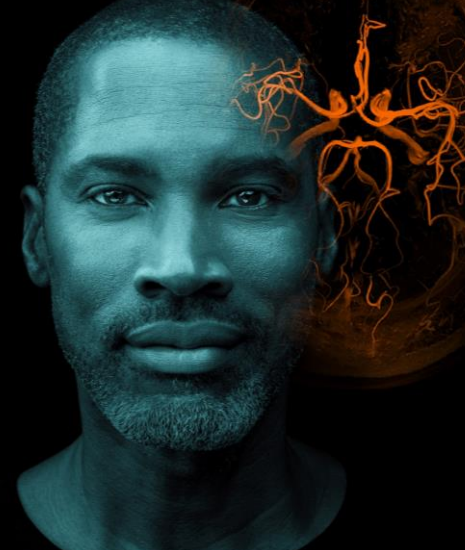
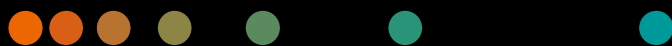


# Cleaning and Disinfection Guide

## SOMATOM CT System



## Introduction

This document provides detailed information about cleaning and disinfecting your CT system, system components and accessories.

### Scope of the Instructions for Use

This Instruction for Use document applies to the following CT systems:


- SOMATOM Definition AS
- SOMATOM Definition Edge
- SOMATOM Confidence
- SOMATOM Edge Plus
- SOMATOM Definition Flash
- SOMATOM Drive
- SOMATOM Force


### Applicability

This document is valid only in conjunction with the Instructions for Use of the corresponding SOMATOM CT system.

## Cleaning and disinfection

The following instructions are valid for the CT system, system components and accessories.

 CAUTION
<p>Using improper cleaning solvents!</p> <p><b>Injury to the cleaning personnel (allergic reaction or allergic shock) and damage to the equipment.</b></p> <ul style="list-style-type: none"><li>◆ Follow the cleaning and disinfecting instructions of the Instructions for Use.</li></ul> <p>Do not use unsuitable cleaning agents. Always use cleaning media also approved for humans.</p> <p>Follow the instructions of the disinfectant manufacturer and observe the dosage instructions.</p>

 CAUTION
<p>Insufficient cleaning or disinfection of the equipment!</p> <p><b>Injury to the patient or the personnel (bio hazard).</b></p> <ul style="list-style-type: none"><li>◆ Always clean or disinfect the equipment after use. Observe the instructions for cleaning and disinfecting.</li></ul> <p>Check if system components or accessories are worn out to ensure proper cleaning. Replace worn out components or accessories immediately.</p> <p>Make sure that the table and the accessories are clean and covered with paper, if possible.</p>

## Overview of approved cleaning agents and disinfectants

The table below lists suitable cleaning agents and disinfectants tested and approved by Siemens Healthineers.

"♦" indicates tested and approved cleaning agents or disinfectants.

System component / accessory	Cleaning agents and disinfectants (MFR 890/009 - 2017)													
	Antistatic cleaner	pH-neutral cleaning agent	Surgical spirit	Alcohols	Aldehyde	Quaternary compounds	Guanidin derivatives	Pyridin derivatives	Chlorine derivatives	Benzene	Alkylamines	Phenol derivatives	Organic acids	Peroxide compounds
<b>Gantry</b>														
Gantry cover		♦	♦	♦ <sup>1)</sup>	♦	♦	♦	♦	♦	♦	♦		♦	♦
Gantry operator panel		♦	♦	♦ <sup>1)</sup>	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Touch Panel	♦	♦	♦	♦ <sup>1)</sup>	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
<b>Patient table</b>														
Patient table		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Surgical rail		♦	♦	♦	♦	♦	♦	♦	♦	♦	♦			♦
Mattress		♦					♦		♦		♦			
<b>Monitor</b>														
Monitor housing		♦		♦ <sup>1)</sup>	♦	♦	♦		♦	♦	♦		♦	♦
Monitor screen	♦													
<b>Other system components</b>														
Foam material (for example, positioning aids)		♦					♦		♦		♦			
Monitor ceiling system		♦	♦	♦	♦	♦	♦		♦		♦		♦	♦
Image Reconstruction System (IRS)		♦			♦	♦	♦	♦	♦	♦	♦		♦	♦
Body straps		♦			♦		♦		♦		♦		♦	♦
ECG cables				♦ <sup>1)</sup>										
Foot switch		♦			♦	♦	♦		♦		♦		♦	♦
3D camera assembly		♦		♦ <sup>1)</sup>	♦	♦	♦	♦	♦		♦		♦	♦

<sup>1)</sup> ≤ 70 Vol% alcohol

# Cleaning and disinfecting the CT system and system components

To avoid personal injury and damage to the equipment, carefully follow the cleaning and disinfection instructions provided.

