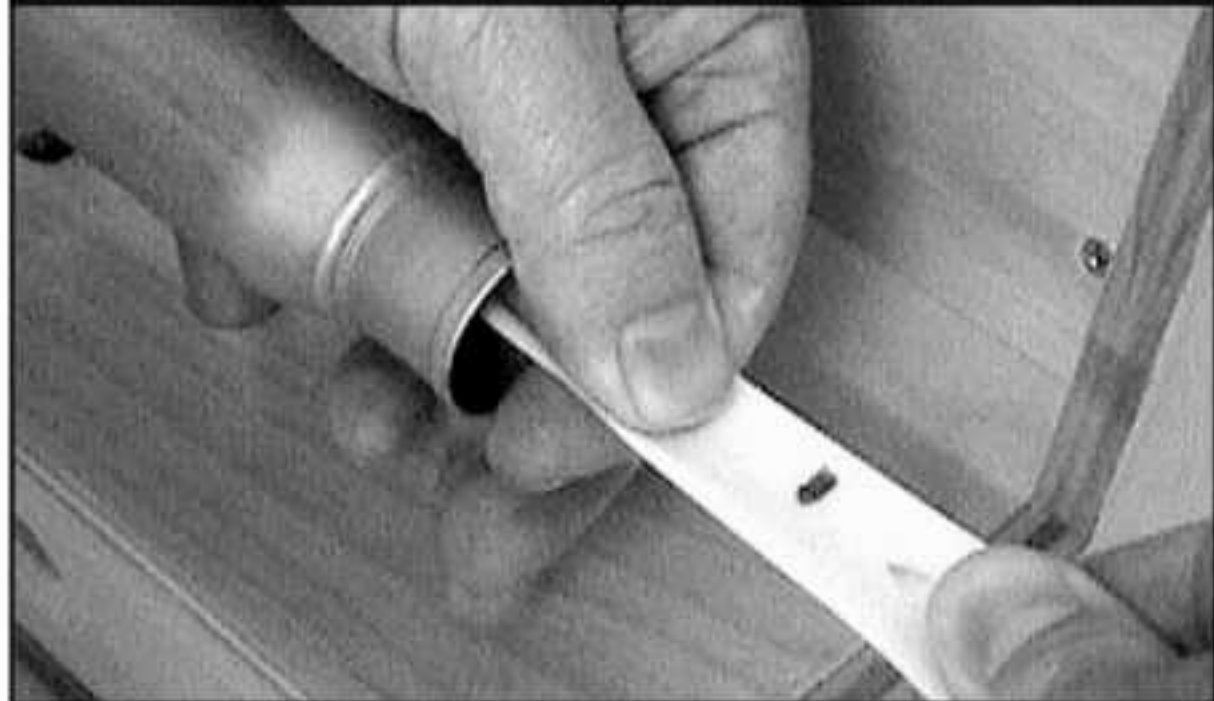
Measuring Latex Tubing

1. Measure and mark latex tube at 9 inches.
2. DO NOT CUT latex tube before installing into the Test Chamber.
3. Install latex tube in Test Chamber after marking.



