Pump Start Up:
CrossFlow Interface & Hand Control Button Map.

1. Surgeon Profiles & Joint Settings
2. Set Pressure (mmHg)
3. Adjust Set Pressure Up/Down
4. Wash (use for better visibility)
5. Pump Settings
6. Upload Surgeon Profiles
7. Footswitch/Hand Control Settings
8. Start/Stop
9. Resection Integration Settings Menu
10. Wash/Clear Menu
11. Close Pump Customization Menu
12. Drain (use post procedure to drain fluid from joint)
14. Flow/Suction (%)
15. Hot Swap Function
16. Hardware Combination Selection
17. Scope/Cannula Combination in Use
18. Actual Pressure

User Interface Reference
Hand Control Button Reference

NOTE: Identifies which scope/cannula combo is selected for the procedure

Refer to the instructions for use for important safety and user advice. Do not operate the device without first reading and understanding the Instructions for Use.
The IFU part number is: P17330
The CrossFlow Pump catalog number is: 0450-000-000

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Stryker Color Palette
FRONT
Back

Stryker CrossFlow Flash Card 01
Front: CMYK / Stock: Print Run: X,XXX
Prints: CMYK / Stock:
Print Run: X,XXX

Stryker Color Palette
BACK
Stryker CrossFlow Flash Card 01
Prints: CMYK / Stock:
Print Run: X,XXX

Stryker Color Palette
Pump Start Up:
How to start up the pump & navigate to the Run Screen.

1. Turn on Pump:
   - Power on Pump
     The CrossFlow start up screen will appear and a progress bar will indicate that the pump is starting up.

2. Insert Cassettes:
   - Wait for Insert Cassette Screen to appear, then align the colored side of the cassette facing out toward its matching colored button. Green checkmarks will indicate that the cassette(s) have been properly inserted. Once the Inflow Cassette is inserted, the pump will advance to the User Profile Selection Screen.
   - NOTE: “OUTFLOW” indicates the Outflow Cassette is properly inserted.

3. Select User Profile:
   - Select the name of the surgeon performing the case. If no profile is uploaded for that surgeon, press "Standard Settings".

4. Select Joint:
   - Press the icon that identifies the operative joint:
     - Shoulder
     - Knee
     - Hip
     - Small Joint

5. Start Pump:
   - Once tubing is set up and saline is spiked:
     - Return to User Profile Selection Screen
     - Start New Case

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The IFU part number is: P17330
The CrossFlow Pump catalog number is: 0450-000-000
Pump Start Up:
How to start up the pump & navigate to the Run Screen.

1. Turn on Pump:
- Power on Pump
- The CrossFlow start up screen will appear and a progress bar will indicate that the pump is starting up.

2. Insert Cassettes:
- Wait for Insert Cassette Screen to appear, then align the colored side of the cassette facing out toward its matching colored button. Green checkmarks will indicate that the cassette(s) have been properly inserted. Once the Inflow Cassette is inserted, the pump will advance to the User Profile Selection Screen.

3. Select User Profile:
- Select the name of the surgeon performing the case. If no profile is uploaded for that surgeon, press "Standard Settings".

4. Select Joint:
- Press the icon that identifies the operative joint: Shoulder Knee Hip Small Joint

5. Start Pump:
- Once tubing is set up and saline is spiked: = Return to User Profile Selection Screen and Start New Case

Refer to the instructions for use for important safety and user advice. Do not operate the device without first reading and understanding the Instructions for Use.

The IFU part number is: P17330
The CrossFlow Pump catalog number is: 0450-000-000
**General Settings**

- **Access Settings Menu:**
  - Pump Customization Menu

- **Adjust General Settings:**
  - General Settings Screen
  - General Settings Screen
  - General Settings Screen

  **NOTE:** Icon will display as ORANGE when selected.

- **Change Pressure Display:**
  - Actual Pressure Display Settings Screen
  - Actual Pressure Display Settings Screen

  **NOTE:** This new pressure display will now appear on the Run Screen of the pump.

- **Return to Run Screen:**
  - Exit Menu
  - General settings are now customized.

---

**Pressure & Suction/Flow Settings**

- **Start the Pump:**
  - Start/Stop Pump

- **Adjust Pressure:**
  - Set Pressure Up
  - Set Pressure Down

- **Adjust Suction/Flow:**
  - Suction/Flow Rate Up
  - Suction/Flow Rate Down

---

**Set Pressure**

- **Set Pressure** is the pump's target pressure in the joint.

**NOTE:** Set Pressure is the pressure to be maintained in the joint.

**NOTE:** When set in inflow-only, fluid usage will be read as “Flow.” When set in inflow/outflow mode it will be read as “Suction”.

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The IFU part number is: P17330

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Literature Number: 1000900963 (Rev. B)
Settings Navigation:
How to access and adjust general settings for the CrossFlow pump.

1. Access Settings Menu:
   - Access the Settings Menu

2. Adjust General Settings:
   - Adjust Volume, Brightness, Language & Perform Software Upgrades
   - NOTE: Icon will display as ORANGE when selected.