## CAUTION:

Liquids or food and drinks in the vicinity of medical equipment!

Injury to the patient or personnel, and malfunction of or damage to the equipment.

- Shut down the system immediately if liquid is detected within the equipment.
- Contact and leave all repairs to the Customer Service at Siemens Healthineers.
- Clean the equipment with a damp, not wet, cloth.
- Wring the cloth out well and make sure that no liquids get onto, or into, the equipment.
- After cleaning, make sure that no water remains on the floor to avoid slipping.
- Keep food and drinks away from the equipment.

## Cleaning and disinfecting the gantry

“◆” indicates tested and approved cleaning agents or disinfectants.

System component / accessory	Cleaning agents and disinfectants (MFR 890/009 - 2017)													
	Antistatic cleaner	pH-neutral cleaning agent	Surgical spirit	Alcohols	Aldehyde	Quaternary compounds	Guanidin derivatives	Pyridin derivatives	Chlorine derivatives	Benzene	Alkylamines	Phenol derivatives	Organic acids	Peroxide compounds
Gantry cover		◆	◆	◆ <sup>1)</sup>	◆	◆	◆	◆	◆	◆	◆		◆	◆
Gantry operator panel		◆	◆	◆ <sup>1)</sup>	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆

<sup>1)</sup> ≤ 70 Vol% alcohol

✓ The gantry is switched off.

1. Remove all impurities immediately with a damp but not wet cloth.
  - Remove blood spots with cold water.
  - Remove contrast medium spots with warm water.
2. Clean using a pH-neutral cleaning agent.
3. Disinfect using an approved disinfectant.
4. After disinfection with alcohol, clean the corresponding parts with hot water that contains a pH-neutral cleaning agent.

Cleaning agents and disinfectants that contain more than 70 Vol% alcohol can tarnish the surface

**Cleaning and disinfecting the Touch Panel screen** "♦" indicates tested and approved cleaning agents or disinfectants.

System component / accessory	Cleaning agents and disinfectants (MFR 890/009 - 2017)													
	Antistatic cleaner	pH-neutral cleaning agent	Surgical spirit	Alcohols	Aldehyde	Quaternary compounds	Guanidin derivatives	Pyridin derivatives	Chlorine derivatives	Benzene	Alkylamines	Phenol derivatives	Organic acids	Peroxide compounds
Touch Panel	♦	♦	♦	♦ <sup>1)</sup>	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦

<sup>1)</sup> ≤ 70 Vol% alcohol

✓ You can clean the screen of the Touch Panel even if it is switched on.

1. On the Touch Panel of your CT system, tap the **Settings** icon to open the **Settings** popover.
2. Choose the **General** tab to activate the Screen Cleaning Mode.

In **Screen Cleaning Mode**, a black screen with an unlock area is displayed.

3. Clean the touch screen with a soft damp cloth, for example, a microfiber cleaning cloth or a static-free cloth without oil.
4. Use the following cleaning agents to safely clean the touch screen:
  - Anti-static cleaner
  - Alcohol-free glass-cleaning fluid
  - Solution of water and a pH-neutral cleaning agent

5. For disinfecting the touch screen, use disinfectants that contain less than 70 Vol% alcohol.

6. After cleaning and disinfecting the touch screen, tap and keep the unlock area pressed until the circular progress bar is fully loaded.



The cleaning mode is deactivated now.

You can restart controlling gantry functions and movement of the patient table using the Touch Panel.

- i** Do not use fibrous materials, such as paper towels, that can scratch the screen. Over time, dirt particles and cleaning agents can get trapped into the scratches.
- i** Do not use corrosive agents to clean the touch screen to avoid damage to the surface coating.

## Cleaning and disinfecting the patient table

“◆” indicates tested and approved cleaning agents or disinfectants.

Cleaning agents and disinfectants (MFR 890/009 - 2017)	
System component / accessory	Antistatic cleaner pH-neutral cleaning agent Surgical spirit Alcohols Aldehyde Quaternary compounds Guanidin derivatives Pyridin derivatives Chlorine derivatives Benzene Alkylamines Phenol derivatives Organic acids Peroxide compounds
Patient table	◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆
Surgical rail	◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆

<sup>1)</sup> ≤ 70 Vol% alcohol

1. Remove all impurities immediately with a damp but not wet cloth.
  - Remove blood spots with cold water.
  - Remove contrast medium spots with warm water.
2. Clean using a pH-neutral cleaning agent.
3. Disinfect using an approved disinfectant .



