stryker

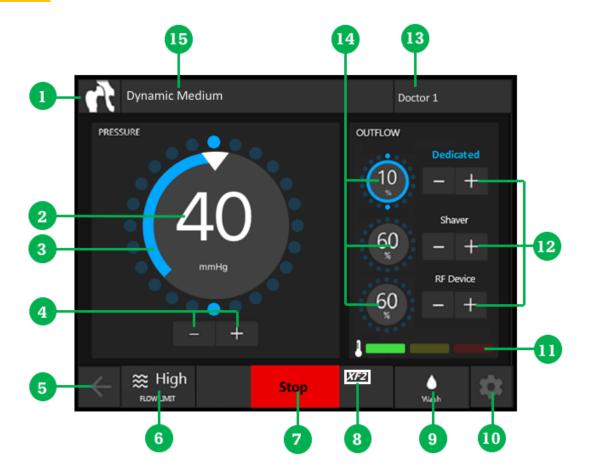
CrossFlow quick start guide



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- 7 Shaver and RF console integration
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- 9 Temperature monitoring settings
- Save surgeon profile settings

Pump interface reference CrossFlow interface map



User interface reference

- 1. Joint settings
- 2. Set pressure (mmHg)
- 3. Actual pressure
- 4. Adjust set pressure up/down
- **5.** End case
- 6. Flow limit pop-up menu
- 7. Start/stop
- 8. Resection console connection icon
- 9. Wash (use for better visibility)
- 10. Settings menu
- 11. Temperature indicator (during RF use)
- 12. Adjust suction up/down
- 13. Surgeon profile
- 14. Suction indicators
- 15. Scope/cannula combination in use

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

Pump start up

How to start up the pump and navigate to the Run Screen

Step 1: Turn on pump

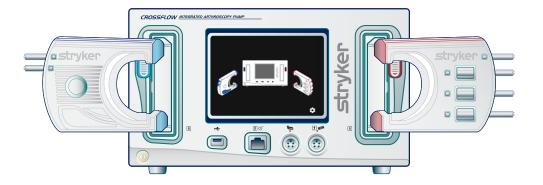




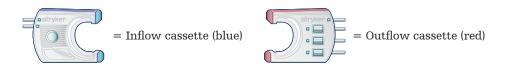
= Power on the pump

The CrossFlow start up screen will appear and a progess bar will indicate that the pump is starting up.

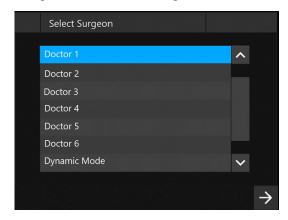
Step 2: Insert cassettes



Wait for "insert cassette" screen to appear, then align the coloured side of the cassette facing out toward its matching coloured 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.



Step 3: Select user profile

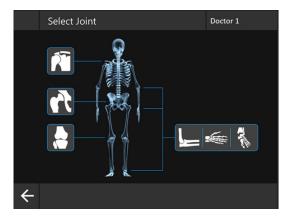


Select the name of the surgeon performing the case. If no profile is uploaded for that surgeon, press "Dynamic Mode".



= Advance to next screen

Step 4: Select joint



Press the icon that identifies the operative joint:

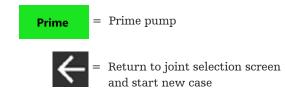




Step 5: Start pump



Once tubing is set up and saline is spiked:



Settings navigation

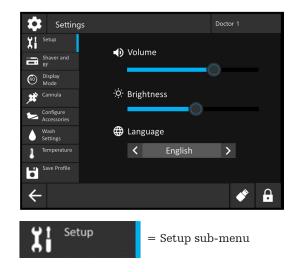
How to access and adjust general settings for the CrossFlow pump.

Step 1: Access settings menu

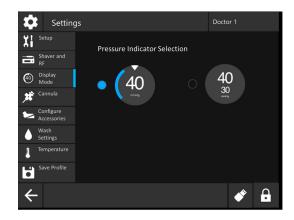




Step 2: Adjust general settings



Step 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.

