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TBS
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Histology Innovation for a NEW Generation

Pub No.: OM Sloped Front FH
June 2013, Version 1.3
SC-36S-X OR -F
SC-36S-WOME-TV or -RV
SC-48S-WOME-TV or -RV

Operator's Manual

SHURClean™

Sloped Front Fume Hoods

Catalog #s
SC-36S-X, SC-36S-F
SC-36S-WOME-TV, SC-36S-WOME-RV
SC-48S-WOME-TV, SC-48S-WOME-RV

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1.0 INTRODUCTION

Thank you for selecting TBS' SHUR**Clean**™ Slope Front Fume Hood. This instrument was carefully designed to be easy to use, safe to operate and capable of producing consistent, high quality results.

This operation manual introduces the instrument's components, key features and proper use. Please read this operation manual carefully before utilizing the fume hood.

The employees of TBS thank you for your support. Feel free to call TBS customer service at 919-384-9393 or e-mail us for support at productservice@trianglebiomedical.com.

1.1 Contact Information

1.1.1 TBS Corporate Headquarters

Phone: 919-384-9393

Fax: 919-384-9595

E-mail: TBS@trianglebiomedical.com

Web: http://www.trianglebiomedical.com

1.1.2 Product Service Department

Phone: 919-384-9393

E-mail: productservice@trianglebiomedical.com

2.0 UNPACKING

Be certain to inspect the shipping container carefully for any signs of damage to the outer carton. In the event of apparent mishandling, note the damage accordingly on the bill of lading and take pictures for future reference. Save the shipping carton and all packing material for proof of noted damage and / or for future shipment of the instrument back to the manufacturer for any future service needs. Failure to document external damage to the carton may limit your ability to obtain compensation from the carrier for damage. Remove the equipment from the shipping carton carefully. Notify the carrier immediately if there is any visible damage to the contents.

2.1 Contents

Description	Qty	Illustration
Operator's Manual	1	
Active Updraft Blower Housing	1	
Slope Front Fume Hood	1	

Filter	2	
Pre Filter	2	
Power Cord	1	
PARA/*Gard*™	1	

2.2 Serial Number

2.2.1 Location

2.2.2 Serial Number Label

2.2.2.1 120V Version Serial Number

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www.trianglebiomedical.com

Cat #: SC-DD, **SHUR**/*Clean*™ Downdraft Fume Hood

Serial #: _____

Power Requirements: 100-120V, 1.2A, 50/60 Hz

2.2.2.2 220V version Serial Number

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Cat #: SC-36S, **SHUR**/*Clean*™ Sloped Front Fume Hood

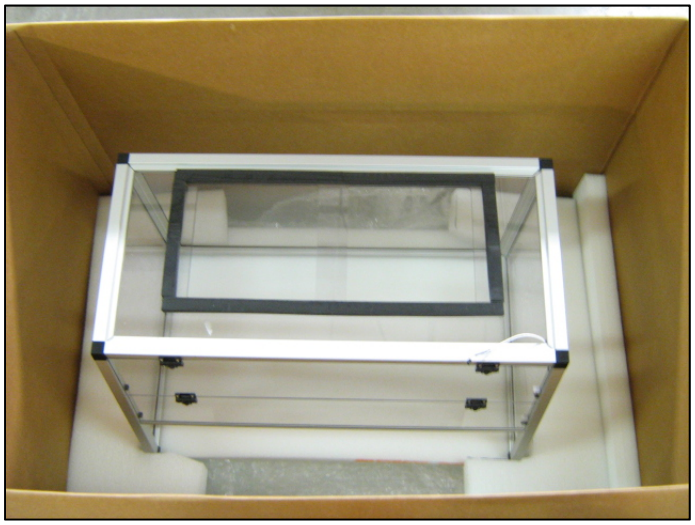
Serial #: _____

Power Requirements: 220-240V, 0.7A, 50/60 Hz

3.0 SETUP and INSTALLATION

3.1 Step 1

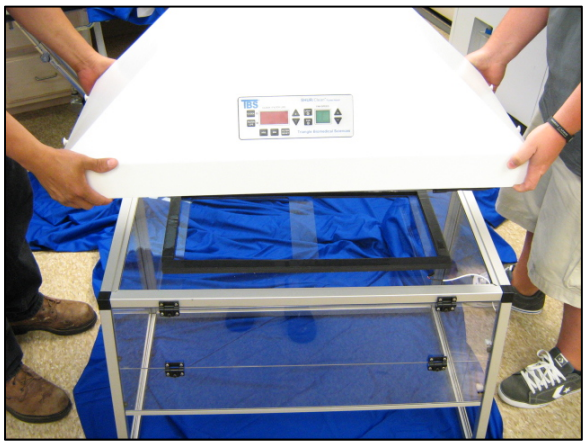
3.1.1 Remove Sloped Front Fume Hood From Packaging