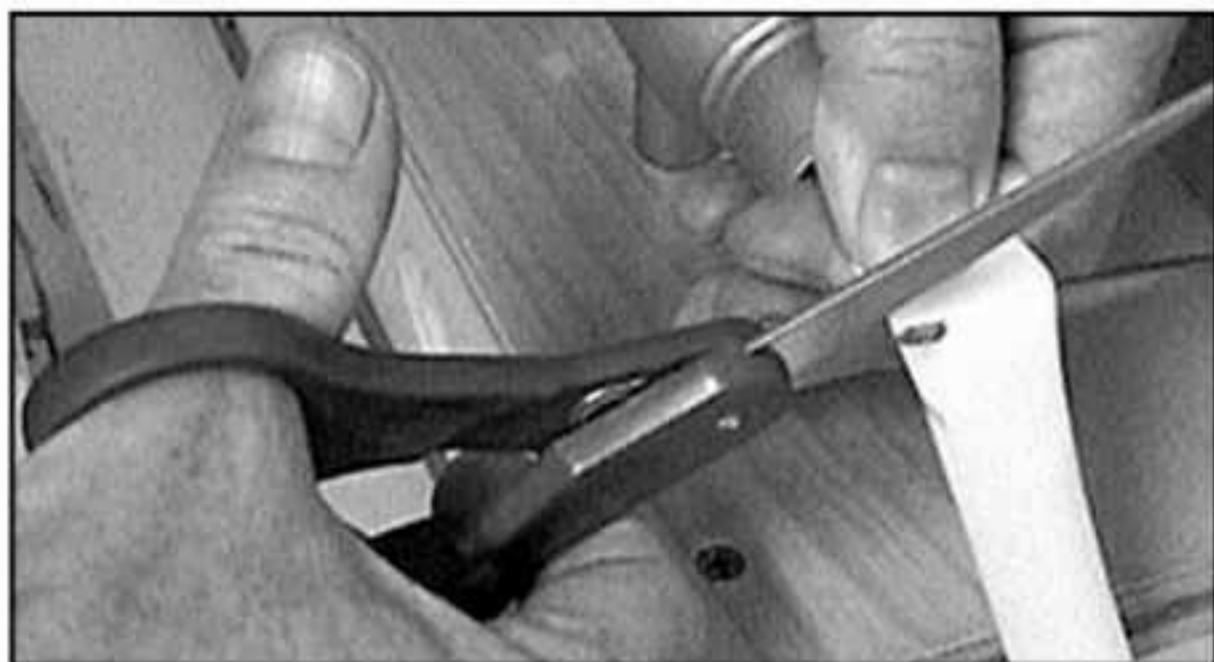
Stretching the latex.

1. Stretch latex over Mandrel side of Test Chamber.



Inserting the latex through the Test Chamber.

1. Stretch latex through the tube until the mark is exposed.
2. Hold latex with your left hand and cut at 9 inch mark.



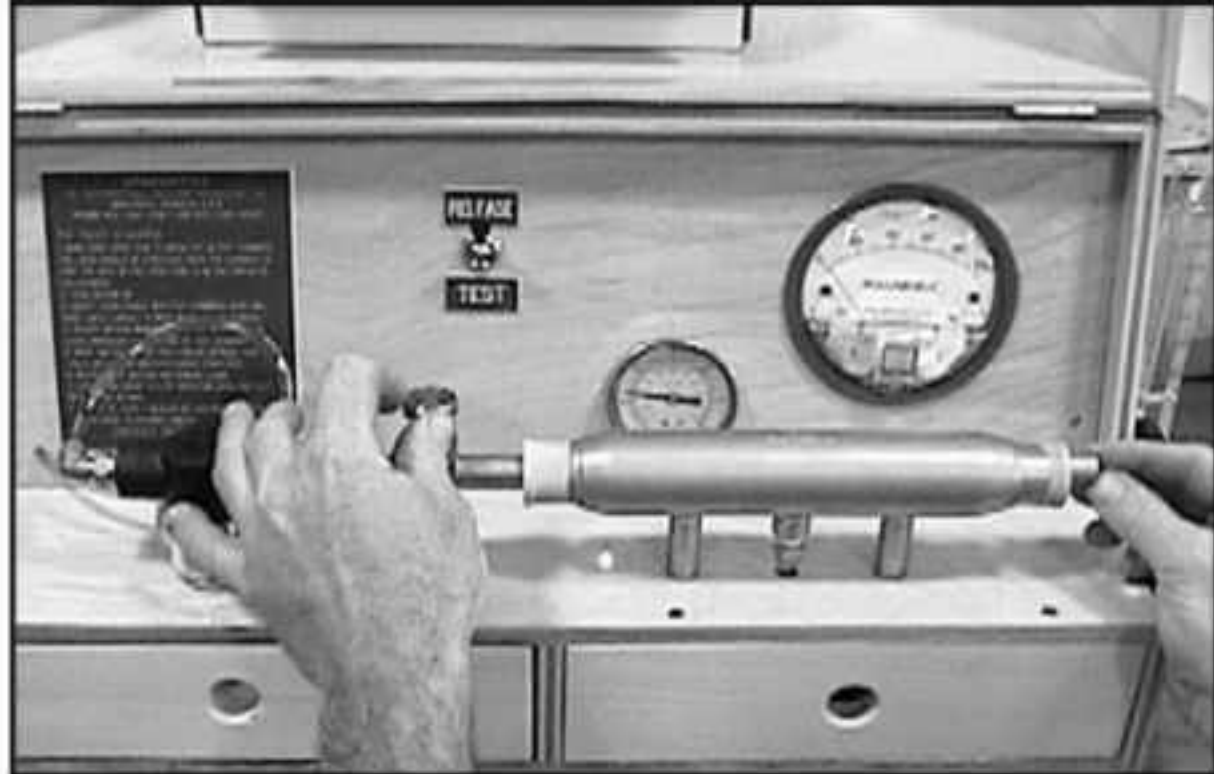
Cutting latex.