Step 4: Return to run screen



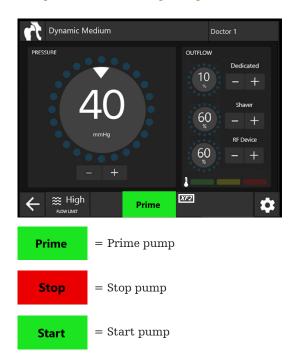
General settings are now customised.



Pressure, suction and flow settings

How to access and adjust set pressure, suction and flow settings.

Step 1: Start the pump



Step 2: Adjust pressure



Note: Actual pressure indicates the pressure in the joint.

Flow is the maximum flow

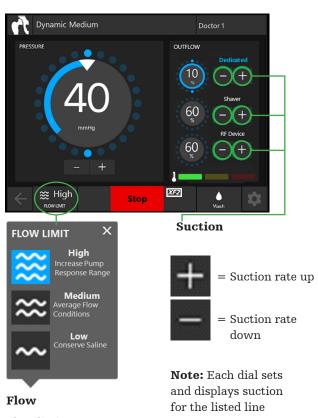
rate the inflow pump will reach

while attempting to achieve the set

Flow limit

pressure.

Step 3: Adjust suction and flow



Flow limit pop-up menu accessed to set inflow limit

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 (Inflow/outflow mode)

Suction refers to the flow rate the outflow pump will achieve through the outflow cannula, shaver, and RF tube.

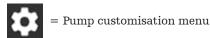
NOTE: Suction will adjust in increments of 10%

Wash function

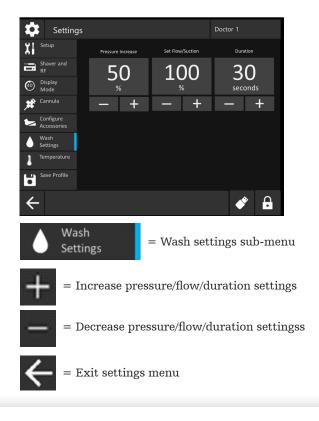
How to access and adjust the wash function.

Step 1: Access settings menu





Step 2: Adjust wash settings



Step 3: Start pump to perform wash



Understanding wash

Wash function

The wash function allows for a customised, quick increase in pressure and flow to clear debris, control bleeding and improve visualization in the joint. Can customise to last for a duration up to 120 seconds.

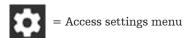
EXAMPLE: 50% Pressure increase of 50 mmHg set pressure would become 75mmHg during wash cycle.

Cannula settings

How to set cannula and scope combination or Dynamic Mode settings.

Step 1: Access settings menu







Note: The selected Cannula setting is displayed on the top banner of the Run Screen.

Step 2: Choose a desired option

Dynamic Mode options provide optimised flow for a range of scope cannula combinations. Hardware-specific provides customised flow for the scope cannula combination you are using.



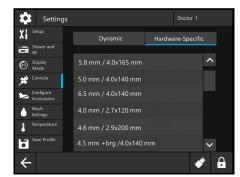
Dynamic Mode

Select a cannula setting



While operating in "Dynamic Mode", select one of the following options:

Dynamic mode setting	Cannula diameter (mm) – scope diameter (mm) = x
Dynamic Low	$x \le 1$ mm
Dynamic Medium	$1 \text{ mm} < x \le 2 \text{mm}$
Dynamic High	x > 2mm



Hardware-specific alternative tab

As an alternative to Dynamic Mode cannula settings, the specific scope/cannula combination can be selected in the hardware-specific tab.

Shaver and RF console integration

How to access and adjust approved resection console integration settings.

