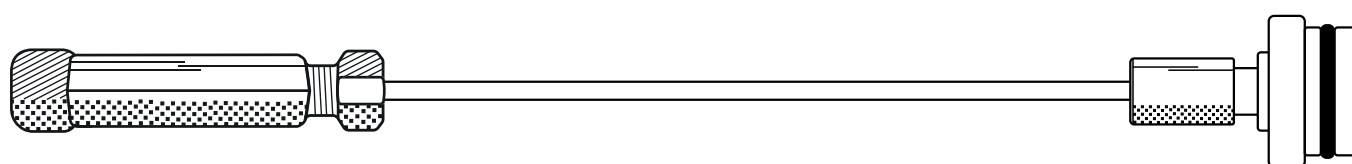


Dr. Maisch

Any Column, Any Size, Any Media



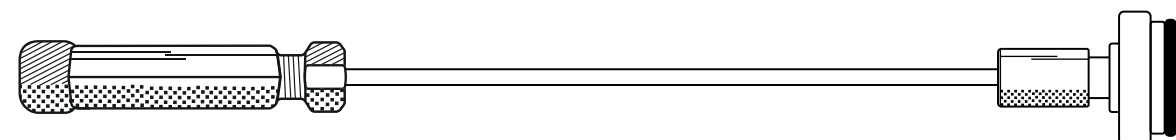
NanoFusion CSX

Pre-Packed Capillary, Female Inlet and CaptiveSpray Outlet
for Easy Connection

MADE BY DR. MAISCH

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NANOFUSION CSX MADE BY DR. MAISCH

From one of the biggest
High-**P**erformance **L**iquid **C**hromatography (HPLC) and
Ultra **H**igh-**P**erformance **L**iquid **C**hromatography (UHPLC)
Column Manufacturers in Europe.

NanoFusion CSX - Why Pulled Tips With an Integrated Emitter?

- **Reduced Dead Volume:** Integrated emitters eliminate post-column connections, minimizing band broadening and improving peak sharpness.
- **Improved Ionization Efficiency:** The direct connection to the electrospray tip provides a more stable spray, leading to better signal intensity and sensitivity.
- **Higher Overall Sensitivity:** Lower sample losses and reduced dispersion enable improved detection of low-abundance analytes, which is especially beneficial in proteomics.

Why NanoFusion CSX? - Built for High-Resolution Proteomics

Robust, Integrated Emitter Design for Consistent Results.

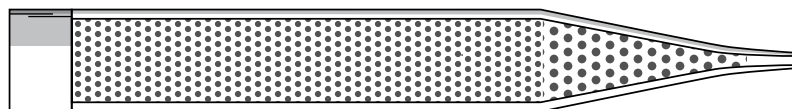


Figure 1: Integrated Emitter Design.

NanoFusion CSX columns are designed for advanced proteomics workflows requiring high sensitivity and reproducibility.

- Available Inner Diameters (ID):
 - 50 μm
 - 75 μm
 - 100 μm
 - 150 μm
- Available Column Lengths:
 - 50 mm to 500 mm

Key Advantages

- Zero Dead-Volume Female Inlet.

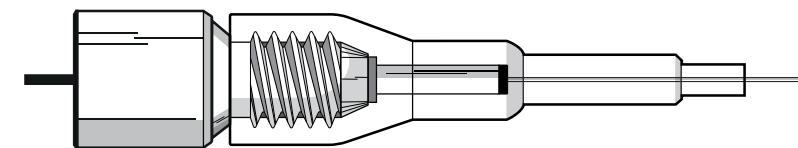


Figure 2: Dr. Maisch Column Coupler or Compatible Fitting and Female Inlet.

- Ensures Stable, Leak-Free Operation.
- Delivers Reliable Performance Under High Pressure (up to 1000 bar).
- Allows Effortless Connection to a Dr. Maisch Column Coupler or Compatible Fittings (e.g., Thermo Fisher Scientific NanoViper™ Fingertight).
- Optimized for Bruker® timsTOF Platforms.
 - Engineered Specifically for Seamless Integration with timsTOF and CaptiveSpray®.
- Plug-and-Play Compatibility.
 - Pre-Configured Design Eliminates Setup Complexity and Ensures Immediate, Stable Operation.