1. Cut latex tubing at the mark with scissors.



Stretching latex tube over end of Test Chamber.

1. Pull latex tube through Test Chamber and roll excess over tube end.
2. Make sure to keep the hole in the middle of the tube centered when installing latex.



Insert the Standard into the Test Chamber.

Calibrating the Drawmaster

1. Turn on the machine.
2. Insert the #40 Standard into the Test Chamber, leaving approximately 1/2 inch protruding from the end of the tube.

Note: The Draw Standard must seat against the Draw Mandrel.

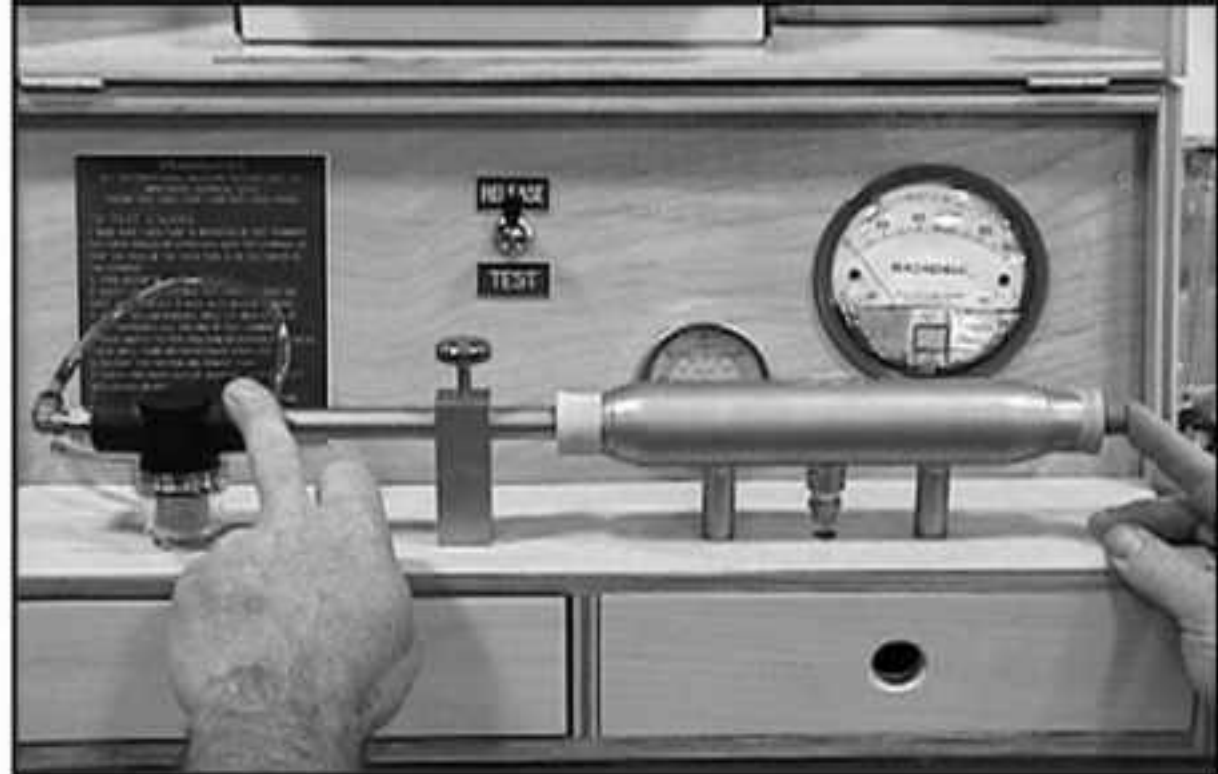
3. Depress the Foot Valve or move the Thumb Switch to test position.
4. Magnehelic Gauge should read 40 (more or less 5%).



