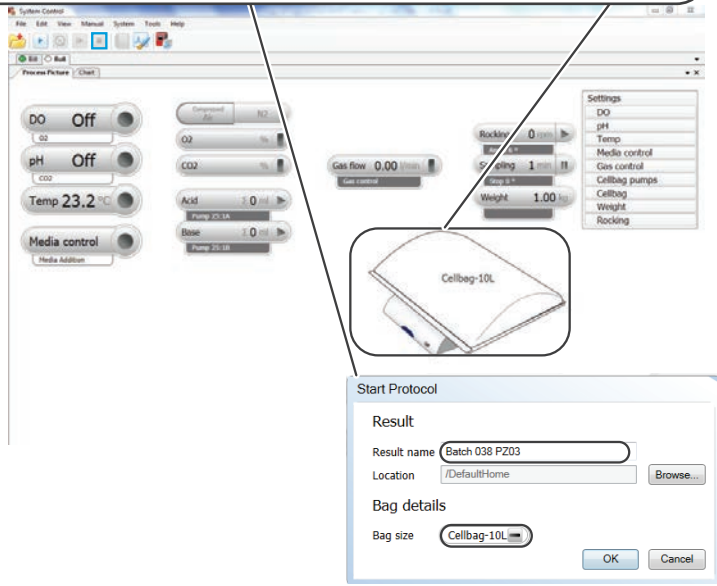


Start a manual run

1. Depending on the Cellbag™ bioreactor configuration, click the **Cellbag** icon to edit and acknowledge the settings. The **Start Protocol** appears.

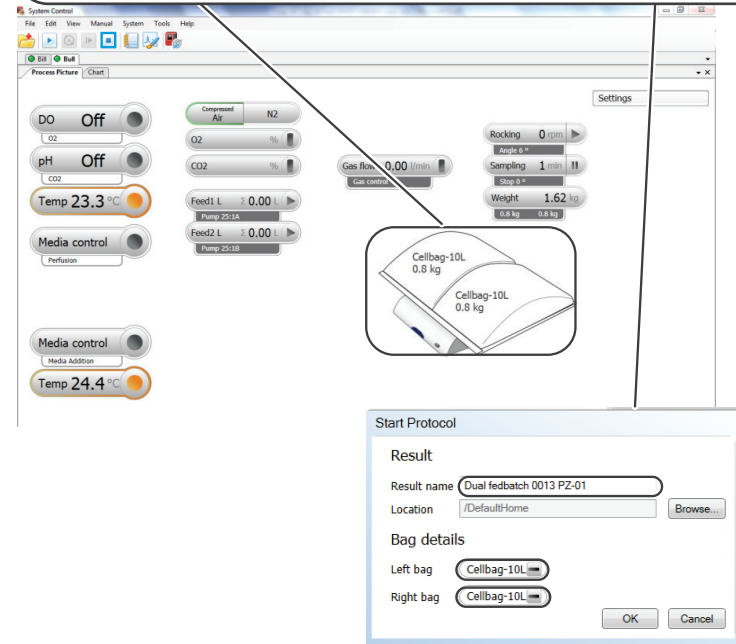
Single run


2. Enter the **Result name** and **Bag size** in the **Start Protocol** to initiate and log the run.



Dual run

3. Enter the **Result name** and **Left bag** and **Right bag** sizes in the **Start Protocol** to initiate and log the run.



