

artis  
physio+

# Artis Physio Plus system Training support material SW 9.05

*“From Artis Physio to Artis Physio Plus”*



For safe and proper use of products mentioned herein, please refer to the Operators Manual.



GLBL/MG182/18-0002g(1) Sept 2019

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## Important Notice:

This presentation does not relieve any user of the **Artis Physio Plus** Dialysis System from his or her duty to carefully read the full text of the Operator's Manual before using the system.

*Ref: Artis Physio Plus Operator's Manual vol. 1 & 2 - code SP01422 - SW 9.05*

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# Learning objectives

At the end of this training you will be able to:

- Identify the Artis Physio Plus system, the specific consumables and how to install them
- Describe the key changes related to the preparation of fluid suitable for infusion
- Use the recommended install-and-priming sequence
- Discuss the new option for disinfection between treatment and the Ultra disinfection for disinfection after ultrafilters change





# Introducing Artis Physio Plus

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The Artis Physio Plus allows you to deliver efficient HD, effective HDF or the innovative HDx therapies

What's new about the Artis Physio Plus system

- A multi-therapy system enabling a choice of therapy
- Simplified infusion lines for on-line treatments
- Short Eco Heat disinfection between treatments





# New name and logo



The Artis Physio device upgraded to Artis Physio Plus configuration are identified with the logo on top of the screen



The Artis Physio Plus devices are identified with the new colors of the panels and the logo on top of the screen

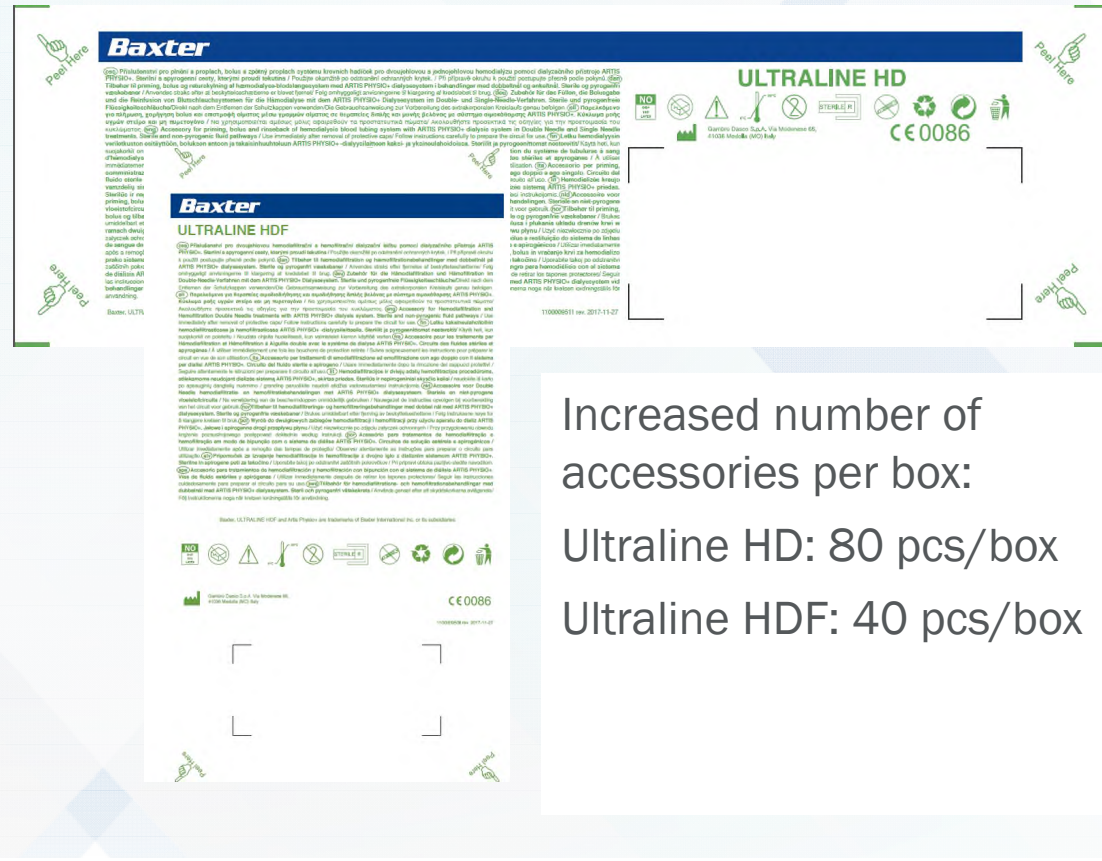


Both configurations offer same level of performances  
Except for the lines for On-line Priming and on-line HDF, they are operated with the same consumables and there's no differences in handling and procedures



