

# PuriFi Standalone with CytoSorb®

Quick Setup Guide



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PuriFi  
by CytoSorbents



- A CytoSorb® adsorber
- B Access (arterial) inline pressure sensor
- C Pre adsorber inline pressure sensor
- D Return (venous) pressure sensor and auto-leveling bubble trap
- E Air blood detector / Venous clamp
- F Blood return line line is connected to either a waste bag, a saline bag or the patient as indicated in the setup instructions > Setup instructions on the inside
- G Access blood line line is connected to saline bag or patient indicated in the setup instructions > Setup instructions on the inside
- H Saline bag for priming 1x2 or 2x1 liter
- I Blood pump
- J Heparin line and heparin syringe pump

## Setup modes

### Blood line setup vascular

Direct connection to vascular access (e.g. Shaldon line) with disconnect alarm on **blood return line**, if return pressure is <10 mmHg in case of a disconnect.

### Blood line setup ECMO

Connection to an ECMO system. The system is optimized for ECMO pressure conditions. No disconnect alarm on the **blood return line**.

PRIMING PARAMETERS	
No Alarms	
Volume Priming	2000 <sup>ml</sup>
Type of Treatment	Adult
Treatment Time	24:00 h:m
> Select yellow Parameter Field > Adjust and Confirm with Rotary Dial	
Back	Begin Setup

### Choose:

1. Volume for priming of the adsorber
2. **Adult** or **Pediatric** blood line set
3. Planned treatment time

TREATMENT IN PROGRESS	
No Alarms	
Duration Elapsed time	24:00 h:m
Blood flow Programmed	100 ml/min
Adjust Level Automatic	
Treatment Data	Alarms
Pressures mmHg	
Access	Adsorber
Drop	Return
30	80
10	60
Heparin Continuous	End Treatment
1 2 3 4	

- 1 Help function
- 2 Mute / Reset alarms
- 3 Start / Stop pump
- 4 Rotary dial to change and confirm selected parameter

## Notes prior to treatment start

- These instructions are a supplement to the operating instructions of the PuriFi System or the CytoSorb® adsorber and do not replace them.
- Please read and follow them for the application of the products.
- Preparation and use of CytoSorb® must always be carried out under hygienic conditions. Before connecting CytoSorb®, the supply tubing system must be airlessly primed with sterile isotonic saline solution.
- **Caution: Under no circumstances should air be allowed to enter the CytoSorb® adsorber.**
- When installing CytoSorb® always follow the flow direction indicated on the label.
- The blood flow rate should be 150-450 mL/min, but at least 100 mL/min.
- The maximum run time of a CytoSorb® adsorber and tubing set should not exceed 24 hours.
- It may be advisable to replace the adsorber even earlier if there are indications of an exhausted elimination capacity.
- Check the extracorporeal circuit at regular intervals for signs of blood clots, secure fit of the connections and for air within the circuit.
- This document does not replace IFU's of products used. Please ensure reading of all involved product IFU's.

## Anticoagulation

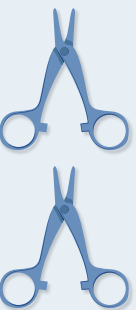
- Anticoagulation must be effective at the start of treatment.
- In general no special adjustments to anticoagulation protocols are required when using CytoSorb®.
- Specifications of the device manufacturer must be followed.
- Systemic heparinization:
  - An aPTT of 60-80 s or an ACT of 160-210 s is usually sufficient for CytoSorb®. The aPTT or ACT should be checked frequently.
- Any decision on dosage and target values is the responsibility of the treating physician.

## Materials required

PuriFi  
by CytoSorbents

Normal saline NaCl 0.9%,  
1x2 or 2x1 liter, sterile

Use of 2x plastic scissor clamps  
for 6.8 mm lines

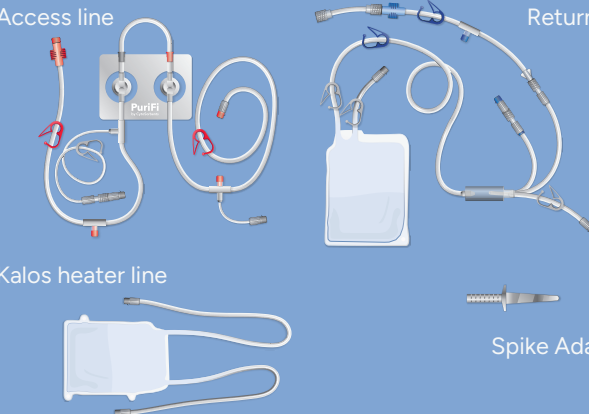


## CytoSorb® and integration solution

Adsorber



PuriFi standard or pediatric disposables



CytoSorb®  
adsorber

Disposables and blood volume

- M90444 Adult Tubing 100mL + Kalos heating line 15mL
- M90461 Pediatric Tubing 75mL + Kalos heating line 15mL

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Watch the complete set-up video: [cyto.zone/setup-purifi-video/eng](https://cyto.zone/setup-purifi-video/eng)

The clinical and preclinical data and results obtained with the CytoSorb® adsorber are not transferable to other products. CytoSorb® should only be administered by personnel who have been properly trained in administration of extracorporeal therapies. CytoSorb® is not available for commercial sale in USA.