3. Change Pressure Display:
   - Change how pressure displays on the run screen by pressing the desired icon.
   - NOTE: This new pressure display will now appear on the Run Screen of the pump.

4. Return to Run Screen:
   - Exit Menu
   - General settings are now customized.

Pressure & Suction/Flow Settings:
How to access and adjust Set Pressure and Suction/Flow settings.

1. Start the Pump:
   - Start/Stop Pump

2. Adjust Pressure:
   - Set Pressure Up
   - Set Pressure Down

3. Adjust Suction/Flow:
   - Suction/Flow Rate Up
   - Suction/Flow Rate Down

4. General Settings
   - Change Pressure Display
   - Set Pressure
   - Suction (INFLOW/OUTFLOW MODE)
   - Flow (INFLOW-ONLY MODE)

5. Settings in Detail:
   - Set Pressure: The pump's target pressure in the joint.
   - Suction: The suction pump will actively draw through the suction cannula, shaver, and RF tube.
   - Flow: The maximum rate that the inflow pump can reach while attempting to achieve the Set Pressure.

NOTE: Actual Pressure indicates the pressure in the joint.
NOTE: Feedback will vary in incidence of use.

Refer to the instructions for use for important safety and user advice. Do not operate the device without first reading and understanding the Instructions for Use.

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Clear Function:
How to access & adjust the Clear function.

Access Settings Menu:
- Pump Customization Menu

Adjust Clear Settings:
- Clear Settings Screen
- Increase Pressure/Flow/Duration Settings
- Decrease Pressure/Flow/Duration Settings
- Exit Setting Menu

Understanding Clear:
The Clear function is designed for quick dismissal and flushing of debris from the joint. It increases flow only, and does not increase pressure.

NOTE:
Can customize to last for a duration up to 120 seconds.

Wash Function:
How to access & adjust the Wash function.

Access Settings Menu:
1. Pump Customization Menu

Adjust Wash Settings:
2. Wash Settings Screen
- Increase Pressure/Flow/Duration Settings
- Decrease Pressure/Flow/Duration Settings
- Exit Setting Menu

Understanding Wash:
Wash Function
The Wash function allows for a customized, quick increase in pressure and flow to clear debris, control bleeding, and improve visualization in the joint. Can customize to last for a duration up to 120 seconds.

EXAMPLE:
A 50% Pressure increase of 50 mmHg set pressure would become 75 mmHg during Wash cycle.

NOTE:
Can only be activated by footswitch.

Wash/Clear Settings Screen
1. Clear Settings Screen
2. Clear/Clear Settings Screen
3. Wash/Clear Settings Screen
4. Start Pump to Perform Clear:
- Clear

The IFU part number is: P17330
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Clear Function:
How to access & adjust the Clear function.

Access Settings Menu:
1. Pump Customization Menu
2. Adjust Clear Settings:
   - Clear/Settings Screen
   - Increase Pressure/Flow/Duration Settings
   - Decrease Pressure/Flow/Duration Settings
   - Exit Setting Menu

Start Pump to Perform Clear:
1. Clear can only be activated by footswitch.

Understanding Clear:
The Clear function is designed for quick dismissal and flushing of debris from the joint. It increases flow only and does not increase pressure.

NOTE:
Can be customized to last for a duration up to 120 seconds.

Wash Function:
How to access & adjust the Wash function.

Access Settings Menu:
1. Pump Customization Menu
2. Adjust Wash Settings:
   - Wash/Settings Screen
   - Increase Pressure/Flow/Duration Settings
   - Decrease Pressure/Flow/Duration Settings
   - Exit Setting Menu

Start Pump to Perform Wash:
1. Wash can only be activated by footswitch.

Understanding Wash:
The Wash function allows for a customized, quick increase in pressure and flow to clear debris, control bleeding, and improve visualization in the joint. Can be customized to last for a duration up to 120 seconds.

EXAMPLE:
50% Pressure increase of 50 mmHg set pressure would become 75 mmHg during Wash cycle.

Refer to the instructions for use for important safety and user advice. Do not operate the device without first reading and understanding the Instructions for Use.

The IFU part number is: P17330
The CrossFlow Pump catalog number is: 0450-000-000
Hot Swap Function:
How to adjust & toggle hardware and/or scope combinations with the Hot Swap feature.

1. Access Scope/Hardware Combination Selection
Press the top right section of the screen where the scope/hardware combination is shown.

2. Choose Desired Option:
- Number of Scope/Cannula combinations being customized
- ONLY available during hip procedures

3. Choose Combination:
- Scroll Scope/Cannula Combinations
- Assigned Scope/Cannula is Selected

4. Perform Hot Swap:
- Hot Swap Function
Use the Hot Swap function during your case by pressing the icon on the console or CrossFlow hand control.

Settings in Detail:
- Set Pressure
Set Pressure is the pump's target pressure in the joint.
NOTE: On the CrossFlow console, pressure is adjusted in increments of 5mmHg.

