

Tissue-Tek® Accu-Edge® *FLEX* Grossing Station

Operating Manual

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continuous innovation for pathology



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1. Introduction



1. Introduction

1.1 Intended use

The Tissue-Tek® Accu-Edge® *FLEX* Grossing Station is designed for the purpose of grossing human and animal tissue specimens.

The instrument, as part of the histopathology process, is intended to facilitate the in vitro examination of human and animal tissue for morphology changes by a pathologist.

1.2 General description

The Tissue-Tek Accu-Edge *FLEX* Grossing Stations are custom built units that are plumbed for running tap water and vented for fume exhaust. The Grossing Stations are used as working stations for the gross analysis of tissue samples.

The Grossing Stations offer the opportunity to customize a Grossing Station to fit a lab's specific needs. The Grossing Stations are built from surgical grade stainless steel and promote standardized performance while enhancing grossing capabilities.

1.3 Safety instructions

The Tissue-Tek Accu-Edge *FLEX* Grossing Station operating manual includes important instruction and information related to the operating safety and maintenance of the instrument. It is important to read the operating manual carefully prior to the operation of the instrument for the first time and to always keep the manual with the instrument.

1.4 Safety precautions

WARNINGS, CAUTIONS, and NOTES are provided throughout this manual to indicate levels of potential hazards as defined below:

WARNING Identifies a potential hazard in which failure to follow instructions may result in serious injury to the operator and/or other personnel.



CAUTION Indicates a potential hazard in which failure to follow instruction may result in damage to the Tissue-Tek Accu-Edge Grossing Station and/or other property.



NOTE Indicates a reminder or other helpful information.

CAUTIONS:

- **Make sure the station is powered off before performing daily care.**
- **Do not clean with chloride-containing detergents.**



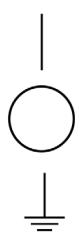
1.5 Explanation of safety warnings



The **Garbage Disposal** has rotating parts. Never put your hands or fingers inside the garbage disposal. Avoid contact with the grinding chamber and rotating blades. Failure to do so may result in personal injury, property damage, or electrical hazards.



WARNING Hazardous Voltage Inside. Disconnect power before servicing. Service by trained personnel only. Consult manual.



On (Power). Standard: IEC 60417 — Graphical Symbol for Use on Equipment.

Off (Power). Standard: IEC 60417 — Graphical Symbol for Use on Equipment.

Earth (Ground) Terminal. Standard: IEC 60417 — Graphical Symbol for Use on Equipment

1.6 Products covered

1.6.1 Voltage: 115 VAC, 1 PH 60 Hz, 15 A @115 VAC

Product code	Description
0400	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 48", Left-Hand Sink
0401	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 48", Right-Hand Sink
0402	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 48", Center-Shelf Sink
0403	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 48", Dry, No Sink
0404	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 60", Left-Hand Sink
0405	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 60", Right-Hand Sink
0406	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 60", Center-Shelf Sink

1. Introduction

0407	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 60", Dry, No Sink
0408	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 72", Left-Hand Sink
0409	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 72", Right-Hand Sink
0410	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 96", Center-Shelf Sink
0411	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 48", Left-Hand Sink
0412	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 48", Right-Hand Sink
0413	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 48", Center-Shelf Sink
0414	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 48", Dry, No Sink
0415	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 60", Left-Hand Sink
0416	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 60", Right-Hand Sink
0417	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 60", Center-Shelf Sink
0418	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 60", Dry, No Sink
0419	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 72", Left-Hand Sink
0420	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 72", Right-Hand Sink
0483	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 72", Dry, No Sink
0484	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 72", Dry, No Sink
0485	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 72", Center-Shelf Sink
0486	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 72", Center-Shelf Sink
0487	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 48", Left Sink

0488	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 48", Right Sink
0489	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 48", Shelf Mini Sink
0490	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 48", No Sink
0491	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 60", Left Sink
0492	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 60", Right Sink
0493	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 60", Shelf Mini Sink
0494	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 60", No Sink
0495	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 72", Left Sink
0496	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 72", Right Sink
0497	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 72", Shelf Mini Sink
0498	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 72", No Sink

1.6.2 Voltage: 220 VAC, 1 PH 50/60 Hz, 10 A @220 VAC

Product code	Description
0400-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 48", Left-Hand Sink
0401-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 48", Right-Hand Sink
0402-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 48", Center-Shelf Sink
0403-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 48", Dry, No Sink

1. Introduction

0404-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 60", Left-Hand Sink
0405-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 60", Right-Hand Sink
0406-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 60", Center-Shelf Sink
0407-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 60", Dry, No Sink
0408-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 72", Left-Hand Sink
0409-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 72", Right-Hand Sink
0410-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 96", Center Shelf Sink
0411-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 48", Left-Hand Sink
0412-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 48", Right-Hand Sink
0413-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 48", Center-Shelf Sink
0414-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 48", Dry, No Sink
0415-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 60", Left-Hand Sink
0416-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 60", Right-Hand Sink
0417-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 60", Center-Shelf Sink
0418-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 60", Dry, No Sink
0419-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 72", Left-Hand Sink
0420-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 72", Right-Hand Sink
0483-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 72", Dry, No Sink
0484-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 72", Dry, No Sink

0485-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Elevating Grossing Station, 96", Dry, No Sink
0486-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Grossing Station, 96", Dry, No Sink
0487-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 48", Left Sink
0488-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 48", Right Sink
0489-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 48", Shelf Mini Sink
0490-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 48", No Sink
0491-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 60", Left Sink
0492-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 60", Right Sink
0493-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 60", Shelf Mini Sink
0494-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 60", No Sink
0495-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 72", Left Sink
0496-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 72", Right Sink
0497-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 72", Shelf Mini Sink
0498-EX	Tissue-Tek® Accu-Edge® <i>FLEX</i> Countertop Grossing Station, 72", No Sink

1. Introduction

1.7 Physical characteristics

The grossing stations are comprised of the following major systems and components (Figures 1A and 1B):

1.7.1 Tissue-Tek Accu-Edge *FLEX* Elevating Grossing Station (0400 to 0410, 0483, 0485, 0400-EX to 0410-EX, 0483-EX, 0485-EX)

NOTE: The Tissue-Tek Accu-Edge *FLEX* Elevating Grossing Station features adjustable height.

Elevation

The elevating switch is located on the front of station and allows the work area to elevate from 32 to 44 inches (81.3 to 111.8 cm) and the entire units from 75 to 87 inches (190.5 to 221.0 cm).

Listed are the standard accessories:

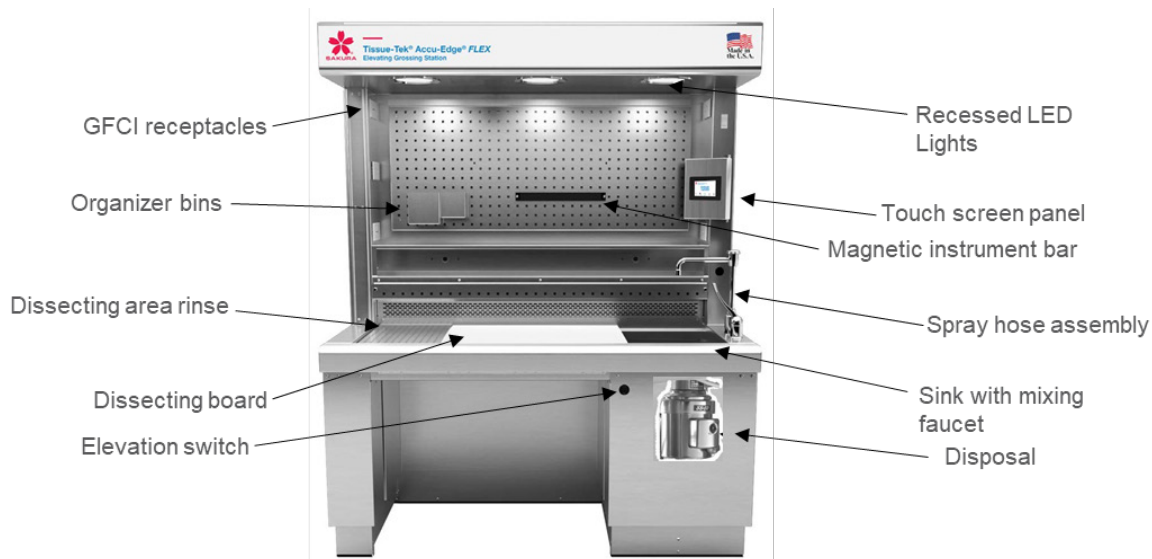


Figure 1A

1.7.2 Tissue-Tek Accu-Edge *FLEX* Countertop Grossing Station (0487 to 0498, 0487-EX to 0498-EX)

NOTE: The Tissue-Tek Accu-Edge *FLEX* Countertop Grossing Station is designed to be placed on a countertop and is also a fixed height unit.

Listed are the standard accessories:

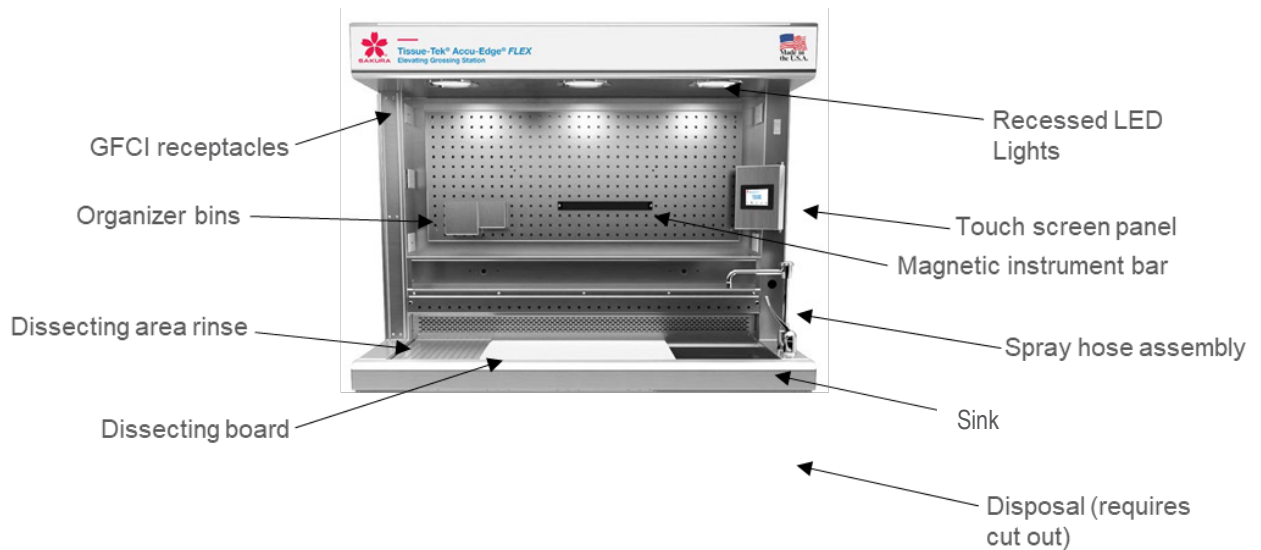


Figure 1B

1.7.3 Tissue-Tek Accu-Edge *FLEX* Grossing Station (0411 to 0420, 0484, 0486, 0411-EX to 0420-EX, 0484-EX, 0486-EX)

NOTE: Image not available for this model.

NOTE: The Tissue-Tek Accu-Edge *FLEX* Grossing Station is a fixed height unit with a leg assembly, essentially a countertop model.

1. Introduction

1.8 Descriptions of standard accessories

Stainless steel construction

Backdraft ventilation

Seismic anchoring points

Integrated hood-mounted camera cut-out and cover plate

Faucet mixing-flow control

Side/column accessory mounts

One (1) perforated grid plate

Two (2) wire ports for cord management

Replaceable ventilation filter mount in the front grill

Large Sink with Mixing Faucet

A 10" (25.4 cm) deep sink, located on the right or left side (as configured), is built into the station. It includes a gooseneck Mixing Faucet that can be operated hands-free or by foot controls, with built-in vacuum breaker protection. The water temperature is controlled by the mixing valve inside the sink cabinet.

Exhaust Duct

All in house units can be ducted to an external ventilation system for the removal of hazardous fumes, vapors, and odors. For the 48", 60" and 72" each unit has 2 ducts (8 inches) and 96" has 3 ducts. Please consult with your facilities department for installation instructions.

Peg Board

The pegboard backsplash on the grossing station is designed for organization and flexibility. It provides storage and arrangement for tools and accessories. The metal pegboard accommodates hooks, shelves, and bins, ensuring essential instruments are accessible.

Touch Screen Control Panel

The touch screen control panel provides an interface for controlling various features of the station. It allows adjustment of lighting, and timers.

Organizer Bins

Removable, metal bins can be mounted onto the grossing station pegboard back splash Station to allow for convenient storage and organization of tools. Included on all units is 1 large and 1 small bin.