Adjust the knob at the bottom of the Flow Meter.

5. IF NOT, bring the machine into proper calibration by adjusting the small black knob at the bottom of the Flow Meter until the gauge reads 40.
6. Release the Foot Valve or move switch from test position and remove standard.

Note: To insure uniform draw test, calibration should be checked regularly, depending on conditions. At a minimum, IMTEC recommends checking the calibration after every 1,500 draw tests.



Insert cigar and leave 1/2 inch protruding from Test Chamber.

Testing Cigars

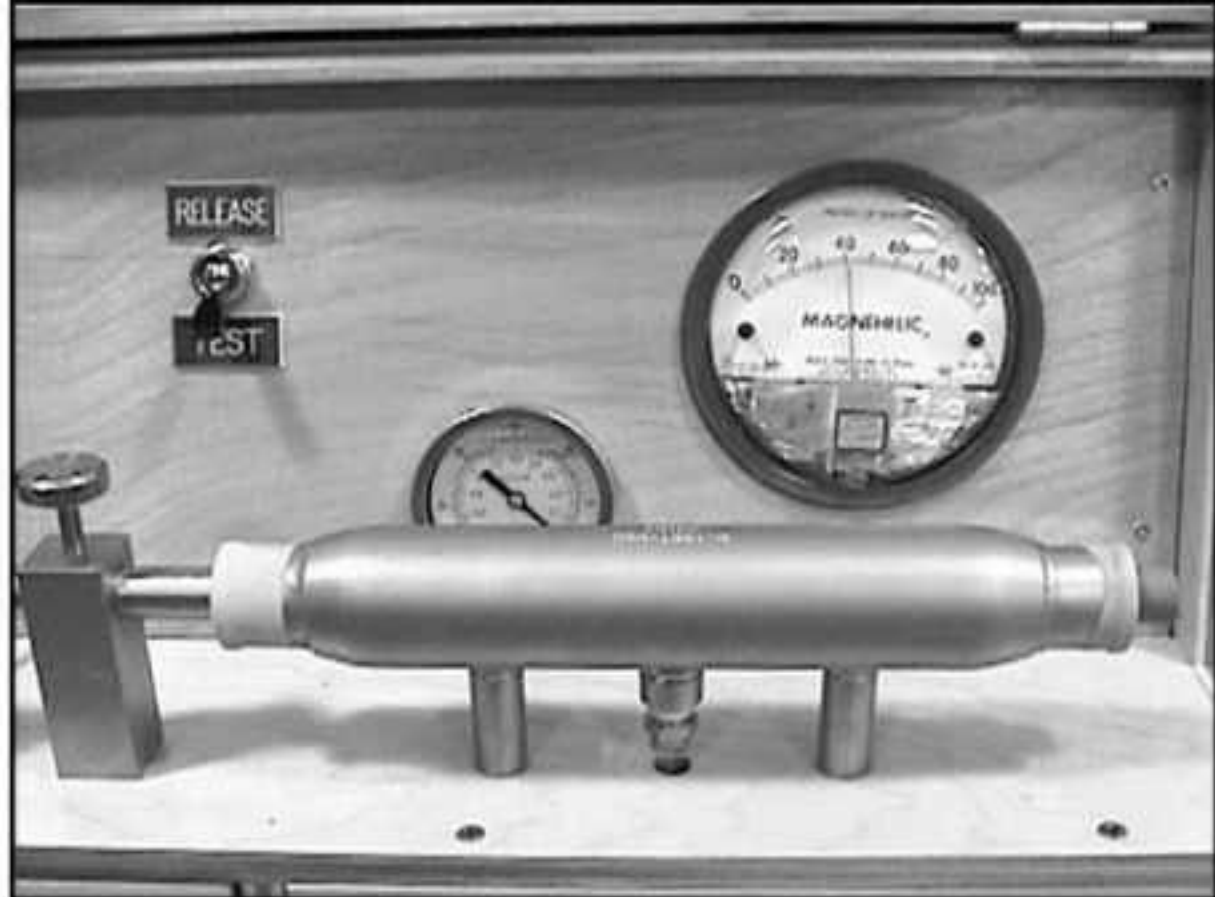
1. Loosen Mandrel Thumb Screw. Insert bunch, head end first, until it makes contact with the Draw Mandrel with 1/2 inch protruding from the chamber. Tighten the screw. This insures proper cigar to mandrel contact.