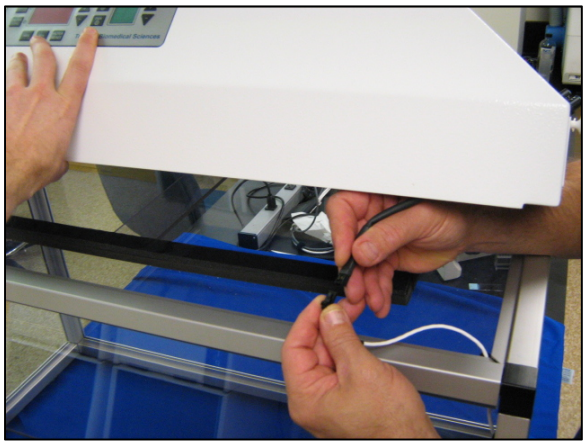
3.1.2 Remove Active Updraft Blower Housing From Packaging

3.2 Step 2

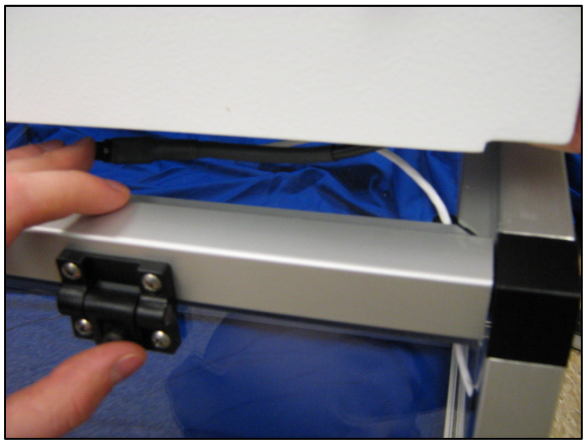
3.2.1 Place Active Updraft Fume Hood on top of Slope Front Fume Hood.



3.2.2 Connect Sensor Wire



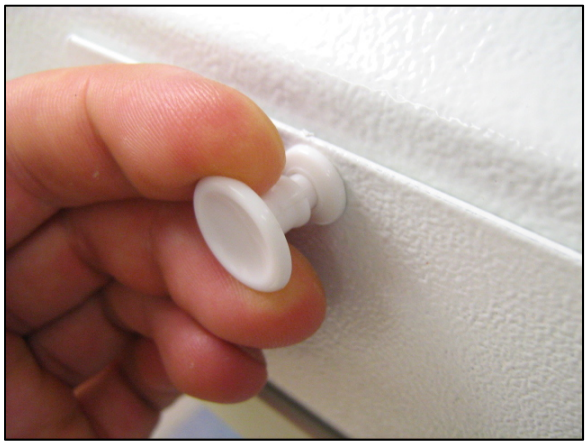
3.2.3 Do not pinch sensor wire when lowering Active Updraft Fume Hood on top of Slop Front Fume Hood.