Disposal ½ Hp

When activated, the heavy-duty motor runs on a continuous basis and has a manual reset overload switch if needed. See manufacturer's specification sheet for additional information.

Elevation (only standard on elevating units)

The elevating switch is located on the front of station and allows the work area to elevate from 32 to 44 inches (81.3 to 111.8 cm) and the entire units from 75 to 87 inches (190.5 to 221.0 cm).

G.F.C.I. Waterproof Electrical Receptacles

(4) Power outlets rated at 15A (2 G.F.C.I. Waterproof Electrical Receptacles, 2 with USB power), located in the upper area of the unit

Magnetic Instrument Bar

A magnetic bar can be placed on the pegboard to store and organize common tools within arm's reach.

1. Introduction

1.9 Specifications

1.9.1 Product name and codes

Tissue-Tek® Accu-Edge® *FLEX* Grossing Stations

0411 to 0420, 0484, 0486, 0411-EX to 0420-EX, 0484-EX, 0486-EX

Tissue-Tek® Accu-Edge® *FLEX* Elevating Grossing Stations

0400 to 0410, 0483, 0485, 0400-EX to 0410-EX, 0483-EX, 0485-EX

Tissue-Tek® Accu-Edge® *FLEX* Countertop Grossing Stations

0487 to 0498, 0487-EX to 0498-EX

1.9.2 Dimensions and weights – 48”

Dimensions uncrated L x W x H	48 x 32 x 75 to 87 inches (1.2 m x 0.8 m x 1.9 to 2.2 m)
Dimensions crated L x W x H	58 x 41 x 84 inches (1.5 m x 1.0 m x 2.1 m)
Weight uncrated	552 lbs. (251 kg)
Weight crated	814 lbs. (369 kg)

1.9.3 Dimensions and weights – 60”

Dimensions uncrated L x W x H	60 x 32 x 75 to 87 inches (1.5 m x 0.8 m x 1.9 to 2.2 m)
Dimensions crated L x W x H	70 x 41 x 84 inches (1.8 m x 1.0 m x 2.1 m)
Weight uncrated	885 lbs. (401 kg)
Weight crated	890 lbs. (404 kg)

1.9.4 Dimensions and weights – 72”

Dimensions uncrated L x W x H	72 x 32 x 75 to 87 inches (1.8 m x 0.8 m x 1.9 to 2.2)
Dimensions crated L x W x H	82 x 41 x 84 inches (2.1 m x 1.0 m x 2.1 m)
Weight uncrated	950 lbs. (431 kg)
Weight crated	1,014 lbs. (460 kg)

1.9.5 Dimensions and weights – 96”

Dimensions uncrated L x W x H	96 x 32 x 75 to 87 inches (2.4 m x 0.8 m x 1.9 to 2.2 m)
Dimensions crated L x W x H	106 x 41 x 84 inches (2.7 m x 1.0 m x 2.1 m)
Weight uncrated	1,100 lbs. (499 kg)
Weight crated	1,370 lbs. (621 kg)

Electrical specifications

All Tissue-Tek Accu-Edge *FLEX* Grossing Stations are designed to be hard wired to the building, and require a **separate** circuit from one hospital grade duplex ground fault circuit interrupter (GFCI) receptacle:

Rated voltage and current

Voltage: 115 VAC, 1 PH 60 Hz 15 A @115 VAC

Voltage: 220 VAC, 1 PH 50/60 Hz 10 A @220 VAC (All “XXXX-EX” product codes)

Plumbing specifications

$\frac{3}{4}$ inch (1.9 cm) cold and $\frac{1}{2}$ inch (1.3 cm) hot water supply lines with shut off valve and $1\frac{1}{2}$ inches (3.8 cm) drain line must be supplied.

$1\frac{1}{2}$ inches (3.8 cm) I.D. reinforced flexible hose is provided for connection to facility drain line.

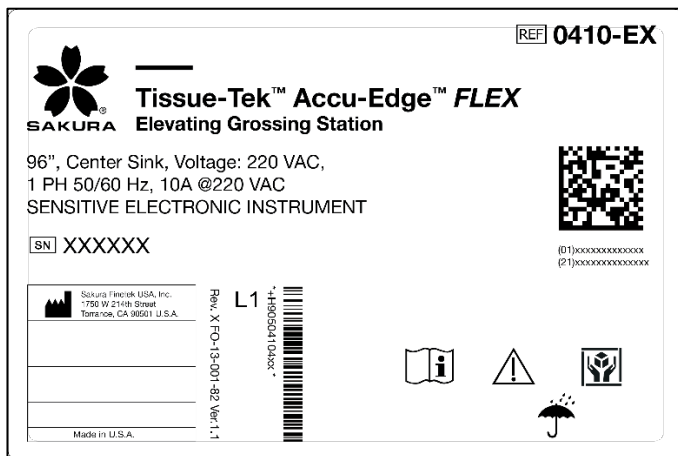
35-45 lbs. (15.9 – 20.5 kg) of water pressure is recommended.

1. Introduction

1.9.6 Standards

The Tissue-Tek grossing station products are designed and manufactured under the guidelines:

- **ISO 9001:2015** with Design.
- **TÜV Rheinland® Certified IEC 61010-1** Safety requirements for electrical equipment for measurement, control, and laboratory use.
- **EN 61010-1:2010** Safety requirements for electrical equipment for measurement control and laboratory use.



1.9.7 Instrument life expectancy

Seven (7) years



2. Installation



2. Installation

2.1 General information

This section provides detailed installation and setup instructions for the Tissue-Tek Accu-Edge *FLEX* Grossing Station. The installation steps must be followed correctly to ensure proper operation and service. Read this operating manual carefully before attempting to operate the instrument. Follow all instructions carefully.

The Tissue-Tek Accu-Edge *FLEX* Grossing Station must be handled accordingly. Rough handling or dropping the instrument will disturb or damage internal components. Always handle the instrument with care.

Select a place where sufficient clearance can be provided around the instrument. Ample working space is necessary in front of the instrument.

Before installation of the instrument check enclosure panels and plumbing fixtures to ensure all nuts, bolts, and pins are secured in place.

Installation is the responsibility of the user.

A local electrician, plumber, and Heating Ventilation and Air Conditioning (HVAC) personnel must be contracted by the user to connect the instrument to the building.

2.2 Unpacking

The instrument is extremely heavy. Be sure to have the necessary manpower as well as equipment to successfully unload from delivery vehicle. A forklift and/or pallet jack with the capacity to lift, up to 2,000 lbs. (908 kg) is recommended.

2.2.1 Check for freight damage

If the unit has sustained damage during transit or during unloading from the carrier, now is the time to file a freight claim.

NOTE: Many large institutions use their own carrier. A freight claim would be filed with that provider.

- Check for damage to the skid that would result in an unsupported or twisted station.
- Check that the sides of the crate have not been punctured or smashed.
- Check that the top of the crate has not sustained damage or has evidence of being placed upside down.
- Take photographs of any damage and contact the manufacturer or your private freight carrier if applicable.

2.2.2 Uncrating contents

- Remove the top boards from the crate. Place in a dumpster or out of the way to dispose of later. Watch for staples, nails, and slivers of wood.
- Remove the sideboards, end boards, and plywood from the crate.
- Remove the corner posts of the crate. Pull downward and then sideways to break away from the base.
- Remove all the bracing at the bottom of the skid. Note the small 2"x 4" (5 cm x 10 cm) blocks nailed to prevent the unit from moving.
- Carefully cut the plastic wrap so the unit is not scratched, and the components are not damaged.
- Unwrap the plastic wrap and foam from the unit.
- Cut and remove the metal banding material securing the unit.
- Look the unit over for hidden damage. If found, take photos, and contact your sales representative.
- Remove any optional equipment from the sink, under the sink, or behind the doors (if so equipped).
- Ensure all plumbing and wiring are secured and up and out of the way before moving the unit.

2.2.3 Removing the instrument from the skid

- Ensure there is plenty of room to work around the unit.
- Tip the unit forward to retract the back leveling feet to allow the unit to slide on the crate floor.
- Tip the unit back to retract the front leveling feet to allow the unit to slide on the crate floor.
- Slide the unit back a little more than half off the skid, and tilt back until the bottom edge is resting on the floor. Tip the unit back a little farther so the skid can be pulled out from under the unit.
- Then gently put the unit upright on its base, making sure not to drop the unit.

2.2.4 Transporting unit to the final location

- Place the Unit on a. (4) corner dollies or b. (2) skid dollies on each end. If available, one can use c. (2) crank up furniture or Piano Mover style dollies on each end of the station.

2. Installation



- Wheel the unit to the desired location, paying close attention to the dollies when going over thresholds or entering and exiting elevators.
- Pay attention to door frames with magnetic contacts and door closure devices. Watch for low-hanging signs in hallways and door arches.

2.2.5 Placing unit into position

- Before you unload the equipment check that the utilities have been prepared in accordance with the rough-in drawing for your model workstation.
- Check the floor condition is clean and dry and as level as possible. Masonite boards can be used to protect softer styles of flooring.
- The unit has feet that level with non-marring skids and will slide on other hard smooth surfaces.
- Remove the unit from the dollies and set it on the Masonite boards.
- Tip the unit forward to lower the back leveling feet so the bottom of the foot is approximately $\frac{1}{4}$ inch below the frame. This allows the unit to have airflow in case of a water spill.
- Tip the unit back to lower the front leveling feet so the bottom of the foot is approximately $\frac{1}{4}$ inch below the frame.
- Slide the unit back to the desired distance, if different than the approval drawing.
- The back feet should drop off the Masonite board near the installation location.

NOTE: Do not slide the unit on soft vinyl flooring, it will tear the flooring. If the unit must be adjusted, it will have to be moved one end at a time on soft vinyl flooring. The unit will slide on other hard smooth surfaces.

- Confirm the distance of the unit from the wall is 3" (7.62cm) or more.
- Level the unit using retractable leveling feet on the bottom of station.

2.3 Connecting the unit to electrical, plumbing and ventilation

2.3.1 Electrical

The dedicated circuit electrical system should then be tested per local codes or guidelines at this time and before the unit is plugged in supplying power.

The workstation receives power by a rear mounted three-prong connector. These plugs are recognized globally and make it simple to use in the global marketplace by simply changing the power supply cord, depending in which country it is installed.

115 V Models

- 115 VAC/ 1 PH 60 Hz, 15 A @115 VAC
- 115 VAC/ 1 PH/ 60 Hz on a dedicated 15 A circuit
 - Full Load FLA= 7.2 A Nominal= 3.2 A

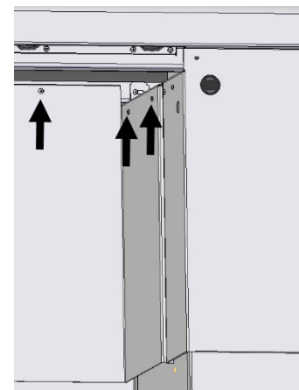
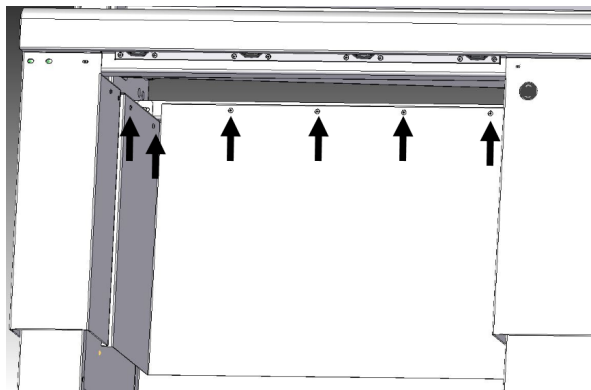
220 V Models

- 220 VAC/ 1 PH 50/60 Hz, 10 A @220 VAC
- 220 VAC/ 1 PH/ 50/60 Hz on a dedicated 10 A circuit
 - Full Load FLA= 5.6 A Nominal= 2.0 A

2.3.2 Plumbing

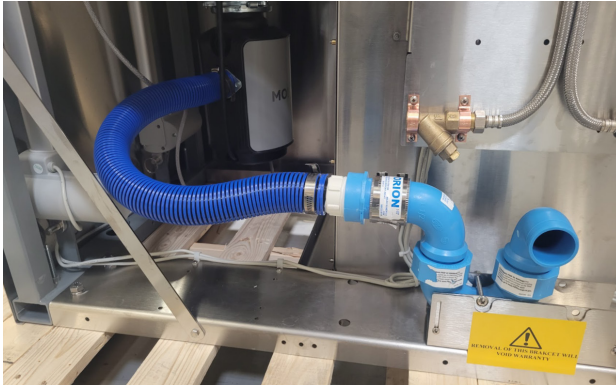
NOTE: Do not use a powered screw gun to remove or install the screws. A screw gun can damage the PEM nut in the sheet metal.

- Plumbing connections are to be made by a licensed professional plumber.
- The inner knee space skirting will have to be removed to access the connections for electrical and plumbing. Unless otherwise accessible from the end or the back of the unit.