Step 1: Access settings menu

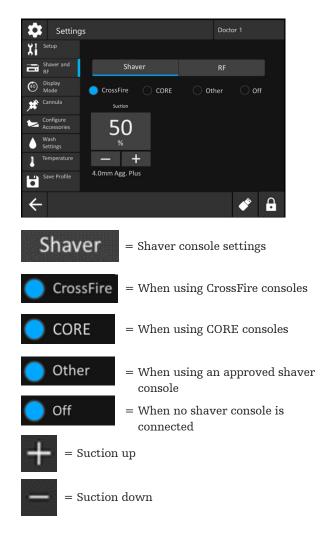




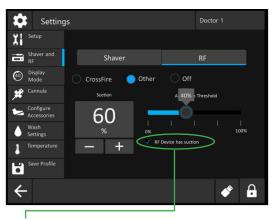
Step 2: Access shaver and RF sub-menu



Step 3: Customise shaver



Step 4: Customise RF

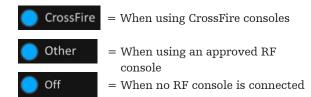


NOTE: While in "Other", suction must be checked if using RF devices with suction. Uncheck if using RF without suction.

RF = RF console settings

NOTE: Adjust Activation Threshold to optimise pump response to other RF or Shaver consoles.

Press



Step 5: Return to run screen



= Exit menu

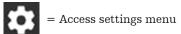
Integration of shaver and/or RF devices are now customised

Footswitch and hand control settings

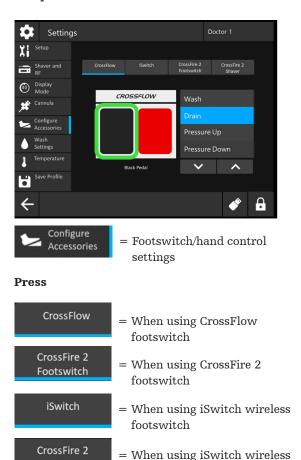
How to customise and program settings on compatible footswitches and the CrossFire 2 Hand Control.

Step 1: Access settings menu





Step 2: Customise footswitch



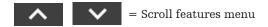
footswitch

Shaver

Step 3: Assigning button(s) functionality to the Footswitch and Hand Control:



Select button(s) on the footswitch or hand control diagram (the selected button will outline in green).



Highlighted feature will assign to the selected button(s).

Step 4: Return to run screen



The hand control and footswitch are now customised.

NOTE: CrossFire 2 Hand Control and CrossFire 2 Footswitch can have only one button programmed with CrossFlow function.

Temperature monitoring settings

How to select temperature monitoring and mitigation settings for use with SERFAS probes.

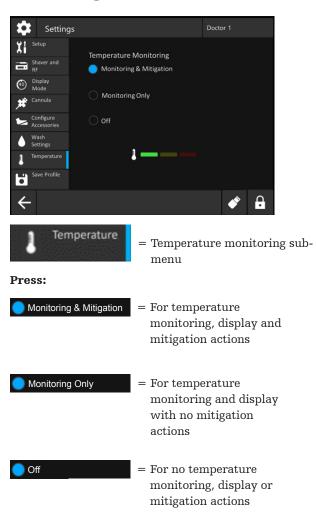
Step 1: Access settings menu





= Pump customisation menu

Step 2: Customise temperature monitoring

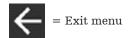


Step 3: Return to run screen



Temperature indication is displayed

Return to run screen



NOTE: Temperature monitoring is only available with CrossFire 2 using SERFAS suction RF probes.

The temperature settings are now customised.

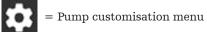


Save surgeon profile settings

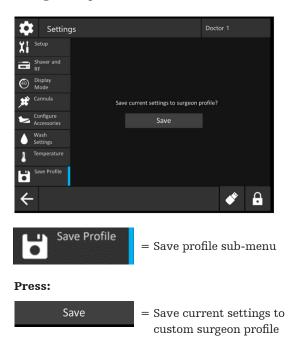
How to save the current CrossFlow settings to the custom surgeon profile.

Step 1: Access settings menu



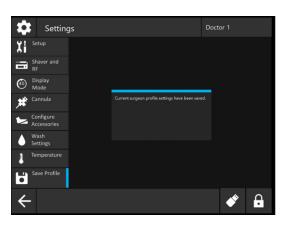


Step 2: Save settings to surgeon profile

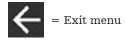


NOTE: The settings of the default dynamic profile cannot be saved over.

Step 3: Return to run screen



Return to run screen



The updated settings are now saved to the Custom Surgeon Profile



Sports Medicine

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