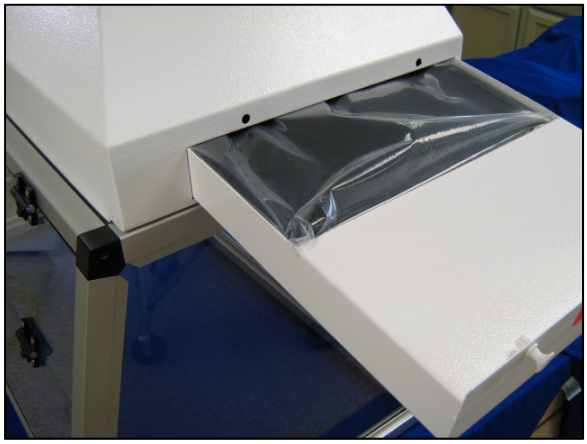
3.3 Step 3

3.3.1 Remove plastic bags from both sets of Filters on the Left and Right side of the Active Updraft Blower Housing.

3.3.1.1 Pull out Catch Pins to Release filter housing from the Active Updraft Blower Housing.



3.3.1.2 Slide filter housing with filters out.

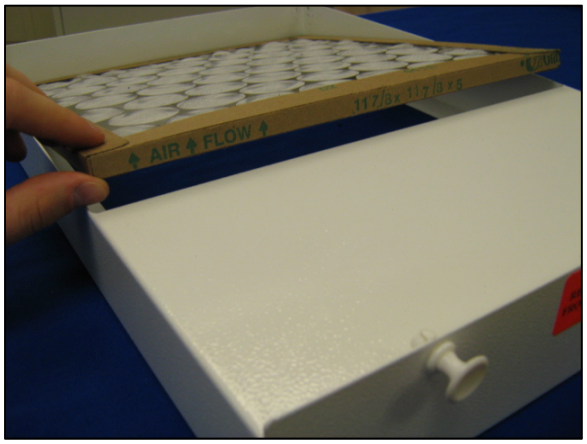


3.3.1.3 Use fingers to push Filters out from the back side.

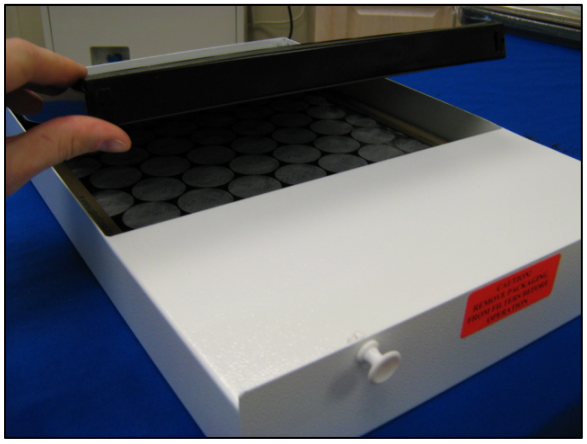
3.4 Step 4

3.4.1 Re install filters back into filter housing.

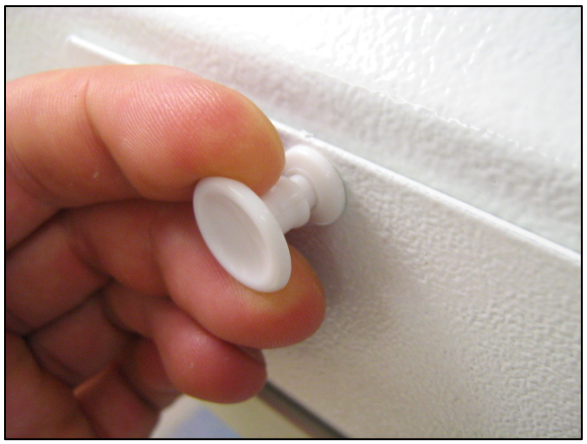
3.4.1.1 Place Pre Filter in the correct orientation with the airflow arrows pointing up.



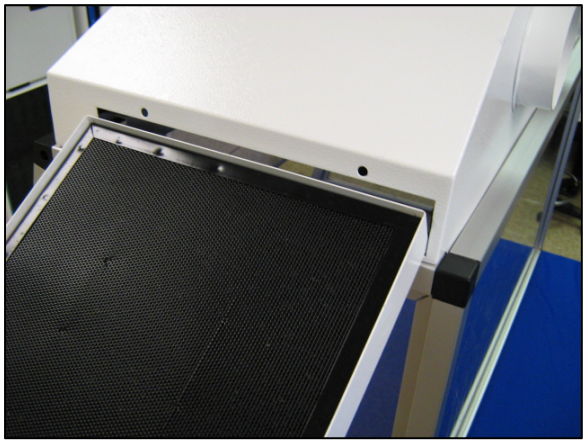
3.4.1.2 Place Filter on top of Pre Filter