2. Installation

- Check that the internal flexible drain line is present and still connected to the P-Trap assembly free from any obstruction. The unit is shipped fully lowered in elevation so the flex line will appear flattened out.



Lowered



Raised

- With the plumbing bracket mounted to the factory location on the frame (as shown in the image above) the facility drain line can be connected either via a flexible line with hose clamps or hard plumbed per your local codes and regulations. The unit is designed to drain properly in this configuration if roughed in per the drawing.

NOTE: The P-Trap bracket is designed to be adjustable up and down with the slotted design of the bracket. Completely removing the bracket from the base will break the seal of the yellow sticker and void the unit's warranty. These grossing stations are designed to elevate and have a designed length of hose to ensure proper drainage and function while in service.

CAUTION:

Elevating units must retain the factory flexible line connection from the disposal to the P-Trap. A hard connection will cause damage to the unit or the facility's plumbing or both.

CAUTION



- HOT and COLD water lines should be connected directly to the factory-supplied water strainers. Especially in new construction, these strainers are your only protection from site debris damaging seals and valves in your new workstation.



- Water strainers supplied have a ½” NPT female thread. Plan final connections to HOT and COLD water lines accordingly. Be sure to use a backup wrench on the strainer when tightening the connections.

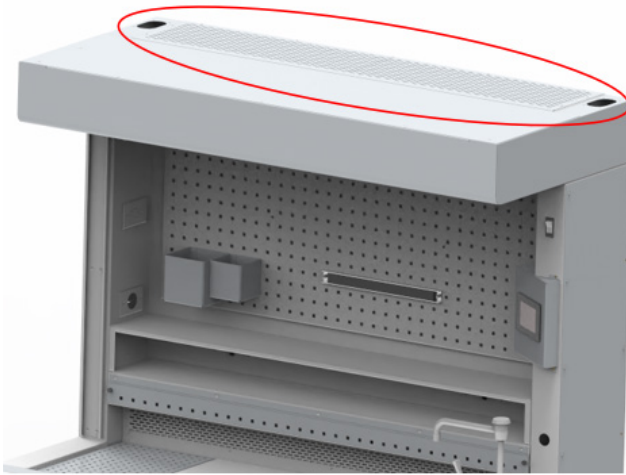
2.3.3 External ventilation

NOTE: A standard unit is supplied with (2) 8” (20.32cm) round flex ducts connections – see your approval drawing and rough-in drawing for more information.

- At this point, the unit should still be in its lowest elevation position, if not, please lower it to the lowest position to properly size the flexible ducts to the facility connection.
- Locate the (2) 8” (20.32 cm) round flex ducts and (4) hose clamps shipped with the unit. These are typically shipped in the knee space on the skid. Otherwise check in the sink.
- Slide the vent duct and clamp over the duct stubs on the top of the unit.
- Connect the opposing end to the facility vent stubs. With the unit still in its lowest elevation, the excess flexible duct may be trimmed to fit. This will optimize flow performance throughout the elevation range by reducing the chance of any bunching or kinking due to excess material.
- Tighten all hose clamps on the ducts.
- The filters for replacement (REF 2.3.3) are listed here:
- 0510 Tissue-Tek® Accu-Edge® *FLEX*, In-Grill Ventilation Particulate Filter for 48-inch Grossing Stations
- 0511 Tissue-Tek® Accu-Edge® *FLEX*, In-Grill Ventilation Particulate Filter for 60-inch Grossing Stations
- 0512 Tissue-Tek® Accu-Edge® *FLEX*, In-Grill Ventilation Particulate Filter for 72-inch Grossing Stations
- 0513 Tissue-Tek® Accu-Edge® *FLEX*, In-Grill Ventilation Particulate Filters for 96-inch Grossing Stations; 2 filters/set

2. Installation

2.3.4 Recirculation ventilation (if equipped)



- No external ductwork is connected if the unit is equipped with recirculating ventilation unit. The unit will have a flat top and exhaust out the grill at the top of the unit.
- Potassium Permanganate Filters are loaded into the front grill. Check that all packaging and wrap are removed from filters before use.
- Be sure to set your filter timer (REF 5.1.4) when installing new filters (REF 6.1.1).
- The filters for replacement (REF 2.3.4) are listed here:

0501 Tissue-Tek® Accu-Edge® *FLEX*, Potassium Permanganate Filters for Recirculating 48-inch Configured Grossing Stations; 2 filters/set

0502 Tissue-Tek® Accu-Edge® *FLEX*, Potassium Permanganate Filters for Recirculating 60-inch Configured Grossing Stations; 2 filters/set

0503 Tissue-Tek® Accu-Edge® *FLEX*, Potassium Permanganate Filters for Recirculating 72-inch Configured Grossing Stations; 2 filters/set

0504 Tissue-Tek® Accu-Edge® *FLEX*, Potassium Permanganate Filters for Recirculating 96-inch Configured Grossing Stations; 4 filters/set

2.4 Decommissioning the unit

2.4.1 Decontaminate the unit

- Decontaminate the workstation per your standard processes.
- Determine if drainage from the unit is classified as a biohazard. This will depend on your local ordinances.

- The disposal unit, the drain line, and P-trap may contain fluids when disconnected.

2.5 To store the unit

2.5.1 Storage in place

- Adjust the elevation to its lowest position for long-term storage.
- Turn off the water supply to the unit. Open and drain all lines including hand spray.
 - If the temperature could drop below freezing it is advisable to pour RV antifreeze down the drain lines, especially the disposal unit.
- Disconnect the ventilation ducts and tape off the opening to prevent dust and debris from entering.
- Disconnect power to the unit.
- Wipe WD40 on all stainless surfaces to protect from transfer rust.
- Cover or drape the unit with a tarp.

2.5.2 Storage on a skid

- Follow the steps in 2.5.1 to prep the unit.
- Lift the unit one end at a time and walk the station side to side onto a skid.
- Strap the unit down across the worksurface and pull it down towards the skid. Be sure to put padding on the edges of the work surface where the straps contact the sheet metal.

2. Installation

2.6 Disposal and recycling

Disposal of the unit is ultimately up to local codes and guidelines. The following section breaks down the materials of construction for recycling purposes.

2.6.1 Stainless steel

- The Hood is made entirely of 304 stainless steel. Remove all electronics and recycle them appropriately.
- The worksurface is also 304 stainless steel.
 - Remove the faucets and fixtures as these are typically chrome-plated brass in construction.
- The lower skirting is 304 stainless steel along with the frame cross connectors.

2.6.2 Ferrous steel

- The only ferrous steel used on the grossing station is in the lower frame weldment where the linear actuators mount.
- If equipped with a magnetic tool bar this will also be made from steel.

2.6.3 Aluminum

- The elevation guideposts are made from aluminum and located in the frame ends.
- If the unit is equipped with a monitor and keyboard arm accessories those are also made of aluminum.

2.6.4 Plastic

- The cutting board and formalin dispense tank lid are made of thick HDPE.
- The waterlines, fittings, flexible vent ducts, and collection carboys are typically made of thermoplastics like polypropylene, vinyl, and polyvinyl chloride and should be recycled accordingly.

2.6.5 Electronics

- The unit has internal circuitry, circuit boards, a touch screen, LED lighting, and actuators that should be recycled as electronic components.



3. Quick start guide



3. Quick start

3.1 Introduction

The following section explains how to start the grossing station and some of its standard functions.

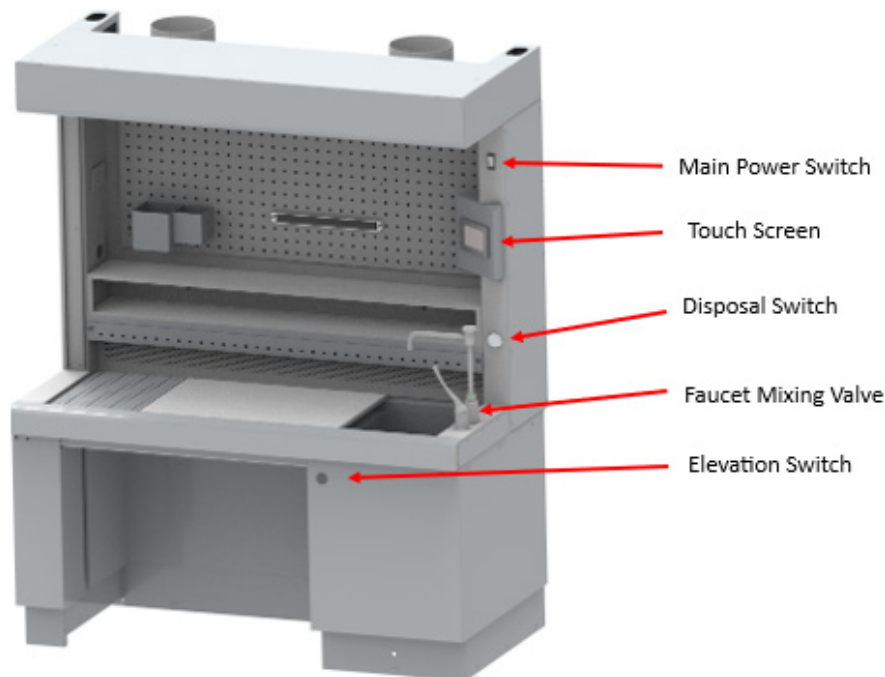
CAUTION: The unit must be installed per factory recommendations in section 3.1 of this user manual.

CAUTION



3.1.1 Powering on

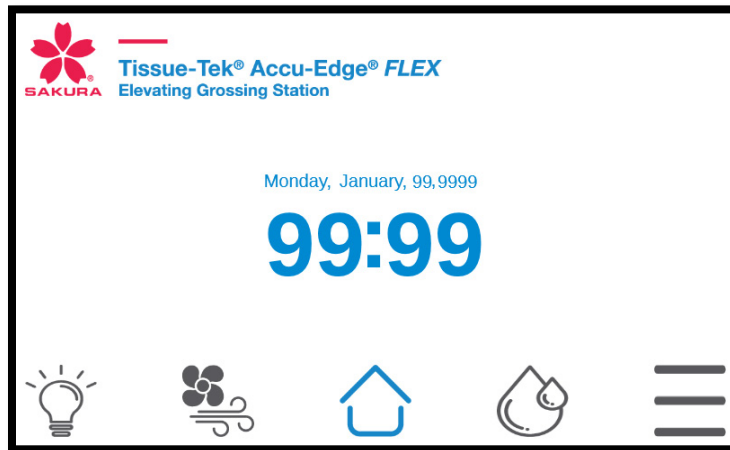
- The unit is powered on by the main power switch located on the sink side column in the Hood section.



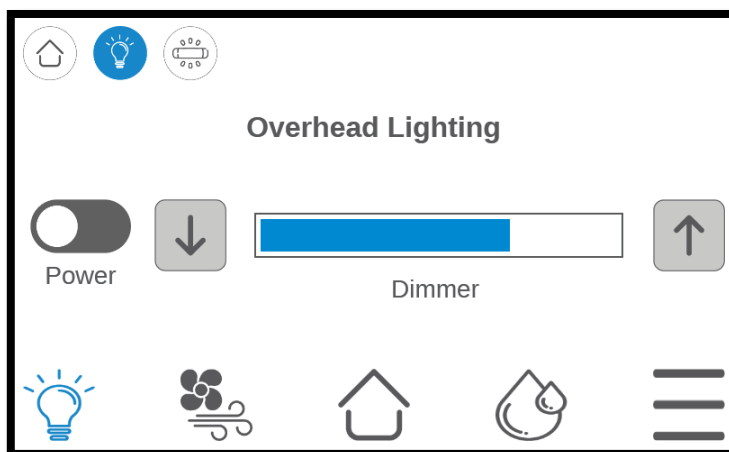
- After the unit is switched on the touchscreen controller will start to boot up. While the system microprocessor boots up you will see the startup screen saver and may see the screen flash.
- The unit will then land on its home page after all processes have finished loading.

3.1.2 Operating touch screen

- With the unit turned on the main page will show. The main page has icon buttons below for Overhead Lighting, Air Flow Monitoring, Timers, and Settings. The middle of the page will display the Date and Time.



- Selecting one of these buttons with a light finger touch will open the page corresponding menu to the button.
 - An illustrated example of when the user presses the “Lighting” button is shown below.



3.1.3 Elevation

- The elevation of the unit is adjustable from the Elevation (</>) button located on the front corner of the sink. The unit has 12” (30.48cm) of elevation, select the best position for sitting or standing. Stand clear and check for obstructions surrounding (and under) the grossing station when raising and lowering the unit.

3.1.4 Faucet operating

- The faucet is controlled by the faucet mixing valve lever. Pulling the lever up and away from the sink turns the water on. Pushing the lever forward and backward from that position will adjust the Hot and Cold-water mix.

3. Quick start

- On units equipped with a Foot Pedal control, the Faucet will turn on and stay on with a foot pedal push. To turn it off simply press the foot pedal again.

