



SANOSIL
DISINFECTANTS FOR LIFE 



Sanosil Q-Jet CT20

Automatic 3D room disinfection unit

www.sanosil.com

OPTIMUM HYGIENE

Seamless 3D room and surface disinfection using an automated, airborne system



Sanosil Q-Jet CT20

The versatile all-rounder for small to large rooms



Aerosol nozzle

For a fine, dry and smoothly flowing airborne mist



Compressor

For substantial pressure and very little noise



Connectable jet

For additional coverage and superb fog distribution in the room



Automatic measurement system

For precisely measuring the filling level and liquid consumption



Touchscreen

For convenient and intuitive operation



CT20 PRODUCT DESCRIPTION

Q-Jet CT20: Highlight of the last 20 years in aerosol device development

The CT20 combines more than 20 years of experience in aerosol disinfection. The key feature is the well-proven compressor/nozzle technology, which generates a fine, dry disinfection mist. The compressor power can be adjusted, allowing fog to be produced just 2 metres away from the wall. This presents a major advantage, which nearly no other device with a similar output can match.

A powerful turbine can, however, be switched on if the CT20 is required for a larger room. Its air jet functions as a booster and provides the disinfectant droplets with a considerably wider trajectory. What's more, this also ensures optimum distribution in the room. Thanks to the 5-litre active-substance tank, a room of up to 600 m³ can be fogged at a dosage of 8 ml/m³.

The device features 2 different operating modes as standard. In Auto mode, the room is automatically flooded with disinfectant mist up to the air saturation limit. Once this limit is reached, the device automatically switches off and only continues to operate when the humidity has decreased again. This prevents condensation and consequently ensures that the mist is uniformly distributed in the room. In Expert mode, the desired amount of disinfectant can be distributed manually via up to 4 cycles of a configurable length as well as 3 customisable intermediate pauses.

The device is operated using a touchscreen and features a logging function. This makes it possible to save each disinfection process and export it via a USB stick.



Mist nozzle

A stainless steel nozzle atomises the liquid into ultrafine aerosol droplets and provides the smooth flowing, almost dry airborne mist



Touchscreen

The user-friendly touchscreen and intuitive operating logic minimise the training requirements for operating the device.



Q-JET
CT20
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Compressor

The powerful compressor supplies exactly the right pressure with very little noise.



Turbine

The connectable turbine provides the aerosol with additional coverage and ensures that the disinfectant is optimally distributed in the room – perfect for higher volumes

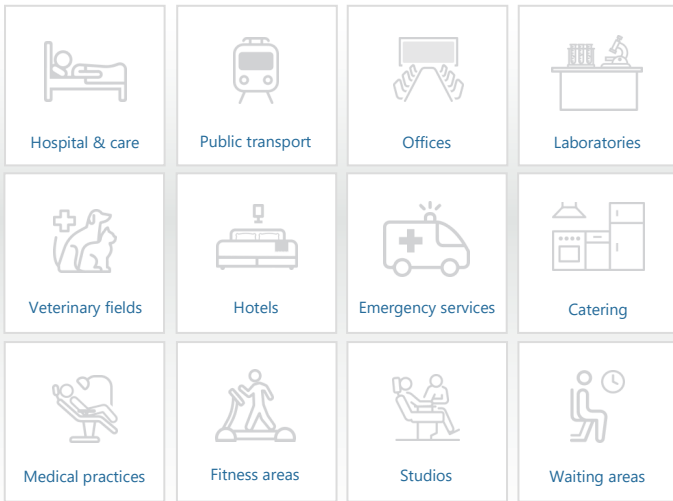
AEROSOL DISINFECTION

Ensure extra safety with complete disinfection

The disinfection standard of the future

The traditional spray-and-wipe disinfection method usually only achieves a coverage of 80-90%. This generates a risky gap in effectiveness. The additional aerosol disinfection with a CT-20 can eliminate this gap and defines a new disinfection standard for large areas.

