



Quick Reference Guide

Tissue-Tek® VIP® 6 AI

Start Up

The VIP-6 AI is a self-contained, automatic, tissue processor used to process tissue specimens overnight as well as during the day.

System preparation for processing

Log on to the system as administrator (default password 100000)

System set-up

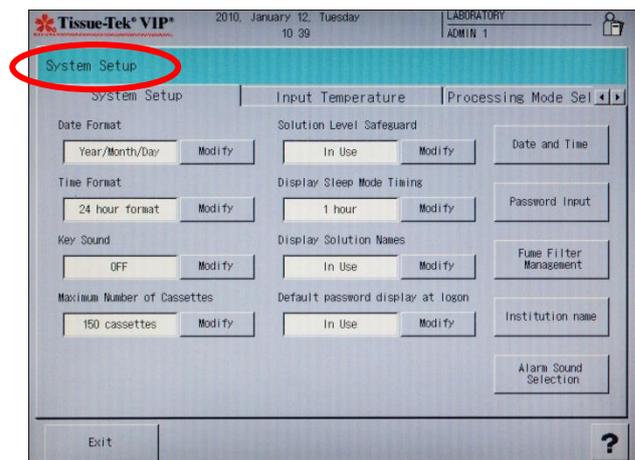
1. Touch **[menu]**
2. Touch **[utility menu]**
3. Touch **[system setup]**
4. Choose the settings (see screenshot) by touching the required buttons
5. Choose **[exit]** when set-up is completed

Edit solution names/ configurations/ programs:

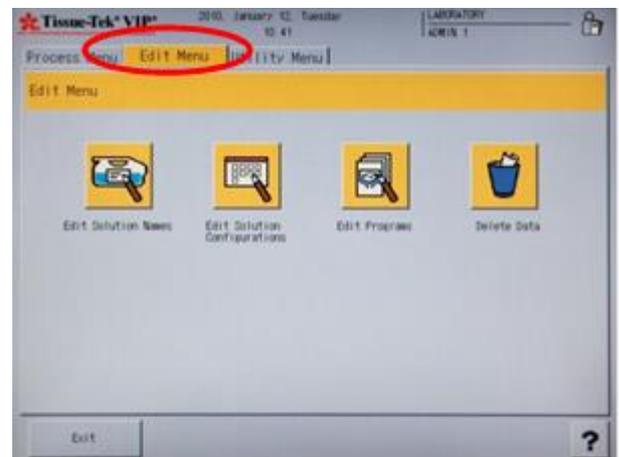
1. Touch **[menu]**
2. Touch **[edit menu]**

Edit/add Solution names

1. Touch **[edit solution names]**
2. Touch **[add solution name]**
3. Touch keyboard to enter a new solution name (up to 22 characters)
4. Touch **[edit solution]** to save the solution names
5. Touch keyboard to enter an abbreviated name (up to 8 characters)
6. Touch **[edit abbreviated solution]**
7. Choose **[cancel]** when editing solutions is completed



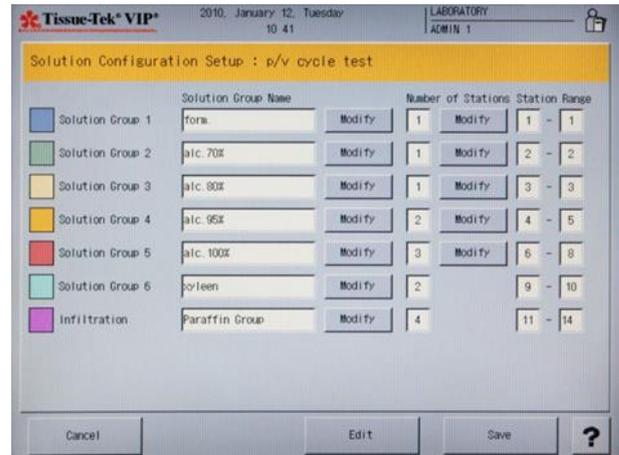
System set-up



Edit Menu

Edit/add Solution Configuration

1. Touch **[edit solution configuration]**
2. Touch **[add solution configuration]**
3. Touch keyboard to enter a new solution configuration (up to 22 characters)
4. Touch **[edit solution configuration]** to save the configuration
5. Adjust solution group name **[modify]**
6. Adjust number of stations in the group **[modify]**
7. Touch **[edit]**
8. Touch station and choose **[solution name]**, **[station color]**, **[management method]**, and **[bulk reservoir supply]**
9. Repeat this for every station
10. Touch **[save]** twice