Note: Finished cigar may be tested before cap is applied or is cap is removed.

2. Depress Foot Valve or move switch to test position.

Notice the Magnehelic reading. This is your Drawmaster number. We consider a reading of 40 the best draw. Each customer should determine through their own test what is acceptable and what is not.

3. Release the Foot Valve or move switch from test position. Remove cigar.



Magnehelic Gauge.

Accurately measure optimal draw.



20-30 Light
30-40 Medium
40-60 Heavy

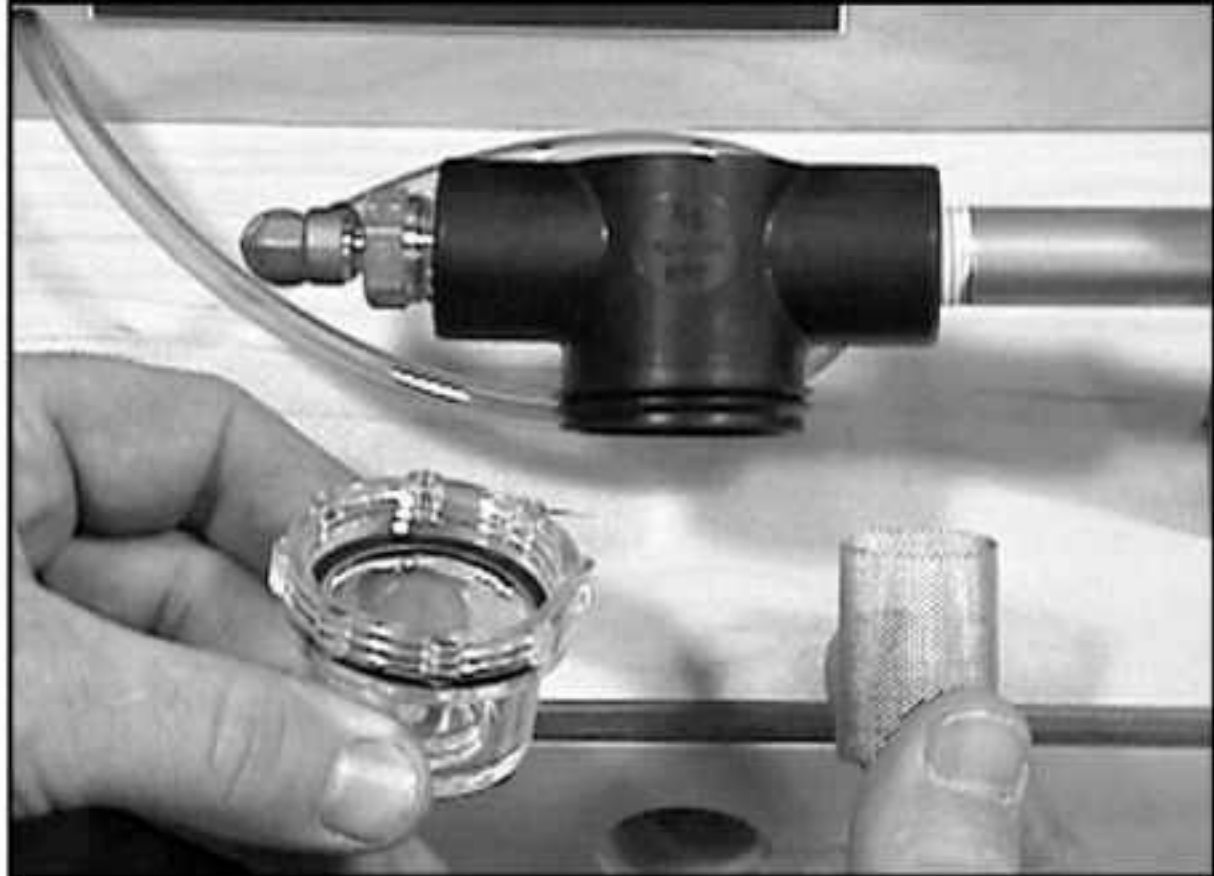


Primary Filter.