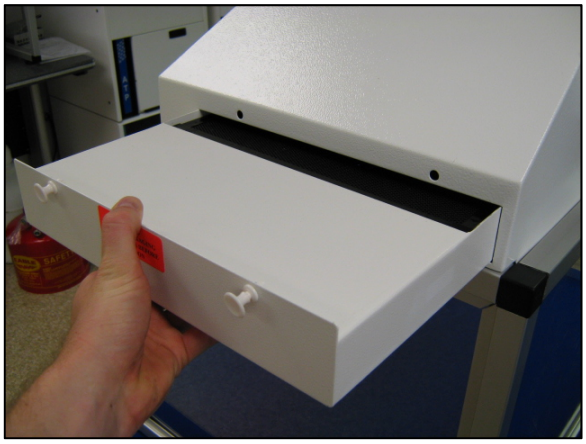


3.4.1.3 Ensure that catch pins are pulled out.



3.4.1.4 Install filter housing with filters into the Active Updraft Blower Housing.





3.5 Step 5

3.5.1 Install the Power Cord

3.5.1.1 Ensure Power Switch is in "OFF" position.

3.6 Step 6

3.6.1 Turn the Power on.

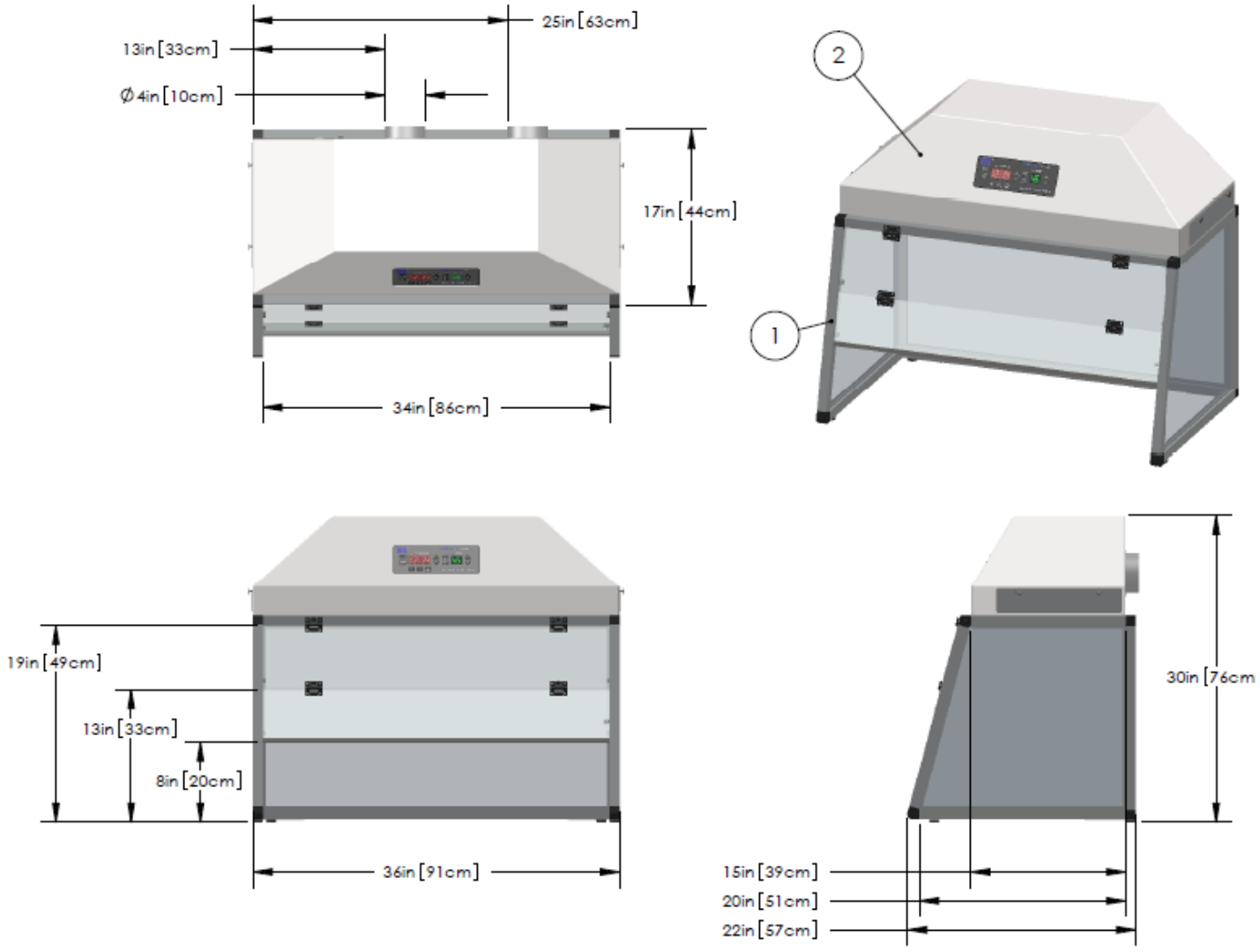
3.6.2 When powering on, Unit Firmware type is displayed.