# Differentiating Artis Physio and **Artis Physio Plus**

The **Artis Physio Plus** system is associated with a **GREEN** color used on the logo and packaging of line accessories



Increased number of accessories per box:  
 Ultraline HD: 80 pcs/box  
 Ultraline HDF: 40 pcs/box



# Artis Physio Plus Technology

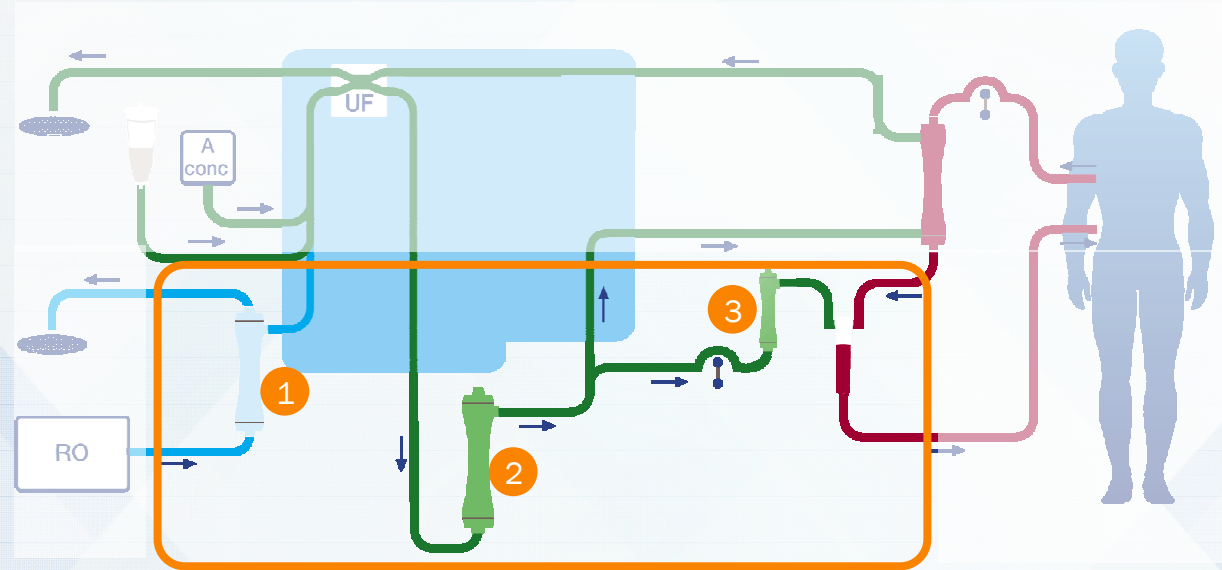
- The single-use filter (HDF filter / U2000 / PRIME filter) has been removed from the Ultra HDF accessories and from the Ultra prime line
- A 3<sup>rd</sup> multi-use U9000 ultrafilter has been introduced within the Artis Physio Plus hydraulics