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**PRIMING PARAMETERS**  
No Alarms

Volume Priming: 2000<sup>ml</sup>

Type of Treatment: Adult

Treatment Time: 24:00 h:m

> Select yellow Parameter Field  
> Adjust and Confirm with Rotary Dial

Back Begin Setup



Mount the CytoSorb® adsorber.

**DISPOSABLE SETUP**  
Rotor Positioning

DO NOT CONNECT CYTOSORB NOW!

Syringe →  
Syringe ←  
Cancel Priming  
Back

Setup bloodlines as shown on screen. Start with the **access blood line** with the pump segment.



1. Confirm pump segment and inline transducer placing



Connect heparin syringe to heparin line and place syringe in slider.

2. Confirm heparin syringe is connected and in place

Open clamp on heparin line. Press **Syringe** <--- to prime line.

3. Confirm heparin line clamp is open and primed



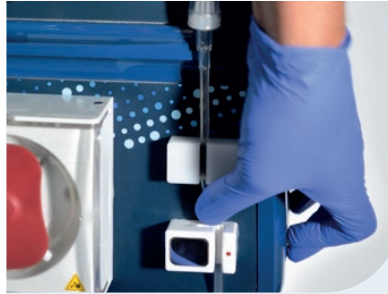
Connect **blood return line**, transparent bypass adapter and **access blood line**.

4. Confirm the connection to the CytoSorb bypass adapter



Mount chamber (bubble catcher) on **blood return line**. Push down return chamber.

5. Confirm the return chamber placing



Insert **blood return line** in air sensor and automatic clamp.

6. Confirm air sensor and return clamp line placing



Insert hydrophobic filter to metal connector. Secure it with the blue luer cap. Check tightening!

7. Confirm connection of pressure line to return pressure transducer



Connect **blood return line** to waste bag.

8. Confirm connection of the return line to the waste bag

START



Connect **access blood line** to saline bag.

9. Confirm connection of access line to saline bag

**DISPOSABLE SETUP**  
194 Connect Disposable

DO NOT CONNECT CYTOSORB NOW!

Syringe →  
Syringe ←  
Cancel Priming  
Back

Start Priming

To initiate priming press:

Start Priming

Don't touch system while <Test in Progress> is displayed.

During priming remove adsorber from clamp and tap it to remove air bubbles.



Connect:  
- **Red connector** on adsorber inlet  
- **Blue connector** on adsorber outlet

Don't remove both adsorber port plugs caps at the same time. Save adapter caps.

10. Confirm lines connected to CytoSorb



Connect **blood return line** to saline bag to have both lines on the same bag.

11. Confirm return line connection to saline bag

**PRIMING STOPPED**  
500 Priming completed

Priming 100%

Priming Volume Pumped Saline: 2000<sup>ml</sup>

Flow Blood pump: 300<sup>ml/min</sup>

Pressures mmHg

	Access	Adsorber	Drop	Return
H	600	600	600	600
L	400	400	400	400

Adjust Level Cancel Priming Connect Patient

After priming is completed:

- to circulate prior to connection press the button below the display:

START STOP

- to initiate treatment press:

Connect Patient

**HEPARIN PARAMETERS**  
No Alarms

Choose Heparin Mode: Continuous

Heparin pump flow: 0.4<sup>ml/h</sup>

> Serial patient connection  
> Parallel patient connection

Save as Default Heparin Calculation

Choose mode of connection

> Serial patient connection

Connect access line, system fills, connect return line. Connection without saline bolus.

> Parallel patient connection

Connect access and return lines at the same time. Connection with saline bolus.

**PATIENT CONNECTION**  
No Alarms

> Confirm access line connection

**PATIENT CONNECTION IN PROGRESS**  
No Alarms

Duration Elapsed time: 00:00 h:m  
Programmed: 24:00 h:m

Blood flow Programmed: 100<sup>ml/min</sup>

Pressures mmHg

	Access	Adsorber	Drop	Return
H	600	600	600	600
L	400	400	400	400

Wait till lines are filled with blood.

Adjust Level Automatic Alarms Heparin Disabled End Treatment

**PATIENT CONNECTION**  
No Alarms

> Confirm return line connection

**TREATMENT IN PROGRESS**  
No Alarms

Duration Elapsed time: 00:00 h:m  
Programmed: 24:00 h:m

Blood flow Programmed: 275<sup>ml/min</sup>

Pressures mmHg

	Access	Adsorber	Drop	Return
H	600	600	600	600
L	400	400	400	400

Adjust Level Automatic Alarms Heparin Disabled End Treatment

Adjust treatment parameters and start CytoSorb® Therapy.

To start the blood pump press the button below the display:

START STOP

Adjust alarms once the system has stabilized while running on the patient.

Plan adsorber exchange at least every 24h.

END