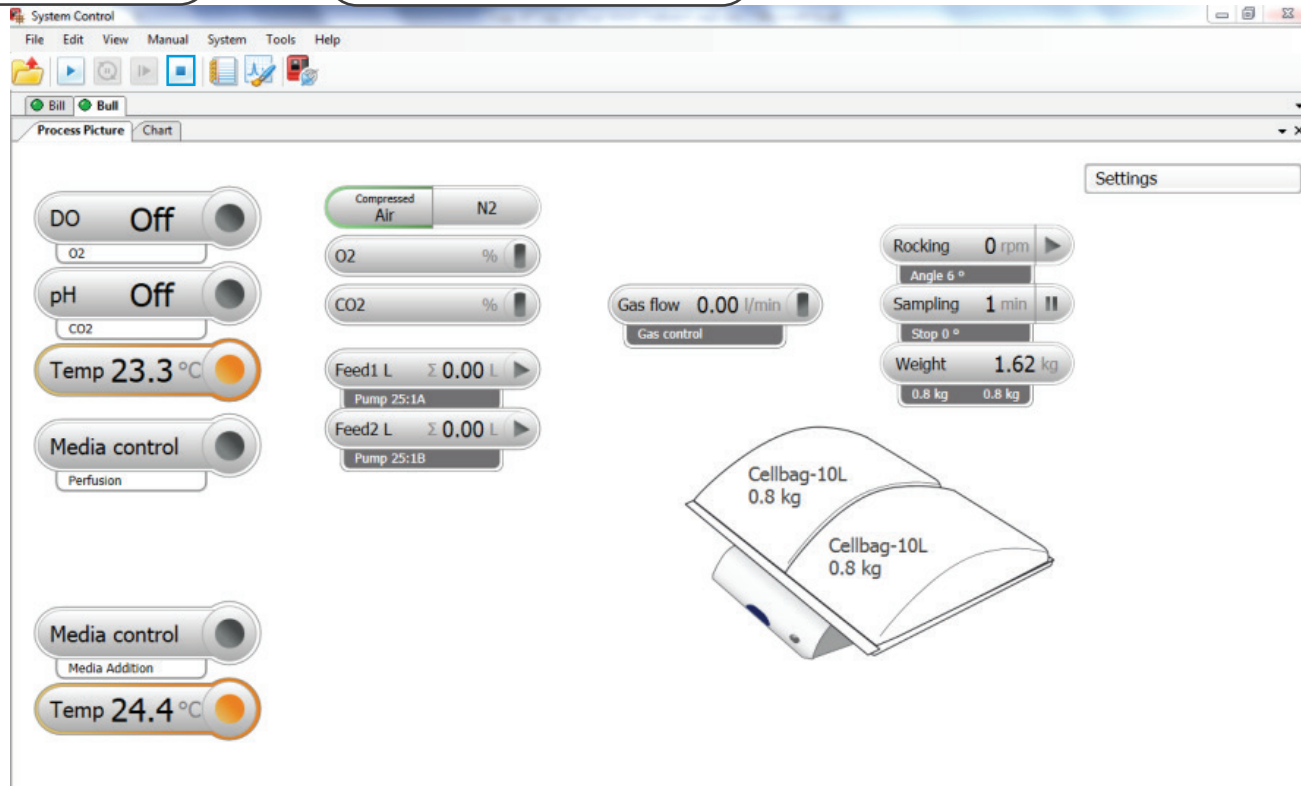
Click "Stop"  in the toolbar to end the run


Start a method run

Click the folder to open and run a method.

OR

Click the "Play" icon in the toolbar to run the latest method.



Click "Stop"  in the toolbar to end the run

Process picture features

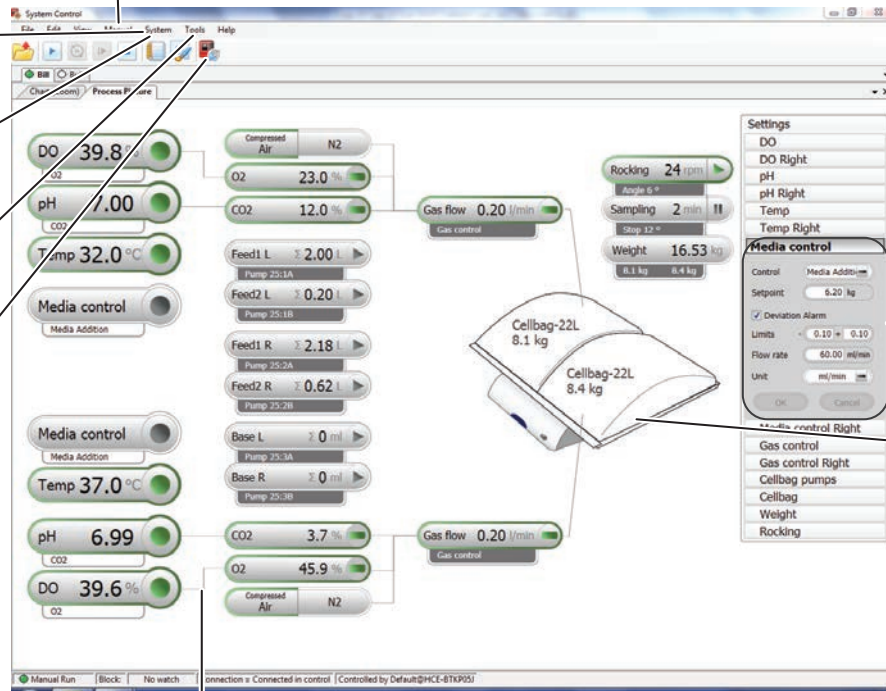
To access more advanced functions, click **Manual: Execute manual instructions**