3.6.3 When powering on, Firmware version is displayed.

4.0 SPECIFICATIONS

4.1 SC-36S-X or -F

4.1.1 Specifications Illustration

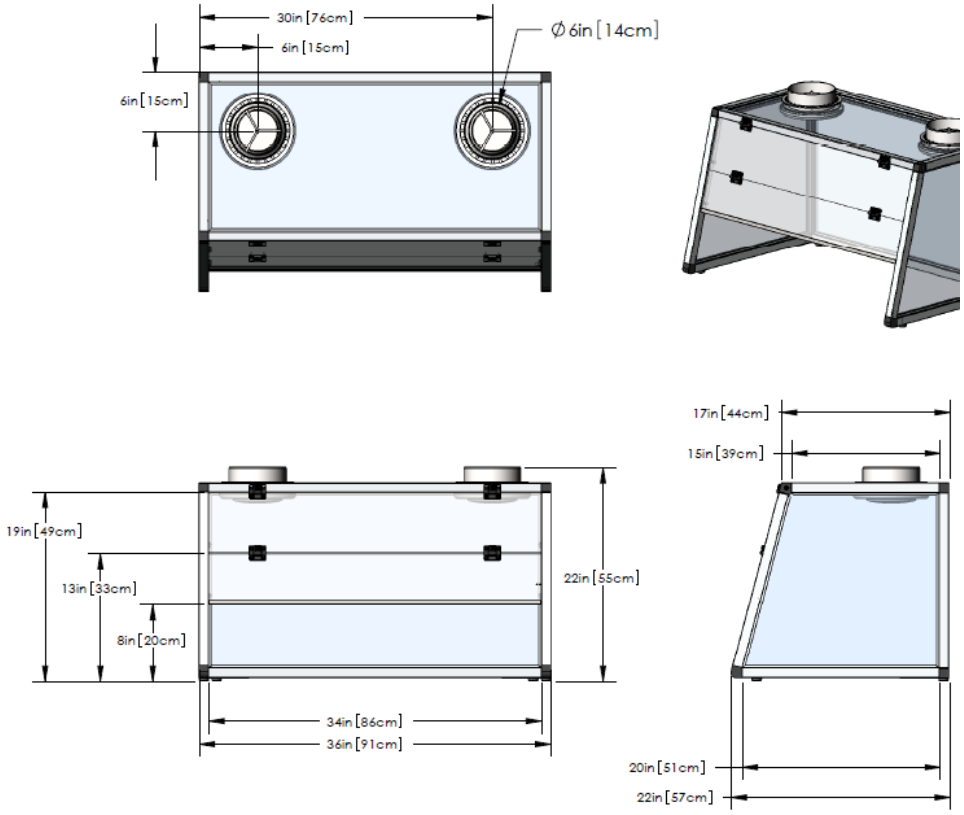


4.1.2 Specifications Table

Cat. #	SC-36S-X (or -F)	SC-36S-X(or-F)-220
TYPE	Active Updraft Slope Front Fume Hood	Active Updraft Slope Front Fume Hood
DEFAULT FILTER LIFE	270 HRS	270 HRS
EXTERNAL DIMENSIONS	36x30x22 inches / 91x76x57cm	36x30x22 inches / 91x76x57cm
APPLICATION	Grossing, Manual Cover Slipping, Reagent Handling	Grossing, Manual Cover Slipping, Reagent Handling
AIR MOVERS	Two Internal Fans 174 cfm each	Two Internal Fans 174 cfm each
WEIGHT	81 lbs./ 37kg	81 lbs./ 37kg
Packaged Shipping Weight	150 lbs. / 68kg	150 lbs. / 68kg
Measured Face Velocity	90 feet per minute with Sash in Full Down Position.	90 feet per minute with Sash in Full Down Position.
Speed Settings	1-10	1-10
Carbon Filter Life	270 hours	270 hours
120V Current	1.2 Amps, 2.0 Amp Fuse	N/A
240V Current	N/A	0.7 Amps, 2.0 Amp Fuse
Important Notes:	Decimal dimensions have been rounded off to the nearest integer.	Decimal dimensions have been rounded off to the nearest integer.
	Rubber Feet	Rubber Feet
	Battery Powered Clock Back-up	Battery Powered Clock Back-up
	Replacement Pre Filter and Charcoal Filter Combo Cat. # **SC-36S-XF (xylene containment), #SC-36SS-FF (formaldehyde containment)**.	Replacement Pre Filter and Charcoal Filter Combo Cat. # **SC-36S-XF (xylene containment), #SC-36SS-FF (formaldehyde containment)**.

4.2 SC-36S-WOME-TV

4.2.1 Specifications Illustration

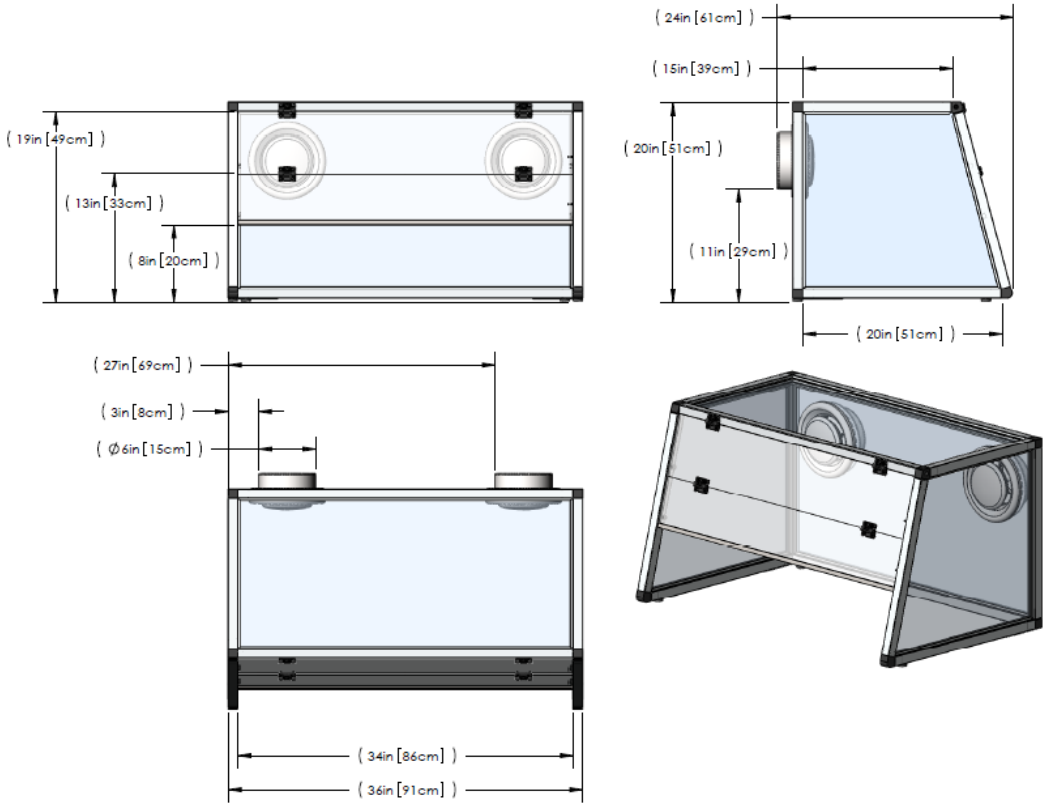


4.2.2 Specifications Table

CAT#	SC-36S-WOME-TV
TYPE	PASSIVE SLOPE FRONT
DESCRIPTION	PASSIVE 36" TOP VENT SLOPE FRONT FUME HOOD
EXTERNAL DIMENSIONS	36x22x22 inches
	91x57x55 cm
INTERNAL DIMENSIONS	34x20x19 inches
	86x51x49 cm
FRONT CLEARANCE	19 inches
	49 cm
APPLICATION	Manual Staining
AIR MOVERS	In-house Ventilation System
ADDITIONAL FEATURES	Multi Position Sash, Lexan Panels
IMPORTANT NOTES	Decimal dimensions have been rounded off to the nearest integer.
	Recommended minimum 300 cfm per exhaust port.
	Exhaust ports are 6" std and have built-in adjustable airflow control dampers.