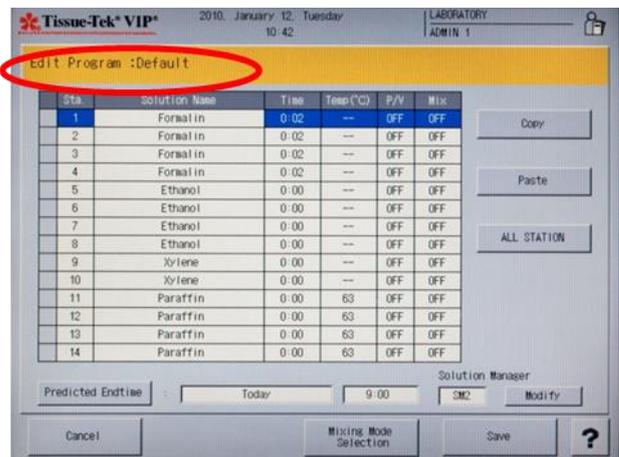
Solution configuration set-up

Edit/add Programs

1. Touch **[edit programs]**
2. Touch **[add program]**
3. Touch keyboard to enter a new program name (up to 22 characters)
4. Touch **[edit program]**
5. Select solution configuration
6. Adjust time, temperature, P/V cycle and mix by touching the screen

Note: mixing mode and P/V settings can be set-up by touching the **[mixing mode]** button

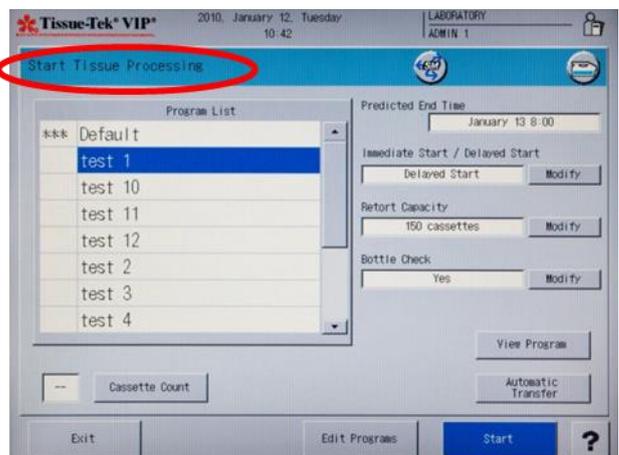
7. Adjust **[predicted end time]**
8. Adjust solution manager **[SM1, SM2 or off]**
9. Touch **[save]**



Edit/add program

Starting tissue processing

1. Log on to the system as administrator or user
2. Touch **[tissue processing]**
3. Choose a program from the program list
4. Choose immediate start or delayed start **[modify]**
5. Choose retort capacity 150 or 300 cassettes **[modify]**
6. Bottle check yes/no **[modify]**
7. Touch **[start]**



Tissue processing

To discontinue a program

1. Touch **[Pause]**

Note: Vip-6 preparing to add cassettes, an alarm sound is audible

2. Touch **[abort]** on Tissue Processing screen
3. Touch **[yes]** to confirm cancellation

Note: the instrument will prompt the user to drain the retort

4. Remove the basket from the retort
5. Touch **[yes]** to confirm the basket was removed

Add specimens during delayed start

1. Touch **[Pause]**

Note: Vip-6 preparing to add cassettes, an alarm sound is audible

2. Touch **[Menu]** 
3. Touch **[update cassettes]** 
4. Input the amount of added cassettes followed by **[enter]**
5. Confirmation screen is visible touch **[yes]**
6. Back in the process menu, choose **[exit]**
7. Touch **[resume]** to continue processing

End of processing

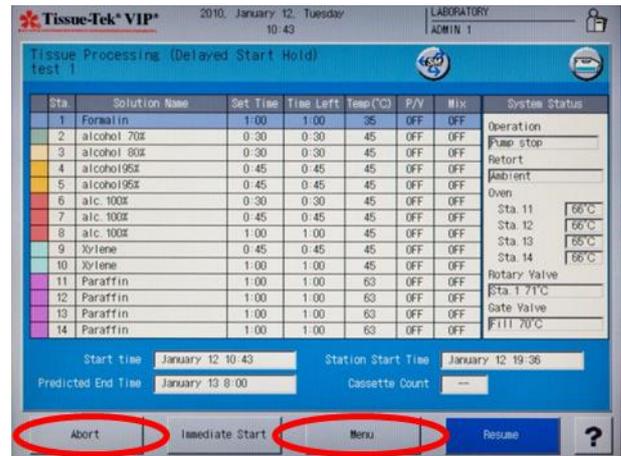
1. Notification screen appears When processing is completed Touch **[OK]**
2. Drain retort and remove baskets

Clean retort process

1. After retort drain "clean retort process" screen appears automatically.
2. Select desired program and press **[Start]**

