

How Dentsply Sirona Reduces Aerosols Visible Difference

Reduced Aerosol - Reduced Risk

Avoiding aerosols 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



Red Band Handpieces in Dentistry

Because of the angulation of our red band handpieces, and the concentrated four nozzle spray, our red band handpieces provide less mist in a more concentrated zone than turbine/air driven options.

Red band handpieces are excellent for gross reduction of tooth structure as they provide an efficient cut while maintaining high precision handling. Many indications that you may be using an air turbine for such as cavity and crown preparation, could be completed beautifully with a red band handpiece. Red bands allow for more controlled precision work at higher speeds than other electric options.

The Pin Solution

Whether you continue to use your highspeed turbine or opt for a red band handpiece, we have a solution to considerably lessen the fine spray mist created.


How it works

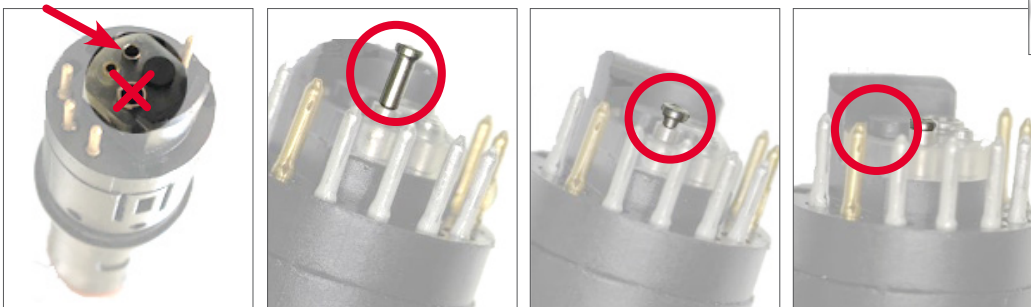
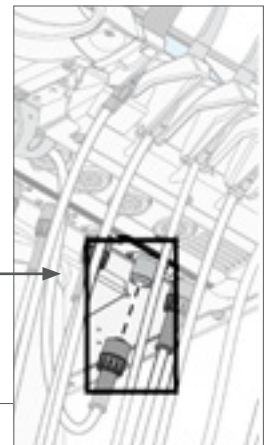
In order to decrease the amount of aerosol dispersed when using a contra-angle or turbine, the amount of air in the cooling spray has to be reduced. For this, a simple pin has been developed. It fits perfectly in the spray air tube at the connection of the hose to the treatment centre. The pin blocks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

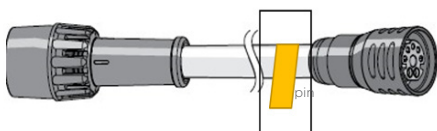
This solution is at no cost to you, to obtain this solution please contact your Dentsply Sirona Specialist.

Installation Manual in 6 Steps:

1. Disinfect the spray air pin before mounting. 
2. Use T1 Spray to wet the pin in order to increase the adhesive effect.
3. Disconnect your motor or turbine supply hose from your treatment centre.
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 centre so that the pin does not fall out.
6. Please mark the hose with the word 'pin' on the motor/coupling side to visualise that this hose has been modified. This can be done, for instance, with an adhesive tape for sterilisation.



Note:

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

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 sufficient¹ 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 the working speed and pressure is highly



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 preferred as contra-angles emit less aerosol than turbines.

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

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



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

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

Looking to Switch to a Red Band?

Our T1 Range combines top of the line performance, with diamond-like carbon ball bearings and a full titanium sleeve for a lightweight powerful option.

Our T2 Comfort range has options in both standard and short lengths for improved ergonomics, without a loss in performance.



NEW: T2 S-Line

The Compact Ergonomic Option

- Significantly shorter; improved ergonomics
- Very light thanks to its compact size
- Smallest head diameter at only Ø 8.7 mm
- For short locking lugs

T2 Line

The Comfortable Solution

- Optimal illumination for excellent visibility
- Lightweight Titanium Sleeve
- Adaptable for motors with light thanks to our ISO-Slider®
- Can be sterilised and thermally disinfected

ANZ Code	5898866	HPT1LINEC200L	HPT2LINEA200L	HPT2SLINEAS200L	HPT3LINEE200
Handpiece	T1 Classic S 200 L	T1 Line C 200 L	T2 Line A 200 L	T2 S-Line AS 200 L	T3 Line E 200
Connection	Classic	E-Type	E-Type	E-Type Short	E-Type
Handpiece Type	Contra-Angle	Contra-Angle	Contra-Angle	Short Contra-Angle	Contra-Angle
Ratio	1:5	1:5	1:5	1:5	1:5
Optics	With Light	With Light	With Light	With Light	No Light
Weight	<60	<60	68g	60g	68g
Spray	4N	4N	4N	4N	4N
Bearings	DLC Long Life	DLC Long Life	Ceramic	Ceramic	Ceramic
Head Dia.	8.7	8.7	8.7	8.7	8.7
Head Height	14.6	14.6	14.6	14.6	14.6
Bur Type	1.6 FG	1.6 FG	1.6 FG	1.6 FG	1.6 FG
RPM	200,000	200,000	200,000	200,000	200,000
Warranty	2 Year Warranty	2 Year Warranty	2 Year Warranty	2 Year Warranty	1 Year Warranty

Contact your Dentsply Sirona Specialist to assist with the pin solution no matter what your handpiece preference is.

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