Do not use cleaning agents that contain organic acids for the surgical rail. This can cause a mottled surface.

## Cleaning and disinfecting the mattress



“◆” indicates tested and approved cleaning agents or disinfectants.

Cleaning agents and disinfectants (MFR 890/009 - 2017)	
System component / accessory	Antistatic cleaner pH-neutral cleaning agent Surgical spirit Alcohols Aldehyde Quaternary compounds Guanidin derivatives Pyridin derivatives Chlorine derivatives Benzene Alkylamines Phenol derivatives Organic acids Peroxide compounds
Mattress	◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆

<sup>1)</sup> ≤ 70 Vol% alcohol

Although the mattress is water-proof, blood, or colored disinfectants may leave stains that cannot be removed.

- Siemens Healthineers recommends covering the mattress with crepe paper for hygiene reasons.
1. Clean thoroughly using a pH-neutral cleaning agent and a soft brush.
  2. Disinfect using an approved disinfectant.
  3. Rinse well after disinfecting.
  4. Store only after complete drying.

-  Do not use surgical spirit for cleaning. The surface material could become wrinkled.
-  Do not use disinfectants containing alcohols, quaternary compounds, aldehyde, or aldehyde decompositors. These substances discolor the surface material.

### Cleaning and disinfecting accessories made from foam material

“◆” indicates tested and approved cleaning agents or disinfectants.



System component / accessory	Cleaning agents and disinfectants (MFR 890/009 - 2017)													
	Antistatic cleaner	pH-neutral cleaning agent	Surgical spirit	Alcohols	Aldehyde	Quaternary compounds	Guanidin derivatives	Pyridin derivatives	Chlorine derivatives	Benzene	Alkylamines	Phenol derivatives	Organic acids	Peroxide compounds
Foam material (for example, positioning aids)		◆ <sup>1)</sup>					◆		◆		◆			

<sup>1)</sup> ≤ 70 Vol% alcohol

A number of accessories, such as positioning aids, is made from foam material.

- Siemens Healthineers recommends covering positioning aids with crepe paper for hygiene reasons.

1. Clean thoroughly using a pH-neutral cleaning agent and a soft brush.
2. Disinfect using an approved disinfectant.
3. Rinse well after disinfecting.
4. Store only after complete drying.

-  Do not use surgical spirit for cleaning. The surface material could become wrinkled.
-  Do not use disinfectants containing alcohols, quaternary compounds, aldehyde, or aldehyde decompositors. These substances discolor the surface material.

### Cleaning the monitor

“◆” indicates tested and approved cleaning agents or disinfectants.

System component / accessory	Cleaning agents and disinfectants (MFR 890/009 - 2017)													
	Antistatic cleaner	pH-neutral cleaning agent	Surgical spirit	Alcohols	Aldehyde	Quaternary compounds	Guanidin derivatives	Pyridin derivatives	Chlorine derivatives	Benzene	Alkylamines	Phenol derivatives	Organic acids	Peroxide compounds
Monitor housing		◆		◆ <sup>1)</sup>	◆	◆	◆		◆	◆	◆		◆	◆
Monitor screen	◆													

<sup>1)</sup> ≤ 70 Vol% alcohol

The monitor screen has a sensitive anti-reflective coating which has to be treated with care.

**⚠ WARNING**

Cleaning of parts of the system while the system is connected to the power supply!

**Electric shock due to possible contact with line voltage.**

- ◆ Always switch the system off at the main power switch before cleaning or disinfecting.

**⚠ WARNING**

Cleaning of the monitor housing during operation!

**Electric shock**

- ◆ Only clean the housing when the monitor is switched off.

✓ The monitor is switched off.

1. Clean the monitor housing with a damp but not wet cloth.
2. Clean the housing components only with approved cleaning agents.
3. Wipe off any droplets of liquid from the monitor screen immediately.

Extended contact with water discolors the surface of the monitor screen.

4. For protecting the sensitive anti-reflective coating of the monitor screen, use a microfiber cloth and, if necessary, an antistatic cleaner for cleaning.