NOTE: The ON time of a foot pedal push is controlled by the Water Timer function on the Timer screen. See section 4 of the user manual for instructions on how to adjust this feature Monthly maintenance.

3.1.5 Garbage disposal

- The garbage disposal or disposer is operated via a push-button air switch located on the sink side column (REF 3.1.1 image). The disposal will start and stay on with a button push. To turn it off, simply press the button again.

NOTE: Standard grossing stations units utilize a dry ½ Hp disposer unit. You must run the water to assist in flushing the contents down the drain. Never put hands or tools into the disposer while under power.

3.1.6 Power outlets

- The unit is equipped with power outlets intended for small appliances on the back shelf. These outlets cycle on/off with the unit power switch and are protected by the main GFCI circuit located in the top inside panel of the hood.
- The power outlet located on the opposite end side panel remains powered as long as the unit has facility power. This is typically used to power computers or other devices that should not power cycle with the main switch.

3.2 Powering down

The following section explains how to power down the grossing station.

3.2.1 Shut down

- Use the main power switch to shut down the unit. This will power down the internal circuitry including the power outlets on the hood backsplash.
- Most units are connected to central facility-powered HVAC ventilation and are controlled separately.

NOTE: The auxiliary outlet located on the side panel for computer power does remain powered. To power down this outlet, utilize the facility breaker or unplug the unit's power cord if equipped.

CAUTION: Powering down the unit will also stop recirculating fans if equipped, making sure the work surface is clear of open tissues and laboratory chemicals.

CAUTION





4. Factory options and accessories



4. Factory options

4.1 Factory options and accessories

Standard features

The grossing station is equipped with the following standard features:

- Dimensions: 60" L x 32" W x 75" H & 87" elevated
(1.5 m L x 0.8 m W x 1.9 m H elevated 2.2)
- Stainless steel construction
- 10" (25.4 cm) deep sink located on the right or left side (as configured)
- Backdraft ventilation
- In-house ventilation duct stubs with (2x) 8" (20.32 cm) round flex ducts
- Touch screen control panel and alert system
- Seismic anchoring points
- Integrated hood-mounted camera cut-out and cover plate
- Faucet mixing-flow control
- Side/column accessory mounts
- (4) Power outlets rated at 15 A (2 G.F.C.I. receptacles, 2 with USB power)
- One (1) perforated grid plate
- One (1) sliding work surface cutting board, white
- Two (2) wire ports for cord management
- 1/2 Hp. Disposal (dry)
- Magnetic instrument bar
- One (1) large and one (1) small organizer bin
- Replaceable ventilation filter mount in the front grill

4.2 Factory configured options

Factory-configured options are integrated or built into the unit and should be ordered when built. Although not recommended, some options can be retrofitted in the field but will require a factory-trained technician. This could also require the unit to undergo inspection per local guidelines or electrical safety codes.

4.3 Accessories

4.3.1 Available factory options

The grossing station is equipped with the following standard features:

Part number	Description
0421	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Cabinet Doors for Leg Area*
0422	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Shelf mounted Gooseneck Safety Splash Shield
0423	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Recirculating Air Filtration Unit, 60 inches
0425	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Leg Frame 60 inches
0426	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Red GFCI and USB Outlets
0427	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Formalin Dispensing & Collection System
0428	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Building Management System Alert Integration
0429	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Hand Sprayer & End Rinse Combination, Left Hand Sink Units
0430	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Hand Sprayer & End Rinse Combination, Right Hand Sink Units
0431	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Formalin Dispensing System
0432	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Formalin Collection System
0433	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Foot Pedal Control for Faucet
0434	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Infrared Sensor Control for Faucet
0617	Tissue-Tek® Accu-Edge® <i>FLEX</i> Cabinet Doors for Legs Area, 48"
0618	Tissue-Tek® Accu-Edge® <i>FLEX</i> Cabinet Doors for Legs Area, 72"
0619	Tissue-Tek® Accu-Edge® <i>FLEX</i> Cabinet Doors for Legs Area, 96"

*only for the 60"

4. Factory options

The following accessories are features and tools that can be added to the grossing station at any time by the user or supporting staff.

4.3.2 Standard accessories shipping with grossing stations

Part number	Description
0460	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Countertop Grid Plate
0464	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Dissection Board, White
0446	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Magnetic Tool Bar for Pegboard
0440	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Small Bin for Pegboard
0441	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Large Bin for Pegboard

4.3.3 Other available accessories

Part number	Description
0435	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Stationary Monitor Mount for Pegboard
0436	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Requisition Holder for Pegboard
0437	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Ticket Holder for Pegboard
0438	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Marking Dye Holder for Pegboard
0439	Tissue-Tek® Accu-Edge® <i>FLEX</i> , 14" Shelf for Pegboard
0440	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Small Bin for Pegboard
0441	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Large Bin for Pegboard
0442	Tissue-Tek® Accu-Edge® <i>FLEX</i> , C-fold Glove/Power Towel Bin for Pegboard
0443	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Double C-fold Glove/Paper Towel Bin for Pegboard
0444	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Triple C-fold Glove/Paper Towel Bin for Pegboard
0445	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Quad C-fold Glove/Paper Towel Bin for Pegboard
0446	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Magnetic Tool Bar for Pegboard
0447	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Articulating Monitor Mount for Pegboard
0448	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Barcode Scanner Holster for Pegboard
0449	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Face Shield Holster for Pegboard
0450	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Glasses Holster for Pegboard

0451	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Wipe Dispenser for Pegboard
0452	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Garbage Disposal Upgrade to 1 HP with Waterjet
0453	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Left Side Pegboard Wing Extension
0454	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Right Side Pegboard Wing Extension
0455	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Articulating Keyboard Arm for Vertical Rail
0456	Tissue-Tek® Accu-Edge® <i>FLEX</i> , CPU Mount for Side of Hood
0457	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Monitor Arm for Vertical Rail
0458	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Hitch Mounted Countertop Writing Ledge
0459	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Countertop Light Bar
0460	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Countertop Grid Plate
0461	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Hitch Mount Adapter for Countertop
0462	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Vented Trash Can on Wheels, Left
0463	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Vented Trash Can on Wheels, Right
0464	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Dissection Board, White
0465	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Dissection Board, White w/ 3" Legs
0466	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Dissection Board, Light Blue
0467	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Dissection Board, Light Blue w/ 3" Legs
0468	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Dissection Board, Dark Blue
0469	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Dissection Board, Dark Blue w/ 3" Legs
0470	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Filtration Scheduling & Alert System
0471	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Countertop Dictation Stand, 7x5x8" @ 55 Degree Angle
0472	Tissue-Tek® Accu-Edge® <i>FLEX</i> , 7 inch Shelf for Pegboard
0473	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Cassette Labeling Shelf, Left Side
0474	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Cassette Labeling Shelf, Right Side
0475	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Removeable Countertop inch/cm Scale Label
0476	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Shelf Mounted Single Gooseneck LED Task Light
0477	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Shelf Mounted Dual Gooseneck LED Task Light
0478	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Small Drawer

4. Factory options

0479	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Small Instrument Drawer
0480	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Large Drawer
0481	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Airflow Monitoring & Alert System
0482	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Countertop Hitch Mounted Keyboard

4.3.4 Filters

0501	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Potassium Permanganate Filters for Recirculating 48-inch Configured Grossing Stations; 2 filters/set
0502	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Potassium Permanganate Filters for Recirculating 60-inch Configured Grossing Stations; 2 filters/set
0503	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Potassium Permanganate Filters for Recirculating 72-inch Configured Grossing Stations; 2 filters/set
0504	Tissue-Tek® Accu-Edge® <i>FLEX</i> , Potassium Permanganate Filters for Recirculating 96-inch Configured Grossing Stations; 4 filters/set
0510	Tissue-Tek® Accu-Edge® <i>FLEX</i> , In-Grill Ventilation Particulate Filter for 48-inch Grossing Stations
0511	Tissue-Tek® Accu-Edge® <i>FLEX</i> , In-Grill Ventilation Particulate Filter for 60-inch Grossing Stations
0512	Tissue-Tek® Accu-Edge® <i>FLEX</i> , In-Grill Ventilation Particulate Filter for 72-inch Grossing Stations
0513	Tissue-Tek® Accu-Edge® <i>FLEX</i> , In-Grill Ventilation Particulate Filter for 96-inch Grossing Stations; 2 filters/set

4.3.5 Customization (CUST)

If your factory “Accessory” has been customized the Model No. will show a “CUST” suffix.

4.3.6 Seismic anchoring

Available upon request.

4.3.7 New accessories

New accessories are in constant development.



5. Operating instructions



5. Operating instructions

5.1 How to use the touch screen

5.1.1 Understanding the grossing station operational interface

The design intent of the grossing station is to be highly customizable in its construction to meet all types of process flows and procedural preferences in the pathology lab. The touchscreen display allows for variable user interface controls to support the many configurations available on the grossing station.

CAUTION: The grossing station is equipped with a “Touch” Screen, pressing excessively hard on the screen may result in damage.

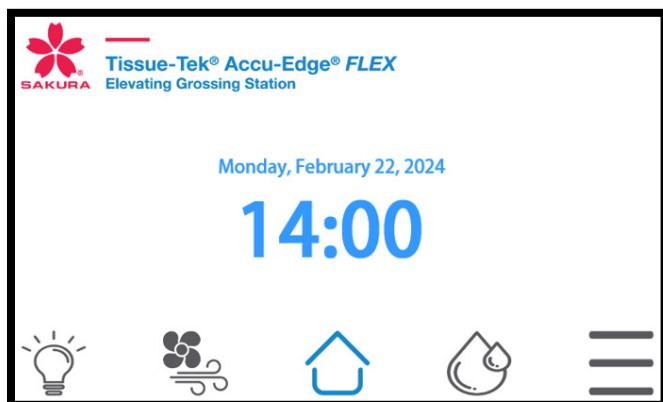


5.1.2 Startup

Turn on the grossing station from the **Power Switch** located on the hood column above the sink side of the unit.



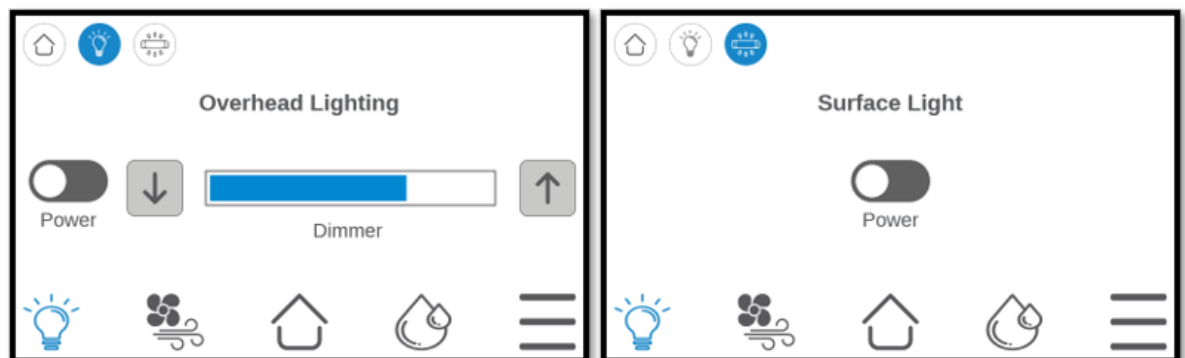
The Home screen is the main page when the unit is powered on. This page provides access to all the sub menus for lighting, ventilation, water timers, and menu button.



The Home screen where the user can quickly navigate to any feature installed on the grossing station. The home page is set up in a manner that categorizes the main features into easily accessible buttons. Starting at the bottom left of the screen there Lighting, Air Flow, Home, Water, and Menu buttons.

5.1.3 Lights button

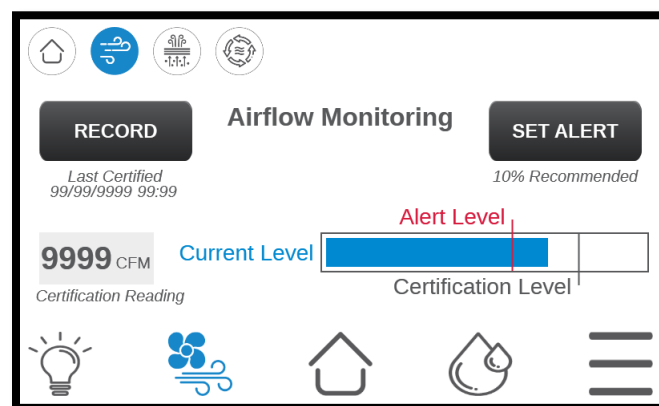
Once the operator selects the Light button, the screen will switch to the Overhead Lighting page. This is where the operator can adjust and turn on the Overhead Lights. The lighting screen consists of Overhead Lighting which can be turned off by selecting the power button on the left side of the screen. Overhead lights can be dimmed to the user's liking and surface lights can be turned on and off to increase visibility on the work surface. Use the Up and Down arrows to increase or decrease the intensity.



