THE DENTAL
SOLUTIONS
COMPANY™

Dentsply Sirona

How Dentsply Sirona Reduces Aerosols

Visible Difference

Reduced Aerosol - Reduced Risk

Avoiding aerosoles by all means possible has become a major aim in the dental industry in the past months. Facing this new challenge has motivated us to develop a solution to create a safer environment for you, your team and your patients. Our goal with this new solution is to remove as many of your concerns regarding aerosols as possible so that you can focus on what matters most, treating your patients.

dentsplysirona.com/reducing-aerosols

The Effect

The solution is as simple as it is effective. A direct comparison (below) clearly shows the outcome of our solution. Whereas the spray mist of our regular contra-angle is wide and fine, the spray mist of our contra-angle with the installed pin is considerably more straight and focused.

Why we did it

Spray air contributes significantly to spray mist in dental instruments. Blocking the spray air leads to more ringed spray, therefore, reducing the risk of contaminated aerosol dispersion. When the treatment is performed properly, a sufficient[1] cooling function with water is provided, thus ensuring that the teeth will not be damaged as a result of the cooling air no longer being accessible. Adjustment of working speed and pressure is highly recommended.

Regular spray mist

New solution with reduced aerosol formation

This solution is also applicable to air-driven turbines, however, treatment with an electric contra-angle is to be preferred at this point as contra-angles emit less aerosol than turbines.

This solution is compatible with hoses of the following Dentsply Sirona Treatment Centers:

- Dentsply Sirona Teneo
- Dentsply Sirona Sinius
- Dentsply Sirona Intego / Intego Pro
- Dentsply Sirona C-Line

Comparison between regular spray (upper turbine) and reduced aerosol formation (lower turbine)

Due to the ideally positioned spray holes in our instruments, this solution works best when used with Dentsply Sirona instruments. The application of this solution with instruments from third-party manufacturers is possible if sufficient cooling can be secured; the blocking of the spray air can have a smaller effect when applied to non Dentsply Sirona instruments.

Note: Our solution does not replace proper PPE and infection and prevention measures.

For additional information on this solution, please contact your local dealer or your Dentsply Sirona representative.

[1] As required by ISO 14457:2017-10 norm.

How to Implement our Solution

How it works

In order to decrease the amount of aerosol dispersed when using a contra-angle or turbine, the amount of air in the cooling spray has to be reduced. For this, a simple pin has been developed. It fits perfectly in the spray air tube at the connection of the hose to the treatment center. The pin blocks the air of the spray, thus aerosol is reduced.

The installation process of the pin is very simple and can be done by the dentist without any additional assistance required.

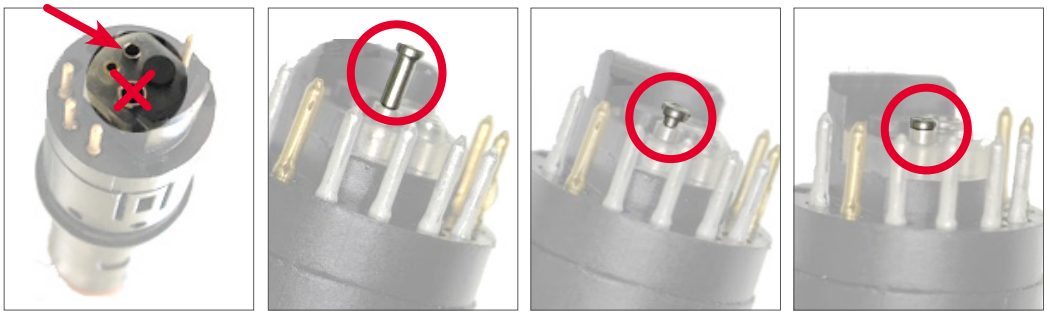
Installation Manual in 6 Steps

1. Disinfect the spray air pin before mounting.

2. Use T1 Spray to wet the pin in order to increases the adhesive effect.

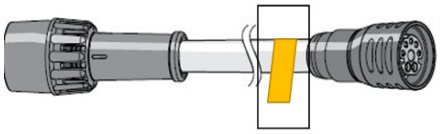
3. Disconnect your motor or turbine supply hose from your treatment center.

4. Insert the pin into the spray air tube up to the stop. (Please take caution that the pin does not fall into the bigger return air canal)



5. Carefully reconnect the hose to the treatment center so that the pin does not fall out.

6. Please mark the hose on the motor/coupling side to visualize that this hose has been modified. This can be done, for instance, with an adhesive tape for sterilization.



Note:
Please test your instruments with the mounted spray air pin prior to using it in the patient's mouth.

Procedural Solution

Preventive
Restorative
Orthodontics
Endodontics
Implants
Prosthetics

Enabling Technology

CAD/CAM
Imaging
Treatment Centers
Instruments

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