Removing and Cleaning Primary Filter

1. Remove filter by turning counter clockwise. Remove filter screen.
2. Clean particles from filter housing and screen with compressed air.
3. Reverse procedure to install filter.
4. Frequency of cleaning is based on visual inspection or daily maintenance.

Note: Dirty filter will cause an incorrect gauge reading. Infrequent or improper filter maintenance will lead to system contamination and eventual system failure.



Primary Filter.

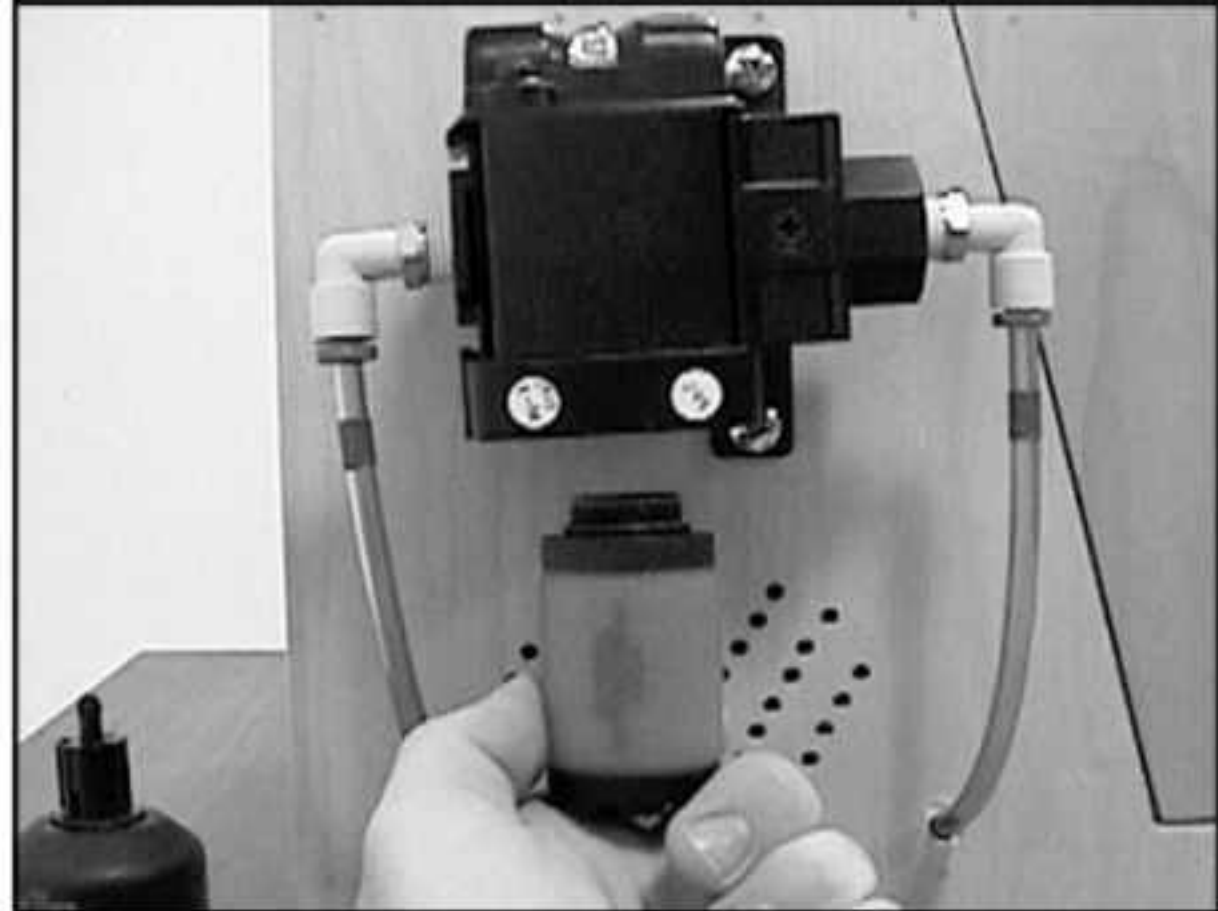
5. To reinstall filter and filter cover, reverse #1 procedure.



