**Philips SAFESET™**

**Blood Sampling/Conservation System**

**Quick Step Guide**

**Priming**  ...before priming, always calculate a “Discard Volume” as outlined in the Instructions for Use (Discard Volume is required for step 7 below)

1. Check all connections for tightness on the Transpac 4 with SAFESET monitoring kit.
2. If you are using an "add-on" SAFESET extension set, attach the female luer to the stopcock on the transducer of your monitoring kit.
3. Remove the white vented cap from the female luer of the zeroing stopcock.
4. Release the locking mechanism on the in-line reservoir by pressing the ridged area of the plunger clip. Pull the plunger back to approximately 2-3cc (2-3ml).
5. Hold the in-line reservoir in the upright position with the top pointed up.
6. Activate the flush device. Check for removal of air bubbles at the tip of the reservoir, allowing fluid to pass the 1-way stopcock distal to the reservoir. “Close” the reservoir until the plunger clip is locked.
7. Attach the male luer of the monitoring kit to the patient’s catheter, being certain not to introduce air into the system during the connection procedure.
8. Release the locking mechanism of the in-line reservoir by pressing on the ridged area of the plunger clip. Pull back on the plunger slightly to fill. Fill the reservoir no faster than 1cc (1ml) per second to avoid occlusion of the catheter.
9. Once an appropriate Discard Volume (i.e. the amount that you calculated prior to Priming) is obtained in the in-line reservoir, turn the one-way stopcock that is integral to the reservoir “OFF”. This is done by turning the handle perpendicular to the tubing.
10. Per hospital policy, use disinfectant to cleanse the sampling port from which the sample will be drawn.
11. Attach the blunt cannula, or blunt cannula with tube holder, to the blood collection device (e.g., syringe, blood tube holder).
12. Insert the blunt cannula into the cleansed sampling port. Obtain the necessary amount of blood for a sample into the blood collection device.
13. Insert the blood vacutainer if using a blood tube holder.
14. Prior to removing the needleless access device, turn the one-way stopcock that is between the sampling port and the patient “OFF”, if accessible.
15. Remove the blood sampling device from the sampling port as a single unit.
16. If using a syringe, aspirate slightly while removing the blood collection device from the sampling port as a single unit.
17. Turn the one-way stopcock that is distal to the sampling port back to the “ON” position (handle of the stopcock parallel to the patient line).
18. Turn the one-way stopcock that is integral to the in-line reservoir back to the “ON” position (handle of the stopcock parallel to the patient line).
19. Return the fluid contained in the in-line reservoir back to the patient by slowly pressing down on the plunger.
20. Return the reservoir volume to the patient at a rate of 1cc (1ml) per second, until the plunger reaches its locked position.
21. Once the in-line reservoir is in the locked position, activate the flush device until the line is clear of all blood.

**Obtaining a Blood Sample**  ...using a “cannula” sampling port (if using a “luer” sampling port refer to the Instructions for Use)

6. Release the locking mechanism of the in-line reservoir by pressing on the ridged area of the plunger clip.
7. Pull back on the plunger slightly to fill. Fill the reservoir no faster than 1cc (1ml) per second to avoid occlusion of the catheter.
8. Once an appropriate Discard Volume (i.e. the amount that you calculated prior to Priming) is obtained in the in-line reservoir, turn the one-way stopcock that is integral to the reservoir “OFF”. This is done by turning the handle perpendicular to the tubing.
9. Per hospital policy, use disinfectant to cleanse the sampling port from which the sample will be drawn.
10. Attach the blunt cannula, or blunt cannula with tube holder, to the blood collection device (e.g., syringe, blood tube holder).
11. Insert the blunt cannula into the cleansed sampling port. Obtain the necessary amount of blood for a sample into the blood collection device.
12. Insert the blood vacutainer if using a blood tube holder.
13. Prior to removing the needleless access device, turn the one-way stopcock that is between the sampling port and the patient “OFF”, if accessible.
14. Remove the blood sampling device from the sampling port as a single unit.
15. If using a syringe, aspirate slightly while removing the blood collection device from the sampling port as a single unit.
16. Turn the one-way stopcock that is distal to the sampling port back to the “ON” position (handle of the stopcock parallel to the patient line).
17. Turn the one-way stopcock that is integral to the in-line reservoir back to the “ON” position (handle of the stopcock parallel to the patient line).
18. Return the fluid contained in the in-line reservoir back to the patient by slowly pressing down on the plunger.
19. Return the reservoir volume to the patient at a rate of 1cc (1ml) per second, until the plunger reaches its locked position.
20. Once the in-line reservoir is in the locked position, activate the flush device until the line is clear of all blood.

**Troubleshooting Tips**

- Reference the opposite side of this Quick Step Guide for helpful hints and reminders.

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Philips SAFESET™
Blood Sampling/Conservation System

Troubleshooting Tips

To Prevent Blood Backing Up in Line Remember to...

- Ensure all connections in line are tightened
- Ensure reservoir is in the LOCKED position
- Pressurize IV container per hospital protocol
- Change vented (white) caps to non-vented (yellow) caps

To Prevent Air Bubbles in Line, Remember to...

- Ensure reservoir top is pointed up (one-way stopcock on top) with plunger pulled back to 3 ml when priming.
- Tap reservoir and transducer to ensure that all air bubbles have been eliminated when priming
- Invert and tap blood sampling ports to remove air bubbles when priming
- Draw back SLOWLY (1 ml or slower per second) on reservoir when drawing clearing volume
- Reinfuse the patient’s blood slowly, no faster than 1 ml per second, by pressing the plunger back to the closed and locked position

When Using a Blood Tube Holder for Blood Sampling...

- Once blood sample has been obtained, turn the one-way stopcock between sampling port and patient to the “OFF” or perpendicular position
- Next, completely remove blood collection tube from Blood Tube Holder BEFORE disconnecting from sampling port
- Disconnect Blood Tube Holder and blunt sampling device TOGETHER from sampling port
- Turn one-way stopcock between port and patient to the “ON” position and flush line

When Using a Syringe for Blood Sampling...

- Once the blood sample has been obtained, and prior to removing syringe and cannula from sampling port, turn one-way stopcock between sampling port and patient to the “OFF” or perpendicular position
- Next, disconnect syringe and blunt sampling device TOGETHER from sampling port while slightly pulling back on syringe plunger
- Turn one-way stopcock between port and patient to the “ON” position and flush line