If your unit is equipped with a Surface Light, you can press the surface light icon at the top of the page and power the surface light on for additional lighting near the work surface.

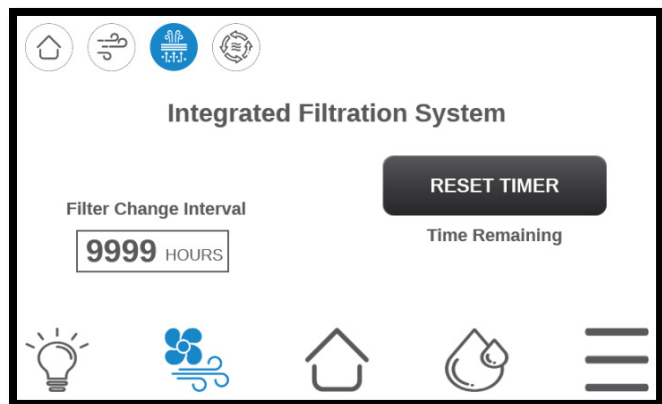
5.1.4 Startup

When the Air Flow button is pressed, the user is taken to the Airflow Monitoring screen. This screen features the current air flow operation, Last Certified Level and date, and the ability to set the alerting level for air flow for the laboratory.



5. Operating instructions

Pressing the middle button at the top of the screen will take the user to the Integrated Filtration System Page. This page is for setting the interval time for laboratory personnel to change their filters. Standards particulate filters and Potassium Permanganate filters require different intervals time, which will be specific for the laboratory use.



A flow sensor is a standard feature on all units. The flow sensor is integrated into the hood of the unit to provide a method to alarm if airflow in the facility has been impeded or adjusted below a set threshold. This setting is only intended to provide an alert. Most Grossing stations are tested and calibrated for air flow by a local HVAC provider annually. This is a perfect time to adjust the Flow sensor setting against a calibrated setpoint.

NOTE: Flow sensor is not a calibrated volumetric air flow device.

- Touch the Login Access button at the top right of the Action Screen. At the login screen select the user drop-down icon then select *Manager*. Select access with passcode "100000 Press OK. This Logs into the Manager setting mode where the Airflow alarm setpoint and alarm triggers can be set.
- Return to the Actions screen and select the Settings button on the upper left to set the flow setpoint.
- With the facility HVAC running you will see the Current Reading, scaled from 0-100. This indicates your current flow setting while the HVAC is running.
- Taking into consideration any variance between the current reading and calibrated setting, set your alarm threshold. Most facilities' actual airflow will vary based on door opening time and frequency to a lab, so it is advisable to set the threshold at least 10% lower than the nominal airflow value.
- If the Current Reading air flow drops below the set Alarm Threshold it will trigger an alarm notification.

NOTE: The Recirculation option is intended for facilities that do not have available HVAC exhaust flow available for temporary use or in limited-use environments.

The backdraft air is pulled through the hood by variable-speed blowers and cycled through filters to remove particulates and fumes before exhausting back into the room at the top of the unit. On the ventilation screen the Recirculation Fan speed can be turned on/off and & increased and decreased with the use of the buttons.

CAUTION



CAUTION: Variable recirculating blowers are loud and operate between 65-82 decibels (dBA). Long-term noise exposure requires hearing protection.

The filter timer function is intended to set a reminder and alert the user(s) when it is time to replace the filters in the system.

- On the Action Page press the Timers Button. The Air Filter timer will then be displayed.
- Pressing the displayed time to the right of the “Air Filter Timer” will allow the user to select a time duration per your specific laboratory conditions to be alerted to when to replace the filters. Note the time will then count down from this set time when the unit is turned on.
- To confirm the set time interval and reset the time remaining, press and hold the Reset button displayed on the Timers screen. Confirm the Time remaining changed to the above set time interval.

NOTE: If facility ventilation remains on while the unit is OFF it is recommended to change pre-filters every 90 days, as the filter timer is not active without power.

5.1.5 Date and time adjustment

To change the Date and Time you must be logged in as a manager (REF 5.1.4) and. Once logged in press the Menu Button then the Gear icon. The time will show up which will be available to change by tapping on the individual numbers to make the change. Pressing submit saves the change.

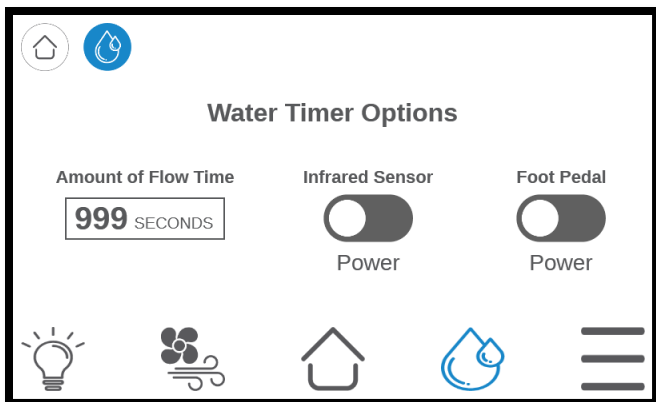
5.1.6 Water timer

The Water Timer Options page displays flow set time and provides a way to toggle ON and OFF the Infrared Sensor and Foot Pedal. Setting the Flow Time can be achieved by selecting the timer box and selecting a required time interval in seconds. time for has two displayed timers and one countdown timer. The timers include the optional Water timer and Air Filter Timer (REF 5.1.4) with a correlated countdown timer. If an option isn't equipped on the unit the timers will display Not Equipped, telling the user that the unit being used doesn't have the option when it was purchased. The water timer is used in conjunction with the foot pedal option

5. Operating instructions

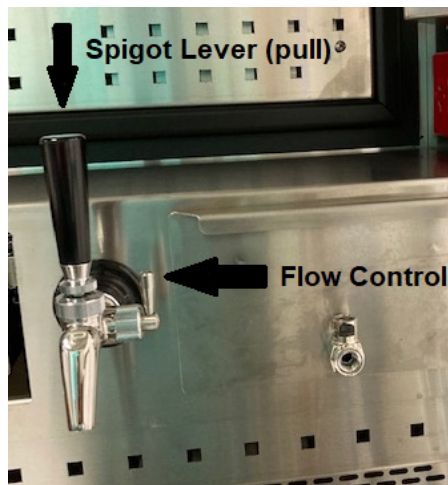
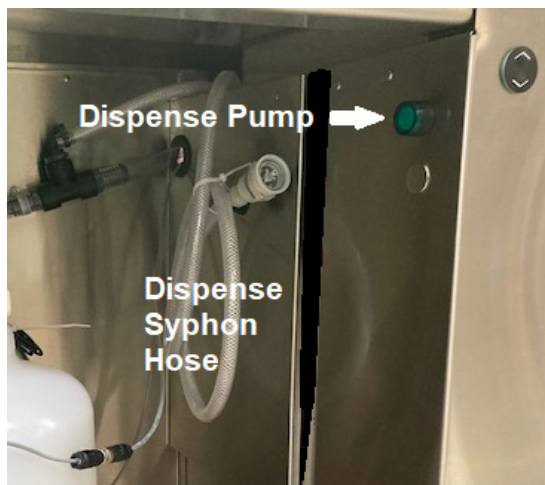
or Infrared sensor option. It controls the amount of time the water solenoid is to stay on after the first tap of the foot pedal or Infrared sensors input. This can be set as a safety timeout, or it can be used to dispense a given amount of water per laboratory process.

- To adjust the Water Shutoff Timer, press the time near Water Shutoff Timer.
- Adjust the time to the desired functional ok time needed and press OK to confirm your intended choice.



5.1.7 Formalin tank level button

- The Syphon Hose is intended to be connected to your formalin supply container (cut factory zip tie to uncoil hose). Most cubitainers utilize a quick disconnect. Insert the connector and pull to make sure it's latched.
- If you are pumping from a formalin barrel remove the supplied quick disconnect fitting and directly insert the end of the syphon hose into the barrel. Watch for bag liners, do not suck them up in the hose.



- To dispense pull the spigot handle. The spigot also has a flow control on the side. Adjust this to your desired flower rate.

5.1.8 Alarm setting button

Once the operator selects the Alarm settings from the Actions home page the screen will go to the Alarm Settings Page. This page contains user selections for alarm notifications. The scrolling bar to the right will allow users to page up and down to see the full list. There are a total of eight features that have alarm functionality. Each feature has the ability for a visual, audible, BMS notification, or the ability to mute the alarm with a selectable duration. Visual notifications will be displayed at the bottom of the screen. Audible notifications alert users by emitting an audible alarm. The BMS (Building Management System) connection is a simple output signal intended to be connected to a hospital remote management system. The last selectable option is the ability to mute a given alarm with an indicated mute duration. By selecting a time interval, the user can set a given interval of time to be muted. Different facilities have different requirements for alarms. Having the option to configure these settings to your specific organization's needs makes it easy to do on the Alarm Settings Page.

5. Operating instructions

5.1.9 Alarm button

Once the operator selects the Alarms button on the Home page you will be presented with a screen showing all the possible alarm conditions. This screen helps notify the user of what function has an active alarm. Near each alarm feature title, there is a gray notification light when the function doesn't have an active alarm. When an alarm is triggered, that LED will turn on by emitting a green LED light. This is an indication that the function has an active alarm and needs to be looked at.

- The *Air flow Alarm* indicates that the current set alarm threshold is below the observed HVAC flow value.
- The *Air Filter Alarm* indicates that the air filter timer has expired, and that it is time to replace the filters.
- *Formalin Collection Full* indicates that the collection container underneath the unit is full and needs to be disposed of per lab procedure.
- *Formalin Dispense low and high* indicated the condition of the Dispensing container.
- The *Formalin Collect Leak Alarm* indicates the leak sensor located in the collection area has observed a fluid leak.
- *Formalin Dispense Leak Alarm* indicates that the leak sensor located in the dispensing area has observed a fluid leak.

Silence any active alarm by pressing the Silence Alarms button. This mutes that alarms for the duration active in the Alarms Setting page. The Alarm History button at the bottom of the page will take users to the Alarm History page. This page displays incrementing counters of all observed Alarms triggered on the unit. The history can be reset back to zero by holding the reset button at the bottom of the page.

5.1.10 User manual button

The User Manual Button takes the users to a screen with a 3D barcode. If users scan the barcode with a smartphone, it will provide a link to a web address having the latest product manual. This can be a great feature to look up how a specific feature functions.

5.1.11 Log-in credentials

Each facility will have its procedural preferences. See (REF 5.1.8) for the different alarm setting functionality and how to enable and disable the various types.

NOTE: When a Manager level alarm setting is changed, they will also appear for all user types.

The Factory login is only to be used at the manufacturing facility to configure units during the manufacturing process or by service technicians in the field. Below are the login credentials for the Operator and the Manager.

Credentials and Passwords

Operator Password = 000000

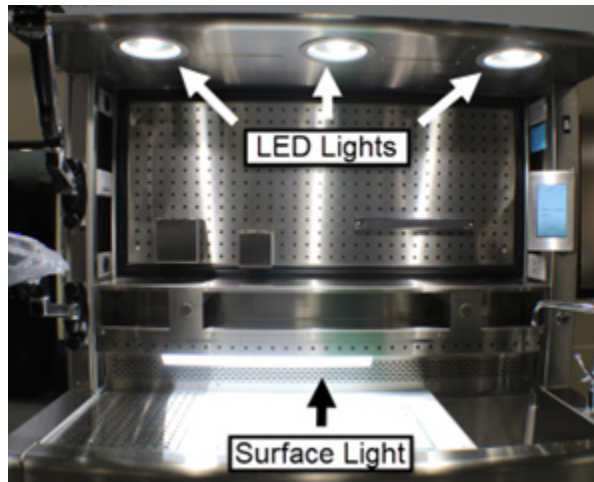
Manager Password = 100000

5.2 to use standard features and options

5.2.1 Lighting (standard)

The grossing stations have recessed LED lights integrated into the hood, and a few supplemental light options are available.

- The overhead LED dimmer is adjustable by touching the *Lights* button on the action screen. The blue bar on left indicates the brightness level and the up/down arrows adjust the setting.
- Optional Surface lighting ON/OFF operations will show on the *Lights* screen as well if equipped.



5. Operating instructions

5.2.2 Elevation (standard)

The grossing station is equipped with an elevation system with approximately 12” (30.4 cm) of travel. This system is controlled through the up/down switch located on the front sink side of the workstation. Simply press the up icon on the button to raise the worksurface and the down icon to lower the station to the desired height.