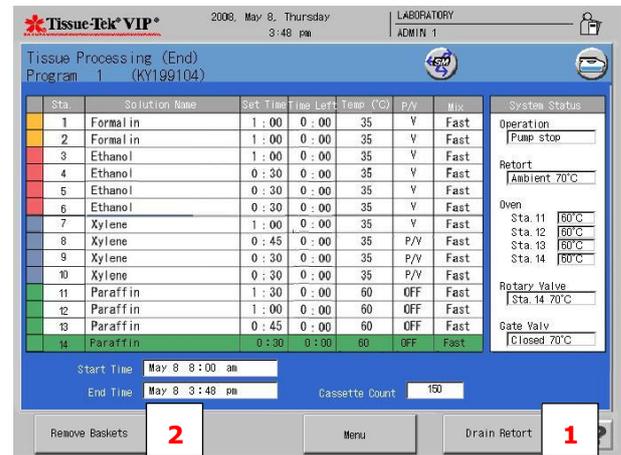
Self-test

1. After retort cleaning the "self-test" screen will be displayed
2. Self-Test is not mandatory, advisable is to perform a Self-test after refreshment of reagent
3. Perform the "self-test" by pressing **[start]**

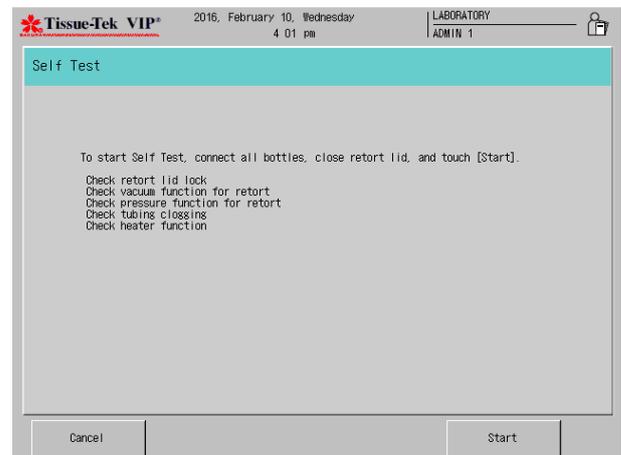


Abort run

To add specimens



End of processing



Self-test

General information containers

Volume amount for reagent containers:

- Use 2.7 liters for 150 cassettes
- Use 3.5 liters for 300 cassettes
- Volume for retort cleaning is 4.2 liters

Volume amount for the Paraffine containers:

- Use 2.7 liters for 150 cassettes
- Use 3.5 liters for 300 cassettes
- Volume for the bulk paraffin reservoir is 5.6 liters

Note: When using the paraffin container to melt paraffin pellets, fill the paraffin container up to the brim.

Volume amount for bulk reservoirs:

Maximum level is 10 Liters

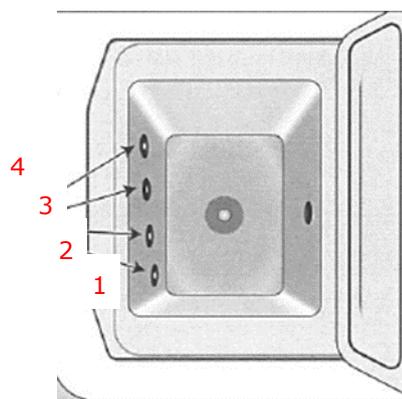
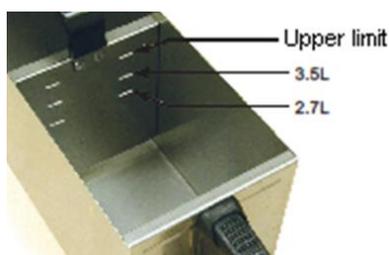
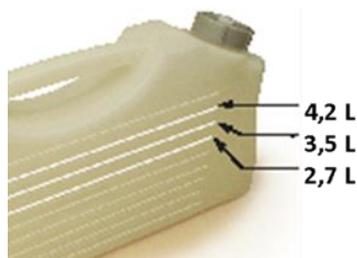
Level sensors in the VIP-6 AI

4 level sensors in the retort

- Level sensor 1: 2.7 L
- Level sensor 2: 3.5 L
- Level sensor 3: 4.2 L
- Level sensor 4: 4.5 L (overflow)

3 level sensors in the bulk reservoirs:

- Level sensor 1: 5.0 L (low level)
- Level sensor 2: 10.0 L (high level)
- Level sensor 3: 11.0 L (overflow)



Maintenance

(section 6 operating manual)

Daily

Retort cleaning

1. Clean the retort after processing (with tissue/cloth)
2. Perform a cleaning cycle right after processing
3. Clean the outlet filter on bottom of the retort