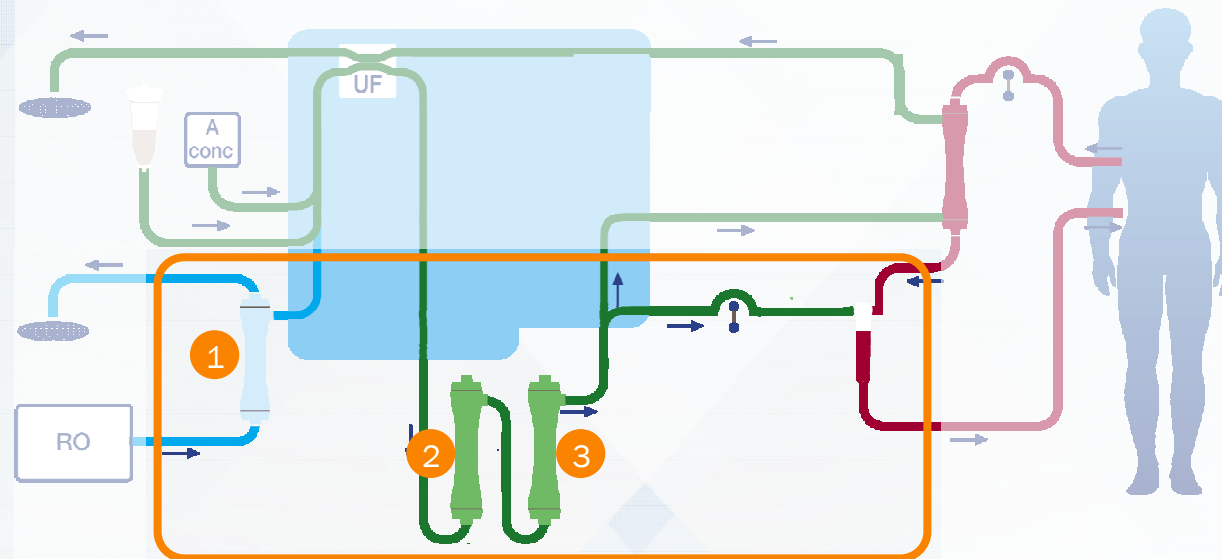
# Artis Physio Plus Technology

From 2 + 1...



2 Ultrafilters (1,2)  
+ 1 single use filter (3)

... to 3 + 0

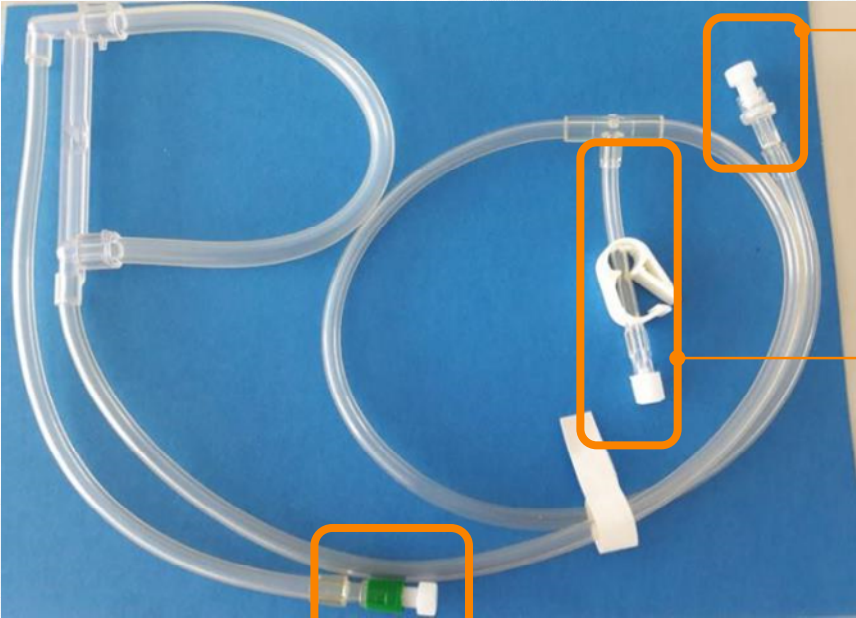


3 Ultrafilters (1,2,3)  
no single use filter



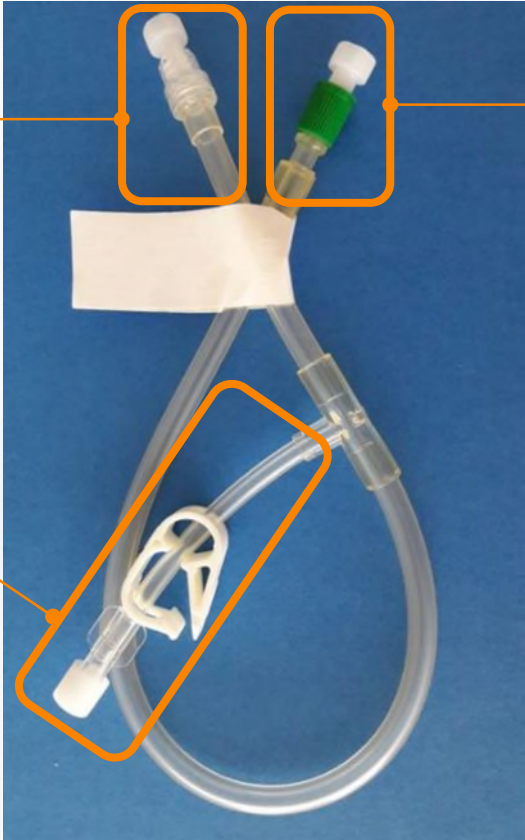
# Delivering on-line HDF and HD on-line Priming with new accessories without single use filter