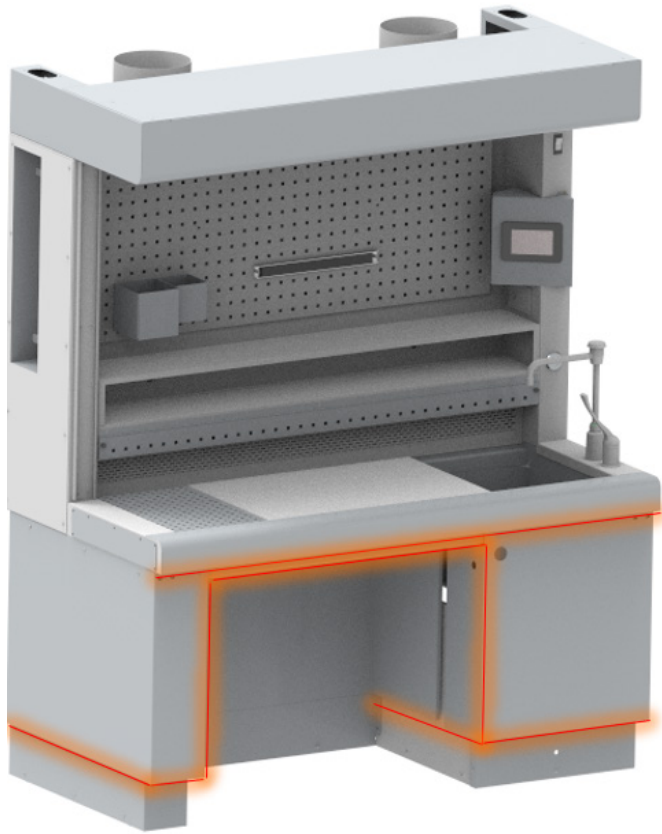


CAUTION: Risk of Pinching or Crushing Hazard. Ensure that hands, fingers, and other body parts are clear of moving parts and mechanisms during operation and adjustment of the elevating workstation. Failure to do so may result in serious injury or amputation.

CAUTION



The grossing station skirting is designed to limit the number of pinch points. The upper skirting overlaps the lower skirting which helps promote a safe workspace while elevating and lowering the workstation. Prior to elevating the workstation verify the upper perimeter is free and clear of any obstructions. Objects below the orange highlighted surfaces can be pinched or crushed during adjustments in elevation. Ensure there are no objects near these surfaces when raising and lowering the workstation.



CAUTION



Keep all objects clear of highlighted areas when adjusting elevation.

5.2.3 Faucet controls (standard)

The unit utilizes a mixing valve to control flow and hot/cold temperature mix. Operation is much like any residential or commercial faucet; rotate the lever up to start the flow and push or pull the lever to mix the hot and cold.

NOTE: If your unit is optioned with a foot pedal or infrared-activated solenoid valve the mixing valve settings still apply, but nothing will flow out of the faucet until one of the other user inputs is activated.

5. Operating instructions

5.2.4 Food pedal (faucet) option

The Foot Pedal option controls the on/off for mixed water to the faucet.



Foot Pedal



Hot/Cold Mixing Valve

- The foot pedal is mounted to a floor plate that can be positioned within reach by the user.
- A single tap of the pedal turns the hot/cold mixed water on.
- Tap the pedal a second time to turn it off.
- To adjust the water timer valve interval (REF 6.1.5).

NOTE: The foot pedal controls a solenoid valve that is between the Mixing Valve and the Faucet, if the mixing valve lever is NOT lifted into an open position water will NOT flow when you tap the foot pedal.

5.2.5 Infrared faucet control “Hands-Free” option

The hands-free faucet is controlled by an infrared switch located on the hood column near the disposal switch.

Infrared Faucet Control



- If you wave your hand near the IR sensor, the system will turn on the water solenoid to the faucet.
- Mixed water is still controlled by the hot/cold mixing lever, and it must be rotated up and on for water to flow.
- The water will flow for the time set on the Water Shutoff Timer function mentioned (REF 5.1.5).

5. Operating instructions

5.2.6 Hand spray option

The hand spray option is installed opposite the sink and is intended to spray down the grid plate and cutting board surfaces.

- The hand spray option comes with a hot/cold mixing valve that must be rotated up and on for it to work.
- Simply squeeze the hand spray trigger to spray mixed water. The flow rate can be adjusted by both the trigger and the mixing valve.

Hand Spray →



5.2.7 End rinse option

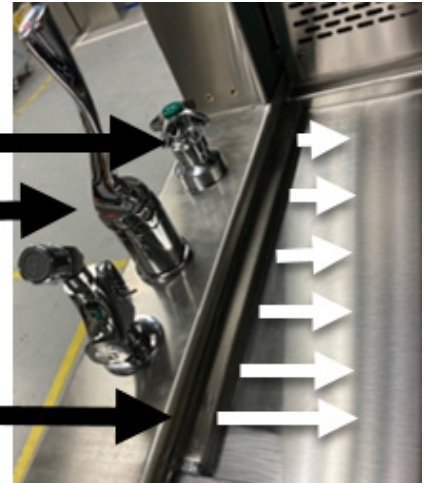
The End Rinse option is installed opposite the sink and utilizes the hand spray hot/cold mixing valve but has a separate flow control valve.

- Adjust the hot/cold Mixing Valve to the desired mixture. It is recommended to open the mixing valve up all the way. Flow can be adjusted separately at both the hand spray and end rinse control knob.
- Adjust the End Rinse Control Knob to the desired flow.
- Use the Mixing valve lever to turn the end rinse on and off.

Flow Control Valve

Hot/Cold Mixing Valve

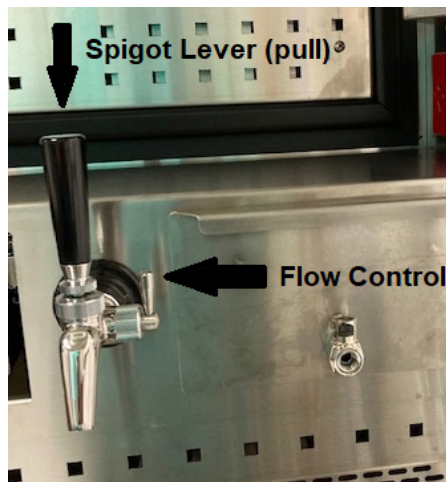
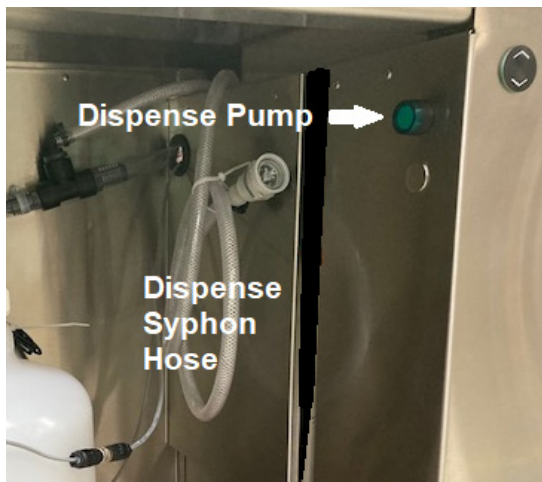
End Rinse



5. Operating instructions

5.2.8 Formalin dispensing option

- The Syphon Hose is intended to be connected to your formalin supply container (cut factory zip tie to uncoil hose). Cubitainers that utilize a quick disconnect are recommended. Insert the connector and pull to make sure it is latched.
- When pumping from a formalin barrel remove the supplied quick disconnect fitting and directly insert the end of the siphon hose into the barrel. Watch for bag liners, do not suck them up in the hose.



- To dispense pull the spigot handle. The spigot also has a flow control on the side. Adjust this to your desired flow rate.

5.2.9 Formalin collection option

The Formalin Collection system is also a gravity system that drains from the collection funnel down to a carboy located on a dolly in the knee space. This will be behind the cabinet doors if your grossing station has that option.

- Pour off formalin waste into the collection funnel, located in the back corner of the sink.

NOTE: The funnel is necked down to help prevent solids from plugging into the collection line. If desired, the manufacturer does offer screens (**BA077**) for the funnel to help collect solids.

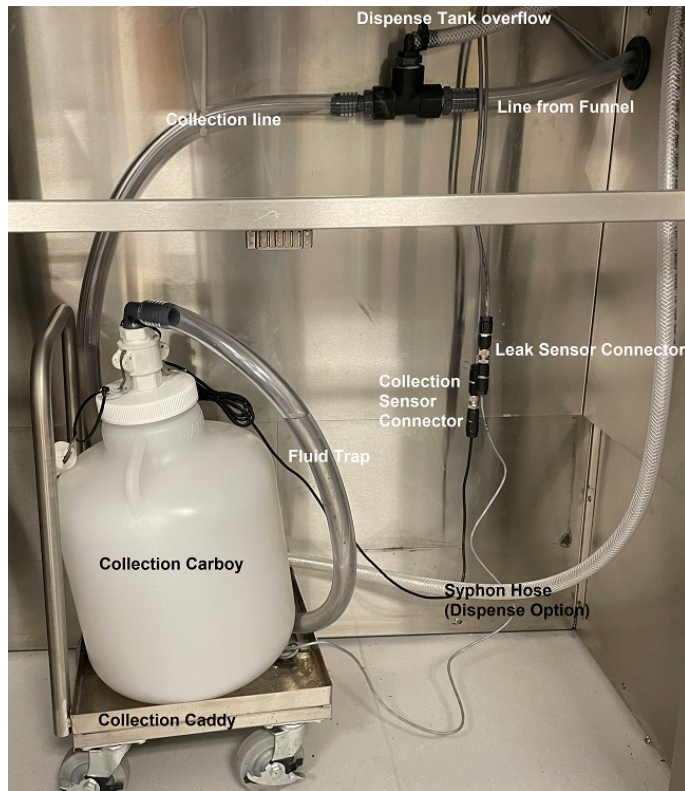


BA077



- The system will drain down and into the collection carboy. The carboy cap is equipped with a sensor and will indicate via an alarm message when the system is full.
- The drain hose is supplied long enough to allow the collection dolly to be pulled out from under the knee space before disconnecting. This will create a small fluid trap if left at the factory cut length on the collection line.
 - If your preference is to eliminate the fluid trap, simply trim the line back short enough that the fluid drains completely into the carboy. You will have to bend down into the knee space to disconnect now.

5. Operating instructions



- Unscrew the carboy cap and remove the carboy for disposal. If you prefer to wheel the collection caddy to the disposal site, you will have to disconnect the fitting and unscrew both the leak and collection sensors shown above.

5.3 What to do in an emergency and in exceptional situations

First, follow your laboratory safety procedures. Reference the below protocol for unit situations.

- Suspected electrical issue.
 - Turn off the main power switch. Any faucets or fixtures that are controlled by solenoids will close automatically.
 - Turn off the unit's facility breaker if further electrical issues are detected.
- Suspected plumbing issue.
 - Turn off all water fixtures, typically the mixing valve levers will do this.
 - Turn off the End Rinse or Foot pedal if the leak continues.
 - Turn off the facility water supply to the unit if further plumbing issues are detected.
- Air Flow Alert
 - Check for facility flow, and alert laboratory management.



6. Care and maintenance



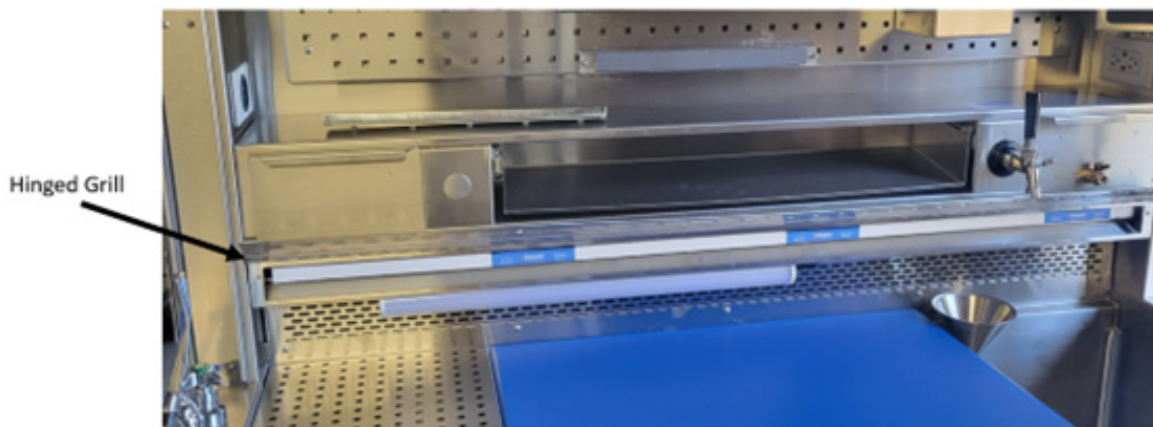
6. Care and maintenance

6.1 Care and maintenance

NOTE: Only one filter can be utilized at any one time, depending on the type of Grogging Station ventilation system.