The CT20 offers flexibility for use in a wide range of industries and applications and consistently provides superior microbiological safety.



THE TECHNOLOGY IN A NUTSHELL

Aerosol disinfection in brief

Aerosol disinfection is a state-of-the-art and practical disinfection method. Aerosol disinfection complements traditional spray-and-wipe disinfection and is designed to treat indoor air and surfaces in a wide range of living areas as completely as possible.

The Sanosil disinfectant is atomised into tiny droplets by a device, such as the CT20. They then flow throughout the treated room like a mist and settle on all surfaces without any gaps. Once a sufficiently high dose of disinfectant has been released into the room, the aerosol is allowed to work accordingly. During this time, the disinfectant eliminates the microorganisms on the surfaces (and in the air).

After the required reaction time, either wait until the hydrogen peroxide contained in the Sanosil disinfectant has broken down into water and oxygen, or thoroughly ventilate the room. Once the breakdown or air exchange has been completed accordingly, the thoroughly disinfected room can be used again.

It is very important to keep in mind that aerosol disinfection cannot completely replace traditional hygiene methods (such as thorough cleaning and spray-and-wipe disinfection), however it complements them perfectly.



Microorganisms throughout the room

After a traditional disinfection treatment, germs are still present since only 80-90% of the surfaces have been covered.



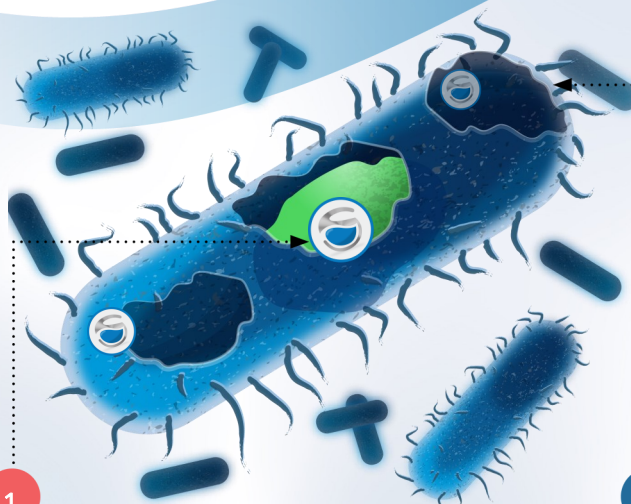
Aerosols reach all surfaces

Disinfectant distributed as an aerosol in the room settles everywhere. As a result, it completely covers all surfaces and also fills the air.



Complete 3D hygiene

The room is perfectly disinfected once the peroxide contained in the disinfectant has been broken down.



Sanosil disinfectant

How it works:

Hydrogen peroxide is used as the active ingredient. It is also stabilised and its disinfecting effect is catalytically enhanced several times over by adding a minimal amount of silver ions.

This process can increase the disinfection effect by up to 800%.

After application, hydrogen peroxide also completely decomposes into water and oxygen.

1. The oxygen ($^1\text{O}_2/\text{O}_2$) released by the hydrogen peroxide attacks the cell walls of the microorganisms. They are denatured and destroyed via oxidation (cold combustion).
2. The effect is supported by silver ions, which enhance the effect of the peroxide in a catalytic process. They also inhibit the metabolic processes (where present) and the germs' ability to multiply.

WHY USE A CT20?

Advantages of the CT20 compared to other aerosol systems



The same device for all room sizes ?

Excellent!



Compressors vs turbines

Aerosol disinfection devices that are currently available on the market typically use either compressor/nozzle or turbine technology to produce mist. They both offer advantages and disadvantages. Compressor devices are ideal for smaller rooms thanks to their smaller mist cone, but they reach their limits in larger rooms when it comes to optimally distributing the aerosol in the room.

By contrast, turbine devices provide a strong air flow and tend to simply blow the aerosols to the nearest wall in small rooms where they settle, instead of evenly distributing them throughout the room.