- Suction
Suction refers to the flow rate the outflow pump will achieve through the outflow cannula, shaver, and RF tube.
NOTE: Suction will adjust in increments of 10%.

- Flow
Flow is the maximum flow rate the inflow pump will reach while attempting to achieve the Set Pressure.

Hardware Option  Joint  Default Combination
1  Knee  Stryker 5.8mm x 140mm Cannula with 4.0mm Scope
2  Shoulder  Stryker 5.8mm x 140mm Cannula with 4.0mm Scope
3  Hip  Stryker 5.0mm x 165mm Cannula (bridge) with 4.0mm Scope
4  Small  Stryker 4.0mm x 75mm Cannula with 2.7mm Scope
5  None

Refer to the instructions for use for important safety and user advice. Do not operate the device without first reading and understanding the Instructions for Use.

The IFU part number is: P17330
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**Hot Swap Function:**
How to adjust & toggle hardware and/or scope combinations with the Hot Swap feature.

1. **Access Scope/Hardware Combination Selection**
   - Press the top right section of the screen where the scope/hardware combination is shown.

2. **Choose Desired Option:**
   - Number of Scope/Cannula combinations being customized
   - ONLY available during hip procedures

3. **Choose Combination:**
   - Scroll Scope/Cannula Combinations
   - Assigned Scope/Cannula is Selected

4. **Perform Hot Swap:**
   - Hot Swap Function
   - Use the Hot Swap function during your case by pressing the icon on the console or CrossFlow hand control.

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**Hardware Option** | **Joint** | **Default Combination**
---|---|---
1 | Knee | Stryker 5.8mm x 140mm Cannula with 4.0mm Scope
2 | Shoulder | Stryker 5.8mm x 140mm Cannula with 4.0mm Scope
3 | Hip | Stryker 5.0mm x 165mm Cannula (bridge) with 4.0mm Scope
4 | Small | Stryker 4.0mm x 75mm Cannula with 2.7mm Scope
5 | None | No default combination

**NOTE:** The “Hot Swap” function allows the user to switch the scope/hardware combination being used during the case, without recalibrating the pump. Users can add multiple scope/hardware options to toggle between during the case.
Footswitch/Hand Control Settings:
How to customize & program settings on compatible footswitches and the CrossFire 2 Hand Control.

1. Access Settings Menu:
   - Pump Customization Menu

2. Customize Footswitch:
   - Radiotherapy Settings
   - When Using CrossFire Footswitch
   - When Using Wireless Footswitch
   - When Switching to a Wireless Footswitch

3. Assigning Button(s) Functionality to the Footswitch & Hand Control:
   Select button(s) on the footswitch or hand control diagram (the selected button will outline in green).

4. Return to Run Screen:
   - Exit Menu
   - Integration of Footswitch and/or RF devices are now customized.
   - NOTE: Suction must be checked if using RF devices with suction. Uncheck if surgeon will be using RF without suction.

Shaver/RF Console Integration
How to access & adjust approved resection console integration settings.

1. Access Settings Menu:
   - Pump Customization Menu

2. Customize Shaver:
   - Shaver Console Settings

3. Customize RF:
   - RF Console Settings

4. Return to Run Screen:
   - Exit Menu

Integration of Shaver and/or RF devices are now customized.
NOTE: Suction must be checked if using RF devices with suction. Uncheck if surgeon will be using RF without suction.

Refer to the instructions for use for important safety and user advice. Do not operate the device without first reading and understanding the Instructions for Use.
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**Footswitch/Hand Control Settings**

How to customize & program settings on compatible footswitches and the CrossFire 2 Hand Control.

1. **Access Settings Menu:**
   - Pump Customization Menu

2. **Customize Footswitch:**
   - Footswitch/Hand Control Settings
     - PRESS:
       - When Using CrossFire Footswitch
         - Suction Up
         - Suction Down
       - When Using Suctionless Footswitch
       - When Selecting CrossFire 2 Footswitch

3. **Assigning Button(s) Functionality to the Footswitch & Hand Control:**
   - Select button(s) on the footswitch or hand control diagram (the selected button will outline in green).
   - **Scroll Features Menu**
   - Highlighted feature will assign to the selected button(s).

4. **Return to Run Screen:**
   - Exit Menu
   - Integration of Footswitch and/or Hand Control devices are now customized.

**Shaver/RF Console Integration**

How to access & adjust approved resection console integration settings.

1. **Access Settings Menu:**
   - Shaver Console Settings

2. **Customize Shaver:**
   - RF Console Settings
     - When Using CrossFire Consoles
     - When Using an Approved Shaver Console
     - When No Shaver Console is Connected

3. **Return to Run Screen:**
   - Exit Menu
   - Integration of Shaver and/or RF devices are now customized.

4. **Suction must be checked if using RF devices with suction. Uncheck if surgeon will be using RF without suction.**

NOTE:

- CrossFire 2 Hand Control and CrossFire 2 Footswitch can have only one button programmed with CrossFlow function.
- The hand control and footswitch are now customized.

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