4.3 SC-36S-WOME-RV

4.3.1 Specifications Illustration

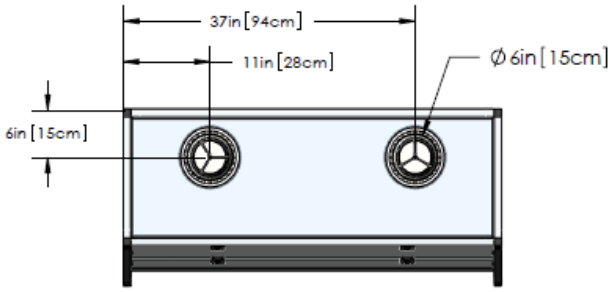


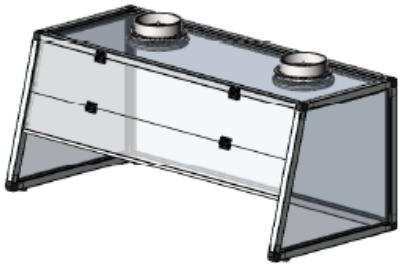
4.3.2 Specifications Table

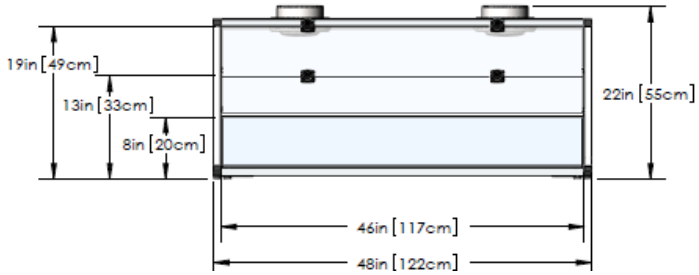
CAT#	SC-36S-WOME-RV
TYPE	PASSIVE SLOPE FRONT
DESCRIPTION	PASSIVE 36" REAR VENT SLOPE FRONT FUME HOOD
EXTERNAL DIMENSIONS	36x24x20 inches
	91x61x51 cm
INTERNAL DIMENSIONS	34x20x19 inches
	86x51x49 cm
FRONT CLEARANCE	19 inches
	49 cm
APPLICATION	Manual Staining
AIR MOVERS	In-house Ventilation System
ADDITIONAL FEATURES	Multi Position Sash, Lexan Panels
IMPORTANT NOTES	Decimal dimensions have been rounded off to the nearest integer.
	Recommended minimum 300 cfm per exhaust port.
	Please note that a clearance of 6 inches is required behind the Fume Hood to allow for a 6 inch 90 degree elbow air connector.
	Exhaust ports are 6" std and have built-in adjustable airflow control dampers.