The Ultraline HDF for on-line HDF



Ultra line

The Ultraline HD for on-line Priming



Ultra line

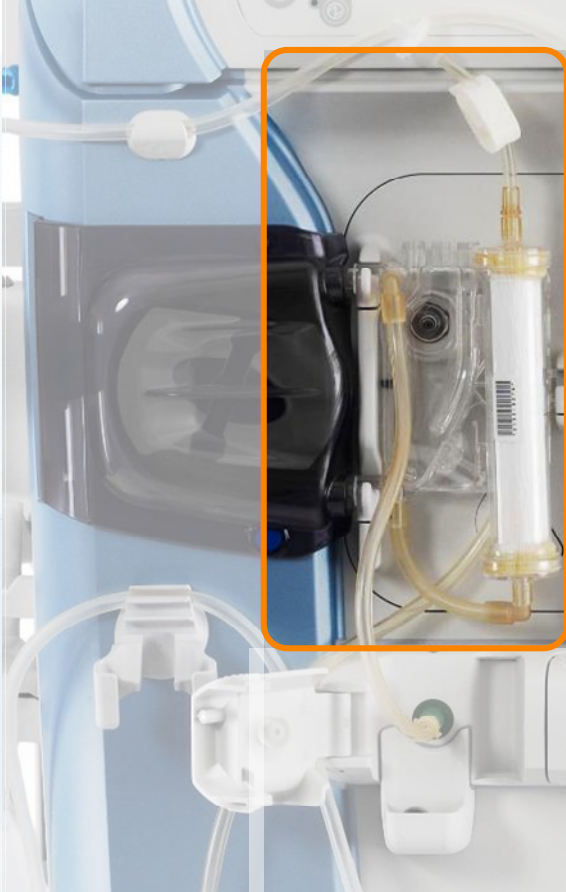
Fluid line

Rinseback Connector



# Simplified Accessories for on-line HDF treatments

Ultra HDF line on the Artis Physio system



Single use filter

Ultraline HDF on the Artis Physio Plus system



Single use filter no longer required



# Simplified Accessories for on-line HD treatments

Ultra Prime line on the Artis Physio system



Single use filter

Ultraline HD on the Artis Physio Plus system

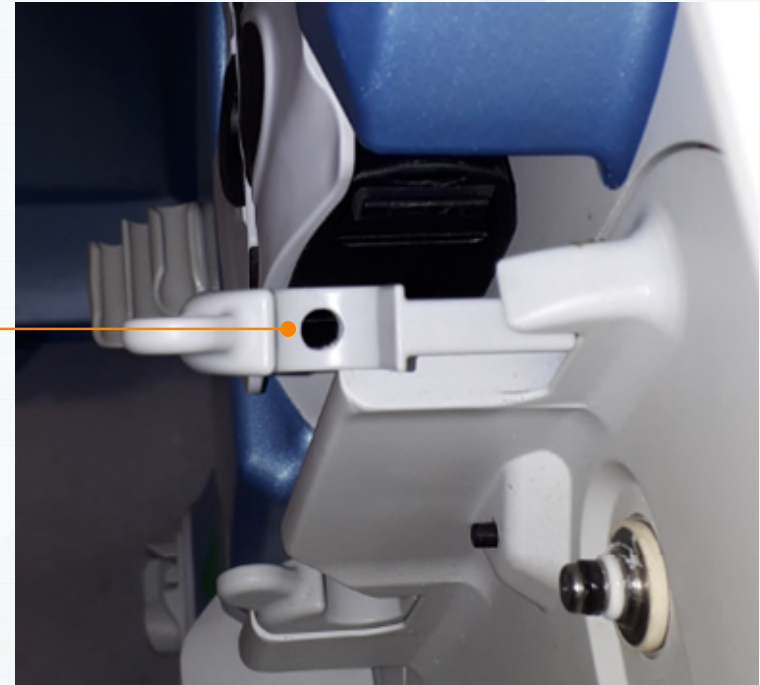
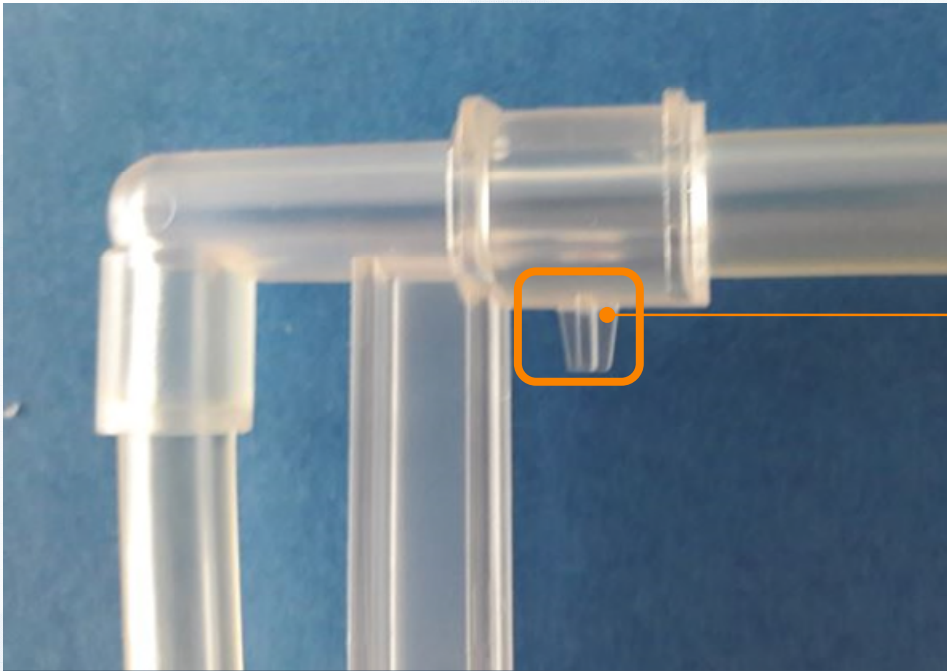


Single use filter no longer required



# Ultraline HDF: Particular interlocking point

This is to ensure that the correct HDF line is used on the Artis Physio Plus system  
The Ultraline HDF shall be used only on the Artis Physio Plus system



The Ultraline HDF can NOT be used on the Artis Physio system



# New design of the Ultra door

The design of the Ultra door has been modified to ensure disinfection of the external luer connector

Remember: the collector below the ultra port needs to be kept dry and free of any fluid