6.1.1 Changing the In-Grill Ventilation Particulate Filter

The Filter is seated inside the front grill. Remove all accessories from the hinged grill. Accessories on the upper pegboard are not required to be removed in this process and may stay attached. On either side of the hinged grill will be two thumb screws that are to be removed by hand. Once the fasteners are removed the hinge can be lifted giving access to the filter carrier. Pull the filter out and dispose of the used filter. Vacuum any debris in the filter carrier with a vacuum attachment and replace it with a new filter.



The new filter will slide in and rest behind the grill. Once installed close the filter hinge and re-install the two thumb screws on each end. The filter change interval will vary depending on cleanliness of the incoming air. The best practice is to change filters quarterly.



NOTE: Depending on your model the unit may have 1 or 2 filters (REF 2.3.3).

CAUTION



CAUTION: clogged or neglected in-duct filters will negatively affect performance of the ventilation and does require an established interval for replacement.

6.1.2 Changing the Potassium Permanganate Filters for Recirculating Grossing Stations

NOTE: See images in 6.1.1 to locate the area where to change the filter. Same location for both types of filters.

- Filter change frequency is based on laboratory HVAC settings and Formalin fume exposure and therefore variable in life. Even without use, once a filter has been installed it should be changed at least once per year. Failure to replace filters increases the risk that your recirculating unit will not provide appropriate protection from hazardous materials.
- Recirculation filters are filters for recirculation equipped units. The filters are made of Potassium Permanganate that absorbs and neutralizes formaldehyde fumes. The filter is disposable.
- For changing the filters (REF 6.1.1). The process is performed the same way as in-duct filter replacement.
- Depending on your model the unit may have 2 or 4 filters (REF 2.3.4).

NOTE: Use latex or nitrile gloves when removing the filters. All replacement filters will use a **Potassium Permanganate Filter**.

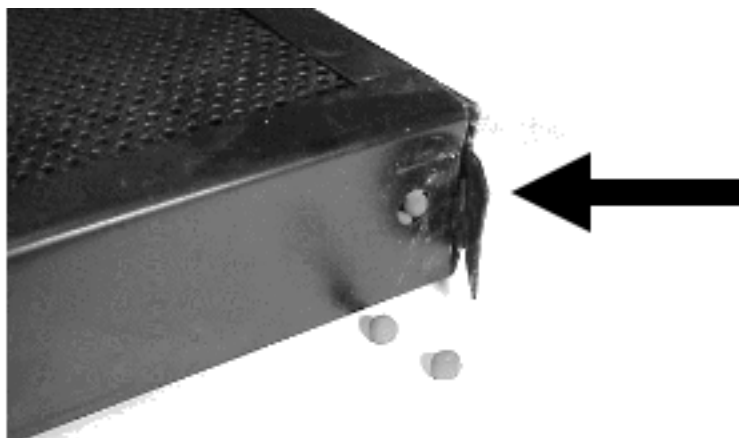
- Install the new filters with the white side down and black mesh up top.
- Close the filter door and tighten the thumb screws.
- After a filter change the station should be checked that the ventilation isn't impeded. A reduction in flow indicates an improper filter installation and the steps above will require repeating.

6.1.3 Checking the potassium permanganate filters

Filter life is dependent on the amount and concentration of formalin fumes passing through it. This section describes how to check a Potassium Permanganate filter so that a proper filter life can be predicted and planned in a lab.

- The potassium permanganate (KMnO_4) filters change color from bright purple to dark brown with the amount of exposure. To check this please remove a used filter (REF 6.1.1).
- Pry open the corner of the filter and dump out some pellets for examination.

6. Care and maintenance



- To determine if the potassium permanganate has been exhausted remove a pellet and cut it in half.
- With the pellet on a white paper towel add a few drops of water to the pellet. The water running off the pellet should be purple and then turn a deep iodine color.
- The filter should be considered 80% used when the purple color diminishes from the core of the pellet and 100% depleted if there is no color present.

NOTE: use this pellet examination method only in typical laboratory conditions. Highly concentrated solutions or excessive formalin pouring operations will prematurely deplete the pellets and give a false sense of filter life.

6.1.4 Health hazard information and disposing of filters

Health Hazard Data - Alumina Permanganate Filter Media

- Effects of Exposure – The filter media is non-toxic upon oral, skin, and inhalation exposure and is non-irritant to the skin. Breathing dust may cause sneezing. The skin may feel dry after contact. The filter media is an eye irritant.
- Emergency Treatment – Flush eyes with large quantities of water and seek medical attention.

Filter Disposal - Dispose of contaminated filters per your facility, state, and federal procedures for hazardous materials disposal. See the SDS for the chemicals exposed to the filters for further directions.

6.1.5 Resetting/leveling the elevation system

Should your station become unlevel for any reason follow the steps below to reset the elevation system. An unlevel elevation system can cause objects to roll off the worksurface or cause fluids to not drain properly.

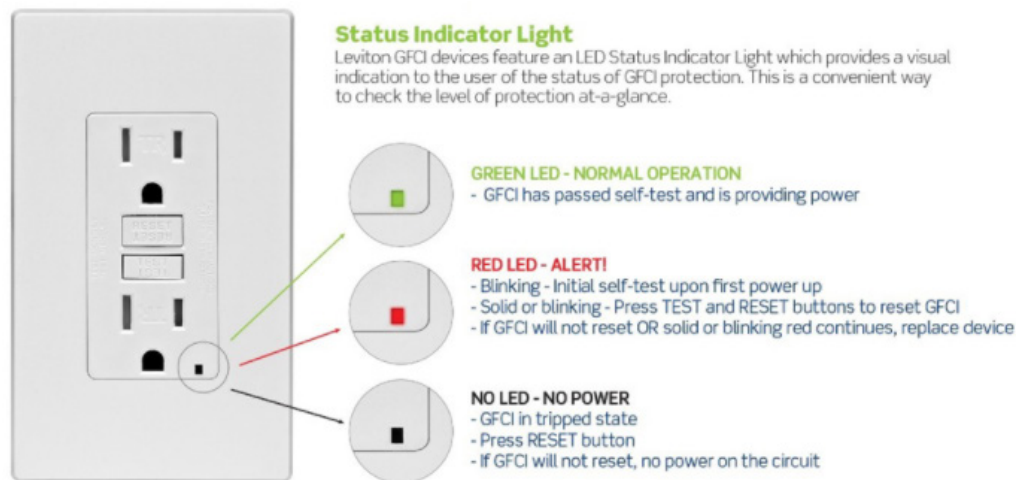
- Press and **hold** both the up/down arrows at the same time.



- While holding both buttons, the unit will then move to the lowest position and synchronize and level out.
- Continue to hold for another 3 seconds and then release both buttons.
- Adjust the unit up and down and confirm the unit has remained level. Repeat the reset procedure multiple times if you suspect it has not fully leveled out.
- Verifying the unit is level at all heights confirms the unit is elevating properly.

6.1.6 Resetting the main GFCI

Should the unit trip the Main GFCI; the controls, touch screen, and auxiliary power outlets will no longer be powered. First, check that your unit has tripped by referencing the image below.



NOTE: The GFCI will only reset if power is supplied to the station. Check that your Main Power switch is on and that your facility's circuit breaker is not tripped.

6. Care and maintenance

- Press the TEST and RESET buttons on the GFCI and confirm operation or status lights per the diagram above.
- If the GFCI has reset and shows a green light the unit is ready to operate.
- If the GFCI fails, there may still be a ground fault in the system or the GFCI unit may need to be replaced. See the section on Troubleshooting (REF 7.0).

6.1.7 Resetting the auxiliary GFCI

The unit is equipped with an auxiliary 15A GFCI power outlet for uninterrupted supply on a computer system or other auxiliary devices plugged into the side panel. For this, the unit only needs power supplied to the unit from the facility and operates independently from the Main power switch. The reset procedure is the same as (REF 6.1.6).

6.2.1 Disinfecting stainless steel

All stainless steel surfaces can be cleaned with soap and water to remove tissue and debris. The unit is to unit is to ONLY BE WIPED DOWN & not sprayed (worksurface/sink is only part of station that can be sprayed). The stainless steel surfaces can be disinfected with a non-caustic disinfectant.

- Always wipe in the direction of the stainless steel grain.
- Most disinfectants must be followed up with a water rinse to remove the salts that remain after these products dry. Always follow up a disinfection cleaning with a thorough rinse of water.
- DO NOT USE a straight bleach solution to clean your unit. Bleach will eventually erode stainless steel if not thoroughly rinsed.
 - Erosion from chlorine bleach is detectable and will void the warranty.
 - If your process must use chlorine bleach it must not exceed 10% and must be rinsed immediately after disinfection to avoid damage to the metal.

6.2.2 Stainless steel care and maintenance

To maintain your stainless steel product, follow these steps:

- Rinse the surfaces with water frequently.
- Do not touch the surfaces with oily hands.
- Always use soft abrasive fine grit pads to clean grime in the direction of the metal grain.
- Once clean, condition your stainless surfaces with WD40 lubricant or stainless steel polish.

6.2.3 Use of DECAL

When a Decal solution is used a brown rust ring along with a milky white substance can deposit on the surface. Decal is very harsh, even the fumes can cause staining on stainless steel. Consider placing the Decal container you currently use inside a plastic base that will help catch drips that might occur.

- Clean and rinse your station after every use of the Decal solution.

6.2.4 Rust and oxidation formation

Rust can and will occur on stainless steel if it is not maintained properly. The most common cause of rust is from using a ferrous material on or near the unit. This is referred to as "transfer rust". Salts from cleaners or disinfectants can extract ferrous materials and deposit or transfer them to stainless steel. Always rinse all disinfectants before they dry. Decal solutions and fumes are very aggressive and can deposit rust if not cleaned. Formalin use has not been shown to cause rust, but it does contain salts and therefore can deposit rust.

There are a few ways to remove rust should it develop.

- Vinegar – Pour White Vinegar on the rust and let it soak for 5 minutes. Scrub with a soft brush (like a toothbrush) Rinse with water and wipe dry.
- Lemon Juice & Baking Soda – Mix equal parts of each into a paste and spread over the affected area. Let it set for 30 minutes before washing away with a damp sponge. Repeat as necessary.
- Rust Remover – as a last resort try a chemical cleaner like Magica Rust Remover **Magica Rust Remover | Best Rust Removal Products**, and follow the instructions.

6.2.5 Scratch repair

A surface scratch can be repaired using the following technique. Completely removing the scratch will depend on how severe it is.

- Use 120 grit emery cloth or paper and firm pressure to sand the scratch.
- Sanding must always go in the direction of the grain. Sand in a perfectly straight line, avoiding the natural tendency to sand in an arc. Sand the surface until the scratch is gone.
- Polish using a very fine grade of 3M scotch-brite pads. Use the same motions as with sanding. Polish the surface until the original finish is restored.

6.2.6 Fingerprints and solvent cleaning

The most common surface contaminants that occur from normal use are fingerprints and mild stains. These usually affect only appearance and do not

6. Care and maintenance

affect corrosion resistance. They can easily be removed by a variety of simple cleaning methods.

- Fingerprints can be removed with a common glass cleaner or by gently rubbing with a paste of soda ash (sodium carbonate) and water which would be applied with a soft cloth. It is best to follow with a warm water rinse.

Have the following information available BEFORE you call from your station ID tag or original order or quote. Reference the ID tag located in the knee space.

- Product Model Number:
- Product Serial Number:



7. Troubleshooting



7. Troubleshooting

7.1 Troubleshooting chart

WARNING: The troubleshooting section is for reference only. Repairs are made by licensed electrician or plumbing professional and shall follow proper facility safety protocols and a Lock out tag out Procedure.

WARNING



ERROR/ISSUE/FAILURE	CAUSE	SOLUTION
Power up failure		
My Station does not turn "ON"	G.F.C.I. has been tripped	Reset G.F.C.I. There are two per station. One is above the shelf, and one in the "Cord Wrap" area on the side of the machine. <i>NOTE: The station must have the main power "ON" to reset GFCI.</i>
	The facility breaker has been tripped	Reset facility breaker
	Power system short	Check connections at the wire whip or power cord and plug the connector. Disconnect power check circuits & harness connections (REF 8.2)
Elevation failures		
My Station does not elevate	Station not turned "ON"	Turn station "ON" at main power switch
	G.F.C.I. has been tripped	Reset G.F.C.I. (station power must be "ON")
	Elevation system needs to be reset	Reset elevation system (REF 6.1.5)
	Damage to Elevation system	Replace linear actuator control box & button
	Actuator unplugged	Check that all actuators are connected to the control box.
Station tilting towards side, front or back	Station not leveled correctly	Check leveling feet Check for obstructions limiting travel in and around the station
	Station elevation system sagging or drifting	Check for excessive weight on the unit in the direction of the tilt

		Reset elevation system (REF 6.1.5) Replace linear actuator nearest tilt (operate in lowest position pending service)
Water Fixture Failures		
My station's faucets do not work	Facility water turned "OFF"	Turn "ON" facility water supply
	Mixing valve (pressure/temp control turned "OFF")	Turn mixing valve "ON"
	Water system plugged	Check Y Strainers for debris. Check for kinked supply lines. Check backflow prevention devices. Please contact Sakura Finetek Technical support for assistance.
	Units equipped with a proximity sensor or foot pedal option utilize an electric solenoid to turn the water ON.	Water timer must be set to a desired interval in minutes (REF 5.1.6) The mixing valve must be opened. Press the foot pedal or activate the proximity sensor to open the water valve. Flow will then be turned off when the water timer lapses/foot pedal is pressed/ or the proximity sensor is deactivated.
My foot pedal will not cause water to dispense	Mixing valve (pressure/temp control turned "OFF")	Turn mixing valve "ON" and leave "ON"
	Water timer set to "0" minutes	Set water timer to 1 minute or above (REF 5.1.6)
	Foot pedal air hose Disconnected from Air switch	The air switch is accessible in the electrical panel at the bottom. Access the air hose connection and locking ring from the rear of the unit or by removing the upper skirting and reaching under and behind the electrical panel.