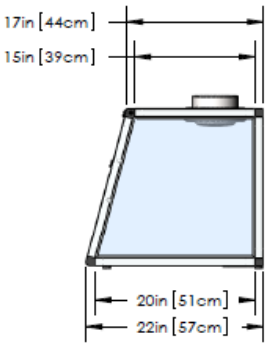
4.4 SC-48S-WOME-TV

4.4.1 Specifications Illustration







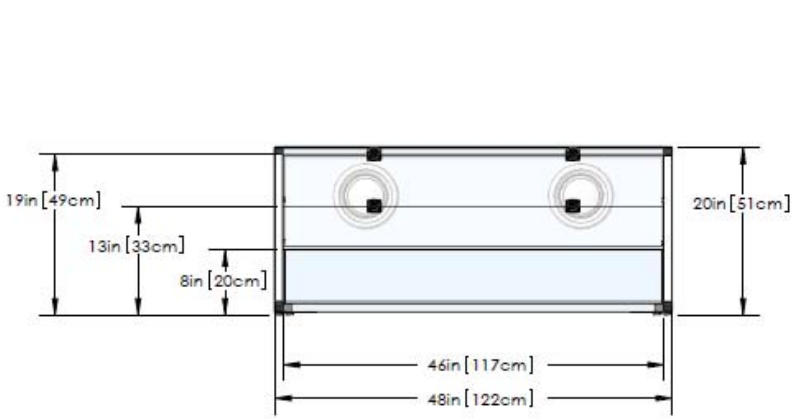


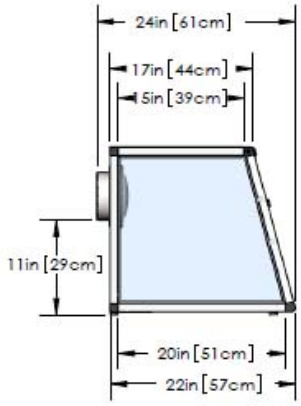
4.4.2 Specifications Table

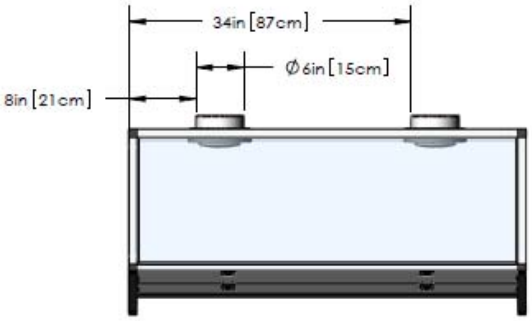
CAT#	SC-48S-WOME-TV
TYPE	PASSIVE SLOPE FRONT
DESCRIPTION	PASSIVE 48" TOP VENT SLOPE FRONT FUME HOOD
EXTERNAL DIMENSIONS	48x22x22 inches
	122x57x55 cm
INTERNAL DIMENSIONS	46x20x19 inches
	117x51x49 cm
FRONT CLEARANCE	19 inches
	49 cm
APPLICATION	Manual Staining
AIR MOVERS	IN-HOUSE VENTILATION SYSTEM
ADDITIONAL FEATURES	Multi Position Sash, Lexan Panels
IMPORTANT NOTES	Decimal dimensions have been rounded off to the nearest integer.
	Recommended minimum 300 cfm per exhaust port.
	Exhaust ports are 6" std and have built-in adjustable airflow control dampers.

4.5 SC-48S-WOME-RV

4.5.1 Specifications Illustrations





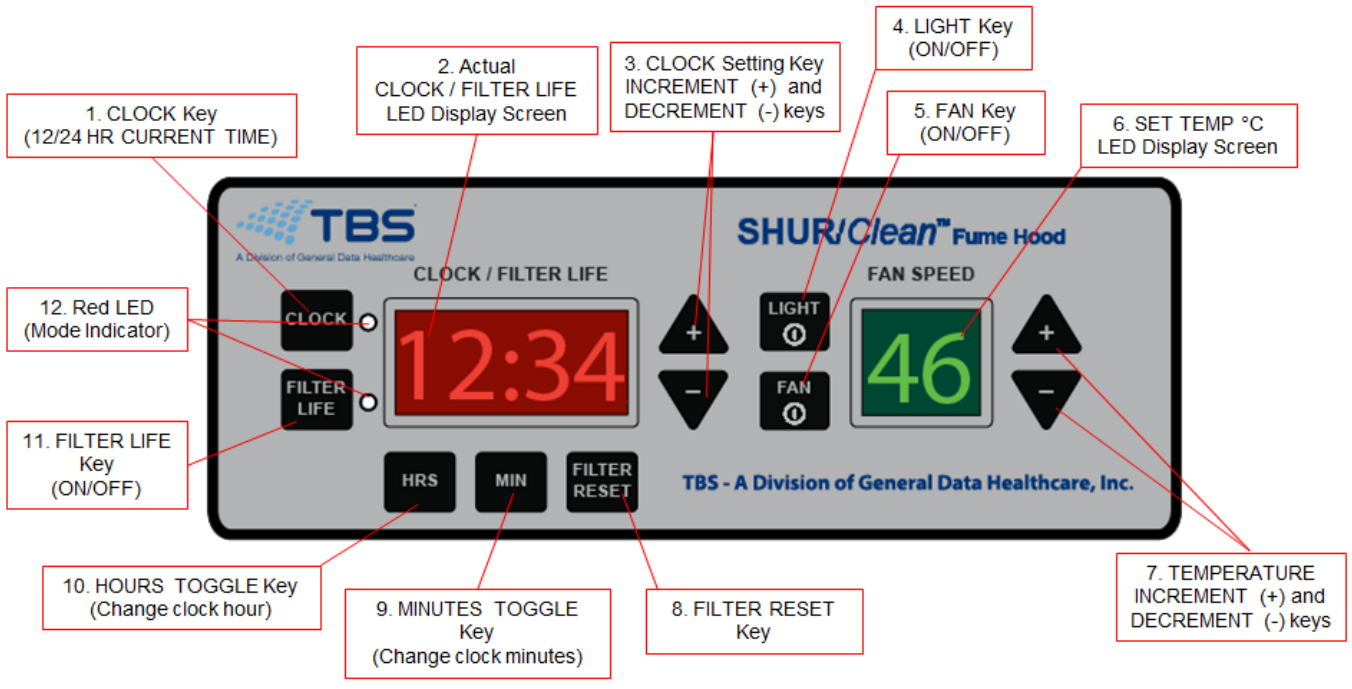


4.5.2 Specifications Table

CAT#	SC-48S-WOME-TV
TYPE	PASSIVE SLOPE FRONT
DESCRIPTION	PASSIVE 48" TOP VENT SLOPE FRONT FUME HOOD
EXTERNAL DIMENSIONS	48x22x22 inches
	122x57x55 cm
INTERNAL DIMENSIONS	46x20x19 inches
	117x51x49 cm
FRONT CLEARANCE	19 inches
	49 cm
APPLICATION	Manual Staining
AIR MOVERS	IN-HOUSE VENTILATION SYSTEM
ADDITIONAL FEATURES	Multi Position Sash, Lexan Panels
IMPORTANT NOTES	Decimal dimensions have been rounded off to the nearest integer.
	Recommended minimum 300 cfm per exhaust port.
	Exhaust ports are 6" std and have built-in adjustable airflow control dampers.