Secondary Filter.

Removing Filter

1. Remove filter cover by pressing upward and rotating counter clockwise.
2. After rotating counter clockwise, pull downward gently. This will free the cover from the filter housing.



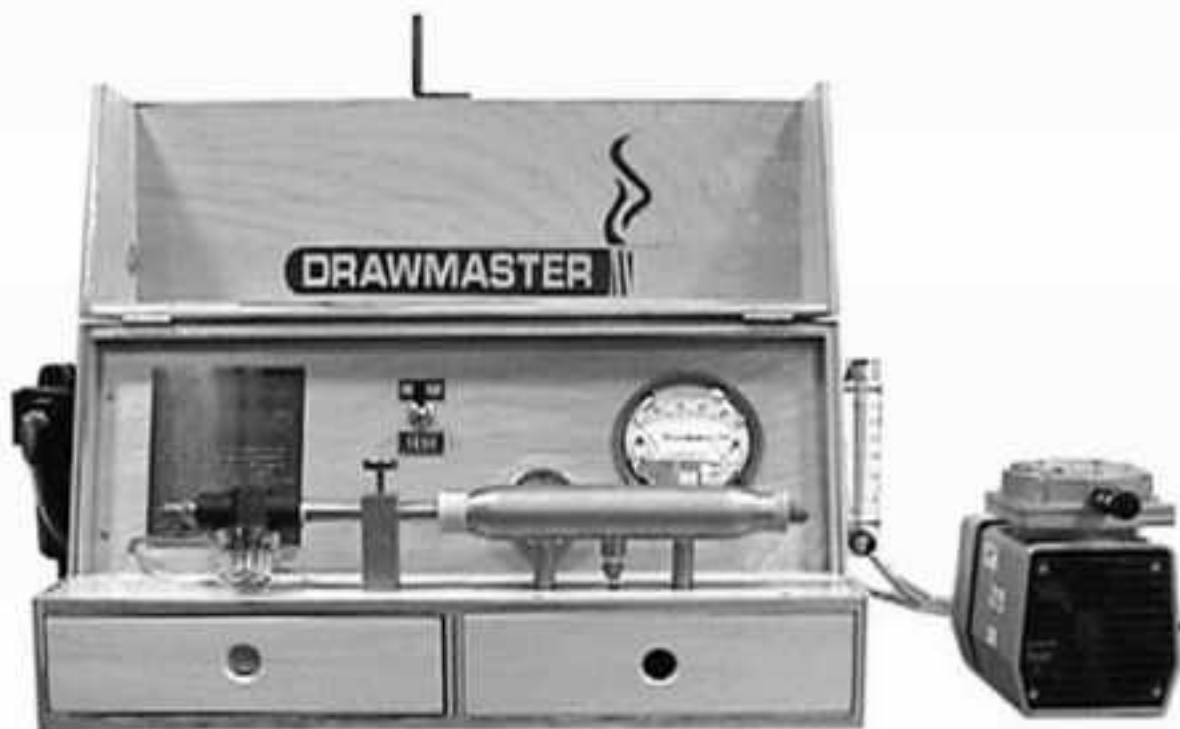
Secondary Filter.

Cleaning or Replacing Filter

1. After removing filter cover, remove dirty filter by rotating it counter clock wise.
2. Replace or clean filter every 10,000 cigars.

Note: Dirty filter will cause an incorrect gauge reading.

Filter must be cleaned with compressed air ONLY. (Do not wash filter.) Replace filter after testing 100,000 cigars.



Daily Maintenance Checklist

1. Clean Primary Filter.
2. Clean Secondary Filter.
3. Inspect latex for tears or pin holes.
4. Purge system:
 - Insert #40 Standard.
 - Turn system on by depressing Foot Valve or turning Switch to test position.
 - Turn knob on Flow Meter to maximum flow.
 - Hold for 30 seconds.
 - Recalibrate to 40 on Magnehelic Gauge.