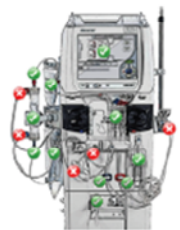
# Blood lines and accessories: Therapies and portfolio

THERAPY	ARTIS PHYSIO		ARTIS PHYSIO PLUS	
	ArtiSet	Accessory	ArtiSet	Accessory
HDF/HF-PRE HDF-POST	Artiset Pre-Post	Ultra HDF Line	Artiset Pre-Post	ULTRALINE HDF
HDF-POST only	Artiset HD DNL HC	Ultra HDF POST Line	Artiset Pre-Post or Artiset HD DNL HC	ULTRALINE HDF
HD DN with on-line Priming	Artiset HD DNL HC	Ultra Prime Line	Artiset HD DNL HC	ULTRALINE HD
HD SN with on-line Priming	Artiset SN	Ultra Prime Line	Artiset SN	ULTRALINE HD



# Recommended Sequences for Dressing & Priming

## THE ALL-IN-ONE SEQUENCE



0 to 11% - 20%\*



Wait for this pop-up; it will appear after 11 - 20% approximately\*



### Operator action

1. Switch ON
2. Install
  - Concentrates
  - Cassette
  - Dialyzer and connect bloodline
  - Syringe
3. Connect
  - Fluid tubes
  - Ultraline
  - Patient lines to Evaclean

\*11% for HDF with the BiCart Select system  
17% for HDF with the BiCart cartridge and Softpac concentrate  
20% for AFB K therapy

4. Press CONFIRM

5. Book AUTO-PRIME

### Machine action

Preparation and priming proceed automatically - NO operator action required



Ready for Patient connection!