5.0 OPERATING INSTRUCTIONS

5.1 Control Panel Key Descriptions



5.1.1 Clock

This button changes the 4 digit display to now show the current time. When the clock is being displayed, the period between the hours and minutes digits will be on (no blinking).

5.1.2 CLOCK/FILTER LIFE LED Display Screen

Displays the clock or filter life depending on the current mode. Mode is indicated by the Red LED to the right of the **CLOCK** and **FILTER LIFE** buttons.

5.1.3 CLOCK/FILTER LIFE Setting Keys

Pressing the "+" button increases the **HRS** or **MIN** and pressing the "-" button decreases the **HRS** or **MIN** of the time.

5.1.4 FAN

Press this button to turn the fan on and off.

5.1.5 FAN SPEED LED Display

Displays fan speed

5.1.6 FAN SPEED Setting Keys

Use these keys to increase or decrease fan speed.

5.1.7 FILTER RESET

Utilize the **FILTER RESET** button to reset the filter life value to the reset value after each filter change.

5.1.8 MIN

This button places the unit into a set mode. If the clock is currently being displayed, it causes the minute LED to blink indicating to the user that they may now set the minutes. The minutes are then set with the + and – keys on the far right. The set mode will exit if any key other than the + or – key are depressed.

5.1.9 HRS

This button places the unit into a set mode. If the clock is currently being displayed, it causes the hour's button to blink indicating to the user that they may now set the hours. The hours is then set with the + and – keys on the far right. The set mode will exit if any key other than the + or – key are depressed.

5.1.10 RED LED

These LEDs indicate which mode the display is reading, either **CLOCK** or **FILTER LIFE**.

5.1.11 FILTER LIFE

This button displays the remaining filter life in hours. When the remaining filter life is displayed in **CLOCK/FILTER LIFE** window, a decimal will be displayed in the upper right corner of display.

5.1.12 LIGHT

This button activates the fluorescent tube light.

5.2 Typical Use Instructions

5.2.1 Setting Clock Time

Utilize **CLOCK** button to display time in **CLOCK/FILTER LIFE** window. Press **HRS** button then utilize +/- buttons to increase/decrease hour setting. Press **MIN** button to utilize +/- buttons to increase/decrease minute setting. Depress **CLOCK** button once to display time in 12 hour format, twice to display time in 24 hour format. A colon will blink in 1 second increments when clock is being displayed.

5.2.2 Setting and Resetting Filter Life

Depress the **FILTER LIFE** button once to display the remaining filter life in hours. When the remaining filter life is displayed in **CLOCK/FILTER LIFE** window, a decimal will be displayed in the upper right corner of display. Depress the **FILTER LIFE** button twice to display the reset value (maximum filter life). No decimal is displayed when displaying the reset value (maximum filter life). Utilize the **FILTER RESET** button to reset the filter life value to the reset value after each filter change.

5.2.3 Fan Activation and Speed Control

Utilize the **FAN** button to turn the fan on or off. When the fan is activated, the decimal in the upper right corner will flash to indicate that the filter life timer is counting the filter hours used.

When the fan is activated, utilize the +/- arrows beside the **FAN SPEED** window to increase/decrease the fan speed from a setting of 1 (lowest) to 10 (highest). When the fan is turned off, the **FAN SPEED** window will display 00. When the fan is activated again, the fan will default to the previous speed setting.

6.0 MAINTENANCE

6.1 FUSE REPLACEMENT

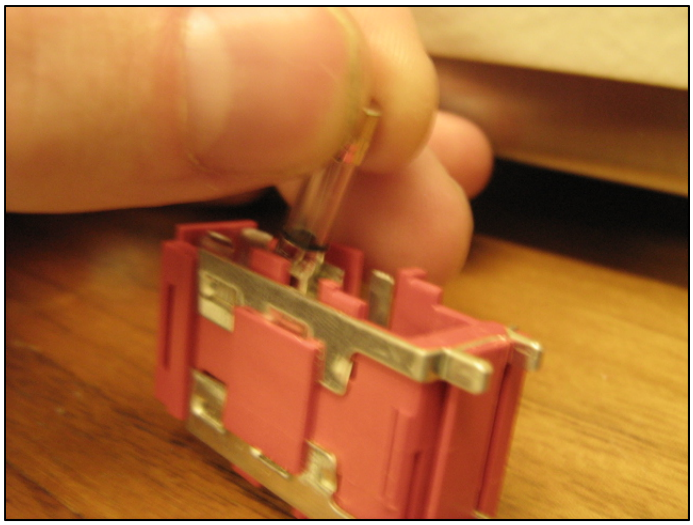
6.1.1 Fuse may need to be replaced if unit does not power up.

6.1.2 See Specifications Sheet for fuse specifications.

6.1.3 Open Fuse Cover On Power Entry Module

6.1.4 Gently Remove the Fuse Housing

6.1.5 Gently Remove Two Fuses From the Fuse Housing



7.0 WARNING

7.1 Sharp Edges

7.1.1 Take care to exercise caution when performing maintenance. Protect yourself against edges on internal components such as the Particulate Filter Housing.

7.2 Electric Shock

7.2.1 Make sure the instrument is not plugged in to a power source when performing maintenance. Do not touch internal wiring or electronics.

CONTACT INFORMATION

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