7. Troubleshooting

		Remove the locking ring on the back and pull the switch inside the electrical cabinet. Test the continuity of the switch, check for air leaks, and check that the hose is connected and fully seated. Use the pedal to test the opening and closing of the mechanical switch. Replace if inoperable. Reinstall components in reverse order. Please contact Sakura Finetek Technical support for assistance.
My hand rinse or end rinse are not working	Hand spray hose kinked	Un-kink hand spray hose Check in lower skirting for interference
	Mixing valve "OFF"	Turn mixing valve "ON"
	Gate valve for end rinse "OFF"	Turn gate valve "ON"
	Water system plugged	Check Y Strainers for debris. Check for kinked supply lines. Check backflow prevention devices. Please contact Sakura Finetek Technical support for assistance. Clean end rinse orifice with small pick to dislodge debris.
Station is leaking water	Leak at facility connection	Check strainer drain plug Check flex lines from strainer. Check drain line connection. Check P-trap to facility connection.
	Leak internal to station	Shut off all mixing valves and turn off hot/cold separately to isolate leak circuit. Please contact Sakura Finetek Technical support for assistance. Service water lines & connections. Please contact

		Sakura Finetek Technical support for assistance.
Lightning		
No lights will come on	G.F.C.I. has been tripped	Reset G.F.C.I. (station power must be “ON”)
Individual 7” overhead light not working	Bad Light driver or loose connection at driver	Check for loose connection at driver, replace if necessary
	LED failure	Replace LED light
Surface light not working	Surface light not turned “ON” in touch screen	Turn surface light “ON” in touch screen Lighting menu screen
	Power supply issue	Check connections at harness for LED Check connections at distribution blocks/DIN Check DC power supply function/output
	LED failure	Replace fixture
Shelf-mounted task light not working	Power switch in light base not turned “ON”	Turn power switch in light base “ON”
	LED failure	Replace fixture
Hanging task light not working	Power switch in light head not turned “ON”	Turn power switch on back of light head “ON”
	LED failure	Replace LED light head
Lights are too dim or bright	Brightness set too dim.	Adjust brightness to user preference in Light menu on the touch screen
	LED driver issue	Check connections in hood at driver. Check driver output. Replace driver.
Garbage disposal		
	Disposal is jammed	Turn off facility breaker and remove jam. Please contact

7. Troubleshooting

		Sakura Finetek Technical support for assistance.
Garbage Disposal/Garburator not working	Facility breaker is tripped	Reset facility breaker
	Breaker on disposal itself is tripped	Press reset button (REF 6.1.6)
	Air hose disconnected from button to air switch	Reconnect hose to both button and switch
	Disposal has locked up/failed	Replace disposal
Formalin dispensing/transfer pump system		
Pump shuts off when I press the green button	User not pressing and holding button to transfer formalin	Press and hold green button to transfer formalin
	System/internal storage tank is full. Pump is automatic turned off to prevent overflow	Dispense formalin inside internal storage tank and refill as needed.
Pump will not transfer any more formalin/stops while pumping	System/internal storage tank is full	Use formalin inside internal storage tank
Pump will not pump fluid	Pump is clogged	Clean out salt deposits in pump. Replace pump if damaged
	Internal float switch stuck or bad	Clean salt deposits on float switch or replace internal float switch
	Green Button is bad	Replace green button
Alarm Screen Say "Formalin Dispense Low" at bottom of screen	Internal Formalin storage Tank is low	Add formalin to internal tank using transfer pump
Formalin Dispensing Leak alarm is present (sensor #1, inside station, beneath formalin storage tank)	There is a formalin leak or sensor is faulty	Repair leak & clean sensor of fluid or replace faulty sensor
Formalin collection system		

Formalin Collection Full alarm	Formalin collection Jug/Carboy is full	Empty formalin Jug/Carboy
	Float switch disconnected	Plug float switch into station. Check wires in connector are not pulled out
	Float switch “bulb” is stuck in the “full” (up) position	Unscrew cap on Jug/Carboy and make sure metal “bulb” on float switch can move up and down the rod without getting stuck. Or replace float switch. Keeping the system full reduces the
		Keeping the system full helps eliminate buildup on the float sensors.
Formalin Collection Leak alarm is present (sensor #2 (sensor #2, located in formalin collection cart)	Sensor disconnected	Plug sensor into station. Check wires in connector are not pulled out
	There is an active leak/spill in the bottom of the cart	Repair leak & clean sensor of fluid or replace faulty sensor
Alarm Buzzer Notification		
Alarm buzzer is ON	Check alarm screen at the bottom of the screen for alarm identification or Press the Alarms button on the Action page.	Identify alarm cause and correct the alarm condition.
	Press Alarm Setting button on the Actions page	Identify alarm cause and correct the alarm condition. Verify which alarm condition has audible notification and set them according to Laboratory preferences.

7. Troubleshooting



8. Service information



8. Service information

8.1 When there is a problem with the instrument

When a problem occurs during operation of the Tissue-Tek Accu-Edge *FLEX* Grossing Station, refer to Section 7, TROUBLESHOOTING, to determine the most likely cause of the malfunction and to obtain recommended corrective actions. (Avoid problems by carefully following proper operating and maintenance procedures described in this manual). If a problem cannot be solved and an instrument failure is apparent, our Technical Support Department is available to assist.

Before calling for instrument service, please have product code, installation date, warranty period, serial number ready for our Technical Support Representative. For your convenience and reference, record this information in the blanks below.

Product code _____

Installation date _____

Warranty period _____

Serial number _____

8.1.1 Where to call for service

If located within the United States or Puerto Rico, contact the Technical Support Department of Sakura Finetek USA, Inc. by calling toll free:
1-800-725-8723, menu option “2”.

If located within Canada, contact Somagen Diagnostics by calling:
1-800-661-9993.

In countries other than the United States, Canada, or Puerto Rico, contact the nearest authorized Sakura Finetek instrument distributor or representative for service information and assistance.



9. Consumables



9.1 Consumables

9.1.1 Consumables chart

Product code	Product name
4781	Tissue-Tek® Accu-Edge® Autopsy Knife Handle
4782	Tissue-Tek® Accu-Edge® Autopsy Blade 100 mm; 5/box
4783	Tissue-Tek® Accu-Edge® Autopsy Blade 170 mm; 5/box
4784	Tissue-Tek® Accu-Edge® Brain Blade 325 mm; 5/box
4785	Tissue-Tek® Accu-Edge® Trimming Blades, Short (5 inches); 50 blades/box
4786	Tissue-Tek® Accu-Edge® Trimming Handle, Short Straight
4789	Tissue-Tek® Accu-Edge® Trimming Blades, Long (10 inches); 50/box
4790	Tissue-Tek® Accu-Edge® Trimming Handle, Long Straight
4791	Tissue-Tek® Accu-Edge® Dissecting Scalpel Handle
4792	Tissue-Tek® Accu-Edge® Dissecting Scalpel Blades #61, Curved tip; 20 blades/case
4793	Tissue-Tek® Accu-Edge® Dissecting Scalpel Blades #62, Pointed tip; 20 blades/case
4794	Tissue-Tek® Accu-Edge® Replaceable Blade Scissors
4795	Tissue-Tek® Accu-Edge® Replaceable Scissor Blades, Sharp/Sharp; 5 sets of blades/box
4796	Tissue-Tek® Accu-Edge® Replaceable Scissor Blades, Sharp/Blunt; 5 sets of blades/box
4797	Tissue-Tek® Accu-Edge® Replaceable Scissor Blades, Blunt/Blunt; 5 sets of blades/box
4800	Tissue-Tek® Accu-Edge® Grossing Board; 1 grossing board, 1 each 1.5, 2.0, 2.5, 3.0 mm depth gauges and 2 tissue tampers/kit
4802	Tissue-Tek® Accu-Edge® Grossing Wells; 1 grossing wells platform, 1 each 1.5, 2.0, 2.5, 3.0 mm depth gauges and 2 tissue tampers/kit
4803	Tissue-Tek® Accu-Edge® Grossing Fork, 1.5 mm; 1 each grossing fork, 1.5 mm and cleaning brush/kit
4804	Tissue-Tek® Accu-Edge® Grossing Fork, 2.0 mm; 1 each grossing fork, 2.0 mm and cleaning brush/kit
4807	Tissue-Tek® Accu-Edge® Grossing Fork, 2.5 mm; 1 each grossing fork, 2.5 mm and cleaning brush/kit
4814	Tissue-Tek® Accu-Edge® Cleaning Brush; 10 brushes/box
4846	Tissue-Tek® Accu-Edge® Tamper Set; 2 tampers/box
4847	Tissue-Tek® Accu-Edge® Gauge Set; 1 each 1.5, 2.0, 2.5, 3.0 mm depth gauges/kit

4848	Tissue-Tek® Accu-Edge® Grossing Wells, Left handed; 1 Grossing Wells Platform; 1 each 1.5, 2.0, 2.5, 3.0 mm depth gauges and 2 tampers/kit
9150	Tissue-Tek® Accu-Edge® Formalin Neutralizer Starter Kit
9151	Tissue-Tek® Accu-Edge® Formalin Neutralizer; 16/case
9152	Tissue-Tek® FormaGO® Formaldehyde Analysis Kit; 2 reagent bottles, 100 strips
9154	Tissue-Tek® FormaGO® Formalin Absorption Wipes; 100/case
9155	Tissue-Tek® FormaGO® Formalin Absorption Pads, Small; 1,000/case
9156	Tissue-Tek® FormaGO® Formalin Absorption Pads, Medium; 200/case
9157	Tissue-Tek® FormaGO® Formalin Absorption Pads, Large; 100/case
9158	Tissue-Tek® FormaGO® Formalin Absorption Granules; 2/case
9159	Tissue-Tek® FormaGO® Formalin Neutralizer Container
1455	Tissue-Tek® Feather® F-80 mini Handle
PI-HDI	PAXcamHD Motorized Gross Imaging Camera System (1080p)
PI-HD4KI	PAXcam4K Motorized Gross Imaging Camera System (4K)
PI-MM	PAXcam Flex Arm Mount Plus Kit for Tissue-Tek® Accu-Edge® FLEX Grossing Stations

9.1.2 Cassettes

The following are links to the cassettes available.

Tissue-Tek® Uni-Cassette® System

[Tissue-Tek Uni-Cassette System](#) | [Tissue Cassette](#) | [Sakura Finetek USA](#)

Tissue-Tek® Paraform® Sectional Cassette System

[Histology & Pathology Cassettes](#) | [Tissue-Tek Paraform Cassettes](#)

Tissue-Tek® Processing/Embedding Cassette System

[Tissue Embedding & Processing Cassette](#) | [Sakura Finetek USA](#)

Tissue-Tek® Mega-Cassette™ System

[Tissue-Tek Mega-Cassette](#) | [Mega Cassette Histology](#) | [Sakura Finetek USA](#)

Histo-Tek® Cassette System

[Histo-Tek Cassette System](#) | [Specimen & Biopsy Cassettes](#)

10. Glossary



10. Glossary



10. Glossary

10.1 Glossary table

Term	Meaning
Grossing	Gross examination process by which pathology specimens are inspected with the bare eye to obtain diagnostic information while being processed for further microscopic examination.
Pathology	The science of the causes and effects of diseases, especially the branch of medicine that deals with the laboratory examination of samples of body tissue for diagnostic or forensic purposes
Decal	Refers to decalcification agents used as a technique for removing minerals from bone or other calcified tissue. Typically strong acids, weak acids or ethylenediaminetetracetic acids(EDTA).
Garborator	Alternate term for Garbage Disposal
GFCI	Acronym for Ground Fault Circuit Interrupt. Safety device that senses the slightest amount of current across the hot input side and the neutral side of the output on a power outlet in an effort to protect a user from electrical shock.
VOC	Acronym for Volatile Organic Compounds, an organic chemical compounds that evaporate easily at room temperature.
Cubitainer	A semirigid cubical plastic container typically used within a cardboard box. Commonly used to store Formalin.