## THE 2-STEP SEQUENCE

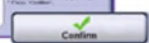


0 to 30% - 51%\*

Machine performs function check

\*30% for HDF with the BiCart Select system  
43% for HDF with the BiCart cartridge and Softpac concentrate  
51% for AFB K therapy

30% - 51%\*



### Operator action

1. Switch ON
2. Install Concentrates

Wait for the machine to complete the function check

### Machine action

### Operator action

3. Install
  - Cassette
  - Dialyzer and connect bloodline
  - Syringe
  - Insert patient lines in clamps
4. Connect
  - Fluid tubes
  - Ultraline
  - Patient lines to Evaclean

5. Press CONFIRM

6. Book AUTO-PRIME

### Machine action

Preparation and priming proceed automatically - NO operator action required



Ready for Patient connection!

These cards are available as stand-alone material for A4 printing with reference: GLBL/MG182/18-0002k



# Artis Physio Plus: Disinfection improvements



Short Disinfection “**Eco Heat**” takes only 23 min:

This is intended for disinfection between treatments and contributes to reduce time between treatment



- *Note: it can NOT be the only disinfection mode used, nor the last disinfection of the day; a regular full heat process or Heat with **CleanCart** cartridge is recommended once per day*



The **Ultra Heat** disinfection with the **CleanCart C** cartridge

This is a new disinfection mode intended to maintain the microbiological quality of the infusion fluid: performed with the **CleanCart C** cartridge and takes approximately 85 min

It is only required after ultrafilters’ change and starts automatically when the ultrafilter change procedure is completed

- *Note: The **Ultra Heat** disinfection with the **CleanCart C** cartridge is not required if the machine is not running on-line therapies.*
- *It is recommended to change the ultrafilters after the last treatment of the day and run the **Ultra Heat** disinfection with the **CleanCart C** cartridge right after*
- *Note: the machine can be programmed to stop automatically after disinfection, so there’s no need for the operator to be present to switch off the machine.*



# Artis Physio Plus: Ultrafilter change improvements



## Improved reminders

A Ultrafilter change reminder will be triggered when **7 days** (instead of 3) or when **12 disinfections** (instead of 3) are left before it is required to change the ultrafilters



An icon is permanently displayed in the icon area to raise operator's attention when the ultrafilters need to be changed

## Alarm #402:

Prompts the user, when the machine is switched on, to check remaining usage time of the ultrafilters in the Hygiene page, and replace the ultrafilters if necessary.

*Remember: it is recommended to change the ultrafilters after last treatment of the day because the Ultra Heat disinfection with the CleanCart C cartridge will start automatically, right after the ultrafilters change procedure*



# Ultrafilter Change

The holders have been improved to facilitate the change of the ultrafilters



Lift the upper arm



Remove the 3 filters



Insert new filters

The 3 ultrafilters must be changed at the same time

Always ensure Leakage tray is clean and dry, free from any fluid drips



# New alarms associated with the SW 9.05

## Alarm during function check: 500 Leakages G and 548 Leakages H

- Cause 1: Most of the time, these are due to incorrect/loose connections around fluid tubes, Evaclean, dialyzer blood lines, on-line port, saline/service clamps.
- Solution 1: Verify all connections and press CONFIRM to repeat test
- Cause 2: In case of repeated alarms, a possible cause could be an internal leak in the U9000 ultrafilters
- Solution 2: Proceed with ultrafilters change