To calibrate, click **System: Calibrate** and select monitor of choice

To define pump roles etc. click **System: Settings**

To edit system configuration, e.g. add pump/CBCU, click **Tools** and select **Administration: System Properties: Edit**

Click the "Connect" icon to view or control another system



Tab: Go to next input field
Enter: Confirm the setting (OK)
Esc: Cancel
Point (.): Decimal divider

Click the **Cellbag** icon to enter calibration values for pH and DO

Frame and button colors:

Green: Function is active

Orange: Attention needed, click on the button to view more information

Red: Function is not working properly, click on the button to view more information

Lines indicate control hierarchy, e.g. the pH and DO controls determine the gas composition and regulate the gas flow

For contextual help, click **F1**

Advice and recommendations

1. Before start, make sure the bench is level, flat and sufficiently stable to withstand vibration from the rocking.
2. Set the rocker stop angle to 0° and check that the tray is in a horizontal position.
3. Check that the weight distribution is even by reading the weight percentage values for the rocker feet.
4. Tare the scale with all the equipment on the tray, such as lid, Cellbag bioreactor, and filter heater before adding medium and starting a run (or manually enter the correct weight of the cell culture), to ensure correct weight measurement of the culture.
5. In dual mode, it is important to tare the scale to calculate a new center of gravity, even if the displayed weight seems to correspond to the correct weight of the media in the Cellbags.
6. Be careful when attaching the Cellbag bioreactor to the tray. Do not use excessive force.
7. Hold down the metal spring the entire time when disconnecting and connecting the gas tubing to CBCU to avoid breakage of the o-ring.
8. The system is calibrated at manufacture. Recalibration shall only be done by a skilled operator or a Cytiva service engineer. Incorrect calibration of e.g. temperature, scale, CO₂ and O₂ sensors can seriously compromise system control.
9. Fill the Cellbag with media with the tray set to a stop angle of 12° to reduce the risk for air bubble formation on the optical sensors. Using medium at room temperature or culture temperature also reduces the risk of air bubble formation.
10. Use correct tubing size. If a higher or lower pump flow is selected than supported by the tubing size, an error message will occur.
 - Using larger tubing with the tubing holder in its inner position will reduce flow rate and tubing life.
 - Using smaller tubing with the tubing holder in its outer position will not secure the tubing correctly and may lead to rupture.

Advice and recommendations

11. It is important to enter the correct tubing size (inner diameter) used under Settings: Cellbag pumps to obtain correct values for pump totalizers and flow rates.
12. Supported pump tubing sizes are shown in the table. The wall thickness of the tubing should be 1.6 mm (1/16").

Tubing inner diameter (mm)	Tubing inner diameter (")	Tubing holder position	Flow rate range (mL/min)
0.5	1/50	Inner	0.01 to 4.6
0.8	1/32	Inner	0.02 to 8.6
1.6	1/16	Inner	0.07 to 28
2.4	3/32	Inner	0.15 to 58
3.2	1/8	Inner	0.24 to 95
4.0	5/32	Outer	0.34 to 135
4.8	3/16	Outer	4.3 to 170

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