Weekly

Exterior surfaces

1. Exterior cleaning, use water moistened cloth.
2. Clean touch screen using alc. 70%-80%

Bottle cleaning and Warm Water Flush

1. Clean the solution bottles and perform a Warm Water Flush
2. Clean the paraffin containers (when changing paraffin)
3. Clean paraffin oven
4. Clean the "Condense" bottle
5. Perform "Self-test"

Monthly

1. Replace the activated carbon filters
2. Check bottle connectors for cracks
3. Clean the level sensors in the retort according to the Application Bulletin Level sensor cleaning VIP-6AI

Every 6 months

1. Replace the retort lid gasket

Yearly

1. Preventative maintenance by a Sakura representative or a qualified service engineer

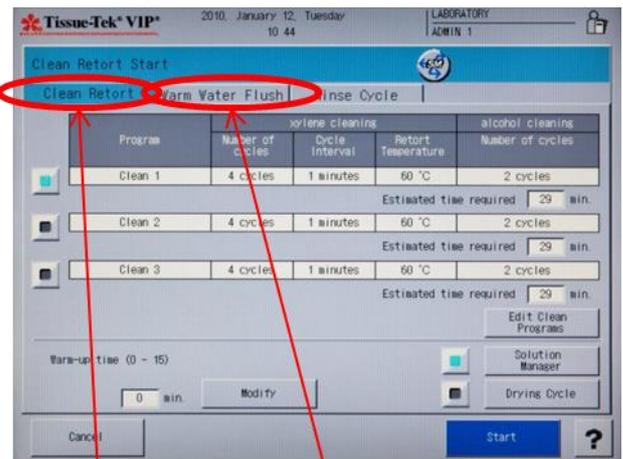
Disinfection

1. Spray or wipe 70-85% alcohol or Isopropyl alcohol onto the walls and base of the retort and inside of the retort lid

Note: do not use alcohol 100% this is less effective as a disinfectant

Note: do not use a different type of reagents this can contaminate the reagents

2. Allow the alcohol to air dry before closing the retort lid
3. Once dry, the machine is ready for use



Clean retort

Warm water flush



Carbon filters

Maintenance task	Frequency
Cleaning cycle	Daily
Retort cleaning	Daily (after every processing run)
Filter cleaning	Daily
Perform warm water flush	Weekly
Exterior cleaning	Weekly (water)
Clean touch screen	Weekly (alcohol 70-80%)
Clean solution bottles	Weekly
Clean paraffin containers	Weekly
Clean paraffin oven	Weekly
Clean / empty condensate bottle	when needed, at least weekly
Replace activated carbon filters	Monthly
Check bottle connectors	Monthly
Clean level sensors in the retort	Monthly
Replace retort lid gasket	Every six months (service)
Preventive maintenance	Yearly

Checklist maintenance (short summary)

Do's and don'ts

- Do not** wet the system
- Do not** operate the switches with a wet hand
- Do not** put anything other than paraffin in the paraffin chambers
- Do** use the specified solutions
- Do** perform periodic maintenance
- Do** provide a good ventilation around the system
- Do not** block the intake/exhaust ports around the system
- Do** replace the carbon filters every month to maintain a fume-free environment
- Do** connect all bottles, containers and activated carbon filters to the system
- Do not** open the retort when the system is still under pressure, injury may occur
- Do not** pour solution or paraffin directly in the retort
- Do** change the solutions periodically
- Do not** remove or set solution or paraffin bottles during operation
- Do** confirm that paraffin has fully melted
- Do** place the tissue in the specified baskets
- Do** check the solution and paraffin volumes before tissue processing
- Do not** place the paraffin container on the paraffin oven access door while the door is open
- Do not** connect any other device to the USB data port than an USB memory stick.

Reagent compatibility

Complete compatible	Partial (off-line fixation):	Incompatible reagents:
10%-20% Formalin	Zenkers	Bleach
VIP Fixative	Bouin's	Per-fix™
up to 20% NBF	B-5	Helly's
alcoholic formalin		Acetone
S.T.F., Tissue-Fix™		Tissue-Dry
Omni-Fix®, Formol-Free™		5% or greater acetic acid solution
Pen-Fix™, zinc formalin		re-distilled Xylene from cleaning stations
Millionigs BF		reagents containing > 0.5% chloride
ethyl alcohol		paraffin substitutes
isopropanol alcohol		Formalin Saline
methanol, grade alcohol		
Xylene, ProPar™		
toluene, benzene		
Ameri-Clear		
Histo-Clear		
Tissue-Clear		
Chloroform		
Histo-Sol™		
Clearite™		
Hemo-D™		
VIP® Paraffin		
Para-Plast™		
Tissue-Prep™		
Ameriffin™		