## 677 HD-ULTRA/HDF/HF Treatments Disabled

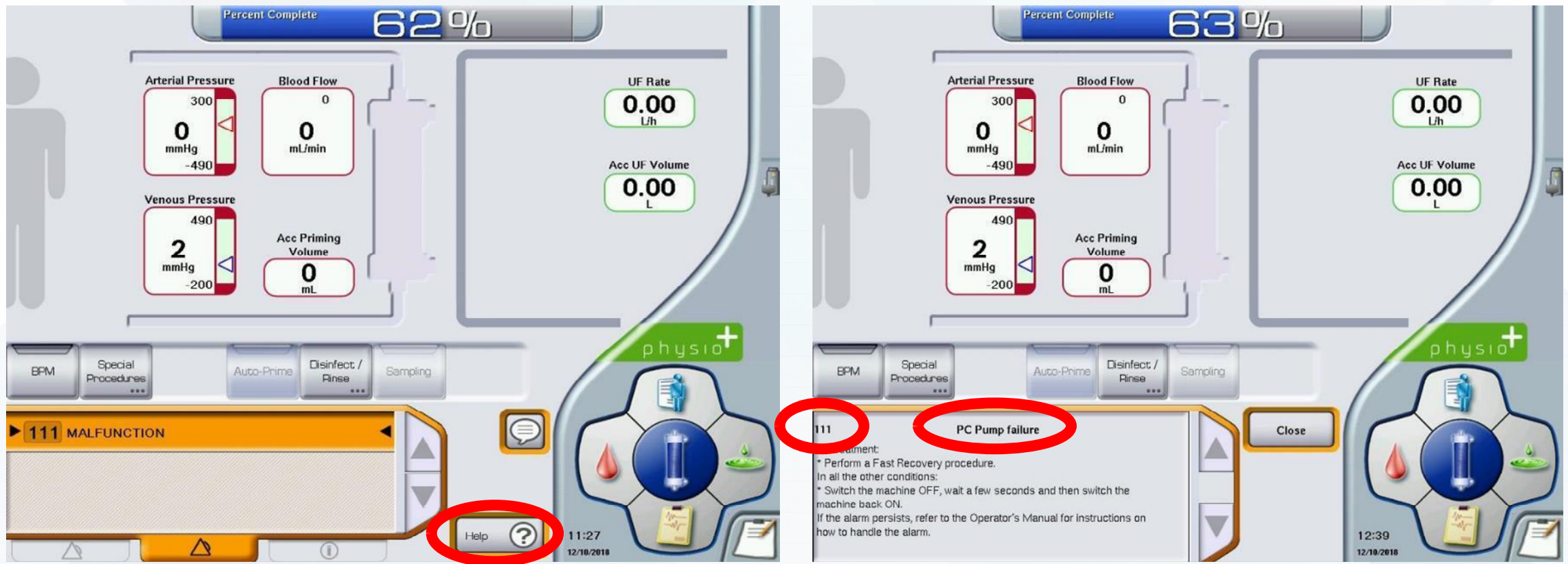
- Cause: generated if the last Ultra disinfection was not completed successfully, or if the Preset configuration requires an Ultra disinfection.
- Solution: The Ultra Heat disinfection with the CleanCart C cartridge shall be performed to enable on-line treatments

## 678 DISINFECTION REQUIRED BEFORE TREATMENT

- Cause: system has not been disinfected correctly since last treatment
- Solution: a disinfection should be performed



# Additional information available in case of Malfunctions



In case of Malfunction, select help on line text, and follow the instructions

Remember! Always take note of the alarm **name and number**, this will help the technician to resolve the issue



The image features the Baxter logo centered on a background of overlapping, semi-transparent blue geometric shapes. The shapes are primarily triangles and quadrilaterals, creating a dynamic, layered effect. The colors range from a deep, dark blue to a lighter, sky blue. The logo itself is the word "Baxter" in a white, bold, italicized sans-serif font.

***Baxter***



# Artis Physio Plus SW 9.05

## Optional Knowledge Check

	Question	True	False
1	A 3 <sup>rd</sup> Ultrafilter has been added on the dialysis fluid flow path		
2	The Eco Heat disinfection can replace all current disinfection procedures		
3	The Ultra port door has been modified to ensure disinfection of the external part of the luer connector		
4	The Ultraline HD can be used for HDF		
5	It is more time effective to install all consumables in the first 3 minutes of the preparation		



# Artis Physio Plus SW 9.05

## Optional Knowledge Check **with answers**

	Question	True	False
1	A 3 <sup>rd</sup> Ultrafilter has been added on the dialysis fluid flow path <b>True, and the lines accessories for on-line treatment are simplified</b>	✓	
2	The Eco Heat disinfection can replace all current disinfection procedures <b>False, Eco Heat is intended for between-treatment disinfection only</b>		✓
3	The Ultra port door has been modified to ensure disinfection of the external part of the luer connector <b>True</b>	✓	
4	The Ultraline HD can be used for HDF <b>False, Ultraline HD is for HD on-line Priming</b>		✓
5	It is more time effective to install all consumables in the first 3 minutes of the preparation <b>True, as this may avoid waiting time later in the preparation</b>	✓	