**i** Do not use corrosive agents to clean the monitor screen to avoid damage to the surface coating

### Cleaning the monitor ceiling system

“◆” indicates tested and approved cleaning agents or disinfectants.

System component / accessory	Cleaning agents and disinfectants (MFR 890/009 - 2017)													
	Antistatic cleaner	pH-neutral cleaning agent	Surgical spirit	Alcohols	Aldehyde	Quaternary compounds	Guanidin derivatives	Pyridin derivatives	Chlorine derivatives	Benzene	Alkylamines	Phenol derivatives	Organic acids	Peroxide compounds
Monitor ceiling system		◆	◆	◆	◆	◆	◆		◆		◆		◆	◆

<sup>1)</sup> ≤ 70 Vol% alcohol

**⚠ WARNING**

Liquids in the monitor ceiling system, power supply cables are laid inside!

**Electric shock**

- ◆ Make sure that no liquids, for example cleaning fluids, can get into the interior of the monitor ceiling system.



**CAUTION**

Dirt and liquid in the monitor arm of the ceiling mounted monitor!

**Infection possible**

- ◆ Clean the monitor and monitor arm after use.

1. Clean after use.
2. Clean with a damp but not wet cloth.
3. Wipe off any droplets of liquid immediately to avoid that fluids infiltrate the interior of the monitor ceiling system.

### Cleaning and disinfecting the image reconstruction system (IRS)

“◆” indicates tested and approved cleaning agents or disinfectants.

System component / accessory	Cleaning agents and disinfectants (MFR 890/009 - 2017)													
	Antistatic cleaner	pH-neutral cleaning agent	Surgical spirit	Alcohols	Aldehyde	Quaternary compounds	Guanidin derivatives	Pyridin derivatives	Chlorine derivatives	Benzene	Alkylamines	Phenol derivatives	Organic acids	Peroxide compounds
Image Reconstruction System (IRS)		◆			◆	◆	◆	◆	◆	◆	◆		◆	◆

<sup>1)</sup> ≤ 70 Vol% alcohol

- ✓ The IRS is switched off.
- ◆ Clean the housing of the IRS with a damp but not wet cloth.
- i** Do not use alcohol or phenol derivatives for disinfecting the housing of the IRS.

### Cleaning and disinfecting body straps

“◆” indicates tested and approved cleaning agents or disinfectants.

System component / accessory	Cleaning agents and disinfectants (MFR 890/009 - 2017)													
	Antistatic cleaner	pH-neutral cleaning agent	Surgical spirit	Alcohols	Aldehyde	Quaternary compounds	Guanidin derivatives	Pyridin derivatives	Chlorine derivatives	Benzene	Alkylamines	Phenol derivatives	Organic acids	Peroxide compounds
Body straps		◆			◆		◆		◆		◆		◆	◆

<sup>1)</sup> ≤ 70 Vol% alcohol



Body straps can be machine-washed at temperatures up to 35° C. Washing may lead to minor surface changes, for example, softening the straps. The flame-retardance is not affected.

1. Remove contaminations with a wet cloth and a pH-neutral cleaning agent.
  2. For on-site cleaning and disinfection, use sodium hypochlorite (max. 0.1 % active chlorine) or branded disinfectants.
- or –

Before machine-washing or dry-cleaning, close the body straps in order to protect the Velcro parts.

3. Store only after complete drying.

### Cleaning and disinfecting ECG cables

“◆” indicates tested and approved cleaning agents or disinfectants.

Cleaning agents and disinfectants (MFR 890/009 - 2017)	
System component / accessory	Antistatic cleaner pH-neutral cleaning agent Surgical spirit Alcohols Aldehyde Quaternary compounds Guanidin derivatives Pyridin derivatives Chlorine derivatives Benzene Alkylamines Phenol derivatives Organic acids Peroxide compounds
ECG cables	◆ <sup>1)</sup>

<sup>1)</sup> ≤ 70 Vol% alcohol

- ◆ Clean and disinfect ECG cables with isopropyl alcohol (less than 70 Vol%) or another mild disinfectant only.



Do not use substances that contain acetone. Acetone can affect the cable material.



Do not steam sterilize ECG cables. Damp can infiltrate the interior of ECG cables.

Reference:  
 Cleaning and disinfection | Instructions for Use  
 SOMATOM | syngo CT VB20  
 Print No. C2-HW.621.03.02.02

Reference:

Cleaning and disinfection | Instructions for Use  
SOMATOM | syngo CT VB20  
Print No. C2-HW.621.03.02.02

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