The CT20, on the other hand, brings together the best of both categories by using a compressor AND a turbine as required. And it provides the perfect aerosol technology for all room sizes, ranging from small to large.

CT20: Combines the best of both systems

- ✓ Compressor and nozzle for small rooms
- ✓ Additional turbine for medium and large rooms
- ✓ Optimal aerosol distribution for any room size
- ✓ Uniform disinfection performance on all surfaces



DIFFERENT OPERATING MODES

"The air is saturated with moisture at more than 10 ml/m³"

Starting with normal room temperature and approx. 45% humidity, the air can absorb approximately 10 ml of liquid per m³. The humidity increases to approximately 80%, depending on the condition and absorbency of the walls. If this value is exceeded, there is a risk of sudden condensation. This not only wastes disinfectant. In the worst case, however, there is a risk of material damage due to dripping on the walls.

In Automatic mode, the CT 20 has a high-precision humidity sensor that temporarily stops the device during operation before condensation occurs.

1. Automatic mode with smart-stop function

- ✓ The humidity sensor prevents condensation
- ✓ Dosage option even beyond the saturation limit
- ✓ Reduces humidity-related damage even with (excessively) high dosages
- ✓ Automatically adjusts to the conditions in the room
- ✓ Maximum protection for humidity-sensitive materials

2. Step mode (Expert mode) with freely programmable disinfection cycles

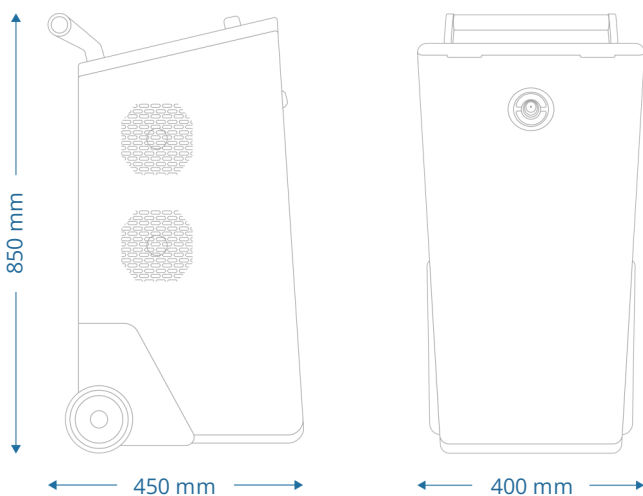
- ✓ High dosages of up to 40 ml/m³ possible
- ✓ Flexible adjustment to individual requirements
- ✓ For difficult tasks, such as EN 17272 conditions



The Expert mode is available for experienced users and applications under difficult conditions or with increased requirements. This makes it possible to distribute the required disinfectant quantity in a freely programmable sequence over 2-4 cycles with 1-3 intermediate pauses.

The dosage for each cycle and the intermediate pause can be selected at the user's discretion. This allows individual disinfection routines for all situations.

This is especially critical when establishing disinfection tasks that go beyond well-established applications.



CT20 technical data

Dimensions	450 x 400 x 850 mm
Weight	Approx. 30 kg
Tank volumes	1 x 5 L canister
Connection	220-240 V, 50/60 Hz
Fogging technology	Compressor, nozzle & turbine
Min. - max. mist output	10 ml/min - 50 ml/min
Min. /max. noise level	60-85 db
Aerosol droplet size	5-15 µm
Visible mist cone	2-5 m (10 ml/min - 50 ml/min)
For room sizes	6 - 600 m ³

Use biocides with caution. Always read the label and product information before use. Our application notes, both in written and verbal form, are based on extensive testing. We provide advice to the best of our current knowledge, but without any obligation insofar as the application and storage are beyond our direct control. Product descriptions or information about the properties of the preparations do not contain any statements concerning liability for any damage.



SANOSIL AG

CH-8634 Hombrechtikon, Switzerland

Tel.: 055 254 00 54

E-mail: service@sanosil.com

www.sanosil.com