Why NanoFusion CSX from Dr. Maisch? - Premium Sub-2 µm C18 Materials

NanoFusion CSX columns are packed with high-performance, sub-2 µm C18 materials to ensure ultrahigh efficiency and stable MS performance. Sub-2 µm C18 particles deliver sharp peaks and increased peptide identification. Featuring Exsil Mono 100 C18, 1.35 µm for best-in-class chromatographic performance.

Available Media:

- ReproSil-Pur 120 C18-AQ, 1.9 µm
 - Strong Retention of Hydrophilic Peptides and Excellent Aqueous Stability.
- ReproSil Saphir 100 C18, 1.5 µm
 - Maximum Efficiency with Low MS Bleed for Highly Sensitive Analyses.
- Exsil Mono 100 C18, 1.35 – 1.7 µm
 - Monodisperse Silica Technology for Exceptional Batch-to-Batch Consistency.

These materials provide:

- High Plate Counts.
- Excellent Peak Capacity.

Reliable performance across complex peptide mixtures.

Table 1: Alternative Media.

Media Code	Description
6136973	Exsil Mono 100 C18, 1.35 µm
5136782	Exsil Mono 100 C18, 1.5 µm
6136847	Exsil Mono 100 C18, 1.7 µm
ra115.9e	ReproSil Saphir 100 C18, 1.5 µm
r119.aq	ReproSil-Pur 120 C18-AQ, 1.9 µm

Seamless Integration into Bruker® Workflows

NanoFusion CSX columns are fully compatible with Bruker® ion sources:

- CaptiveSpray®
- CaptiveSpray 2®
- CaptiveSpray Ultra®

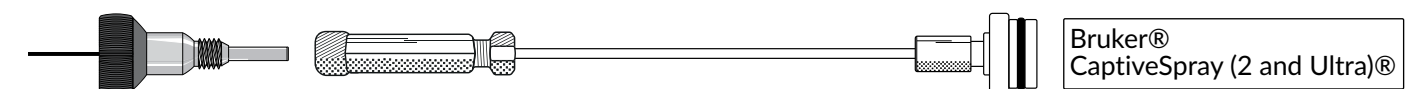


Figure 3: Connection of the NanoFusion CSX to a Bruker® CaptiveSpray (2 and Ultra)® Ion Source.

ALTERNATIVE TO AURORA® CSI CAPILLARY COLUMNS FROM IONOPTICKS

Table 2: Capillary Columns from IonOpticks and Dr. Maisch.

IonOpticks		Dr. Maisch		Length [mm]	ID [µm]
Part Number (PN)	Description	Part Number (PN)	Description		
AUR4-5075C18-CSI	Aurora® Rapid™ 5×75 CSI C18 UHPLC Column, 1.7 µm, Generation 4	ra115.9e.fcs050.075.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 50 mm x 75 µm	50	75
AUR4-50150C18-CSI	Aurora® Rapid™ 5×150 CSI C18 UHPLC Column, 1.7 µm, Generation 4	ra115.9e.fcs050.150.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 50 mm x 150 µm	50	150
AUR4-8075C18-CSI	Aurora® Rapid™ 8×75 CSI C18 UHPLC Column, 1.7 µm, Generation 4	ra115.9e.fcs080.075.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 80 mm x 75 µm	80	75
AUR4-80150C18-CSI	Aurora® Rapid™ 8×150 CSI C18 UHPLC Column, 1.7 µm, Generation 4	ra115.9e.fcs080.150.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 80 mm x 150 µm	80	150
AUR4-15075C18-CSI	Aurora® Elite™ 15×75 C18 UHPLC Column, 1.7 µm, Generation 4	ra115.9e.fcs150.075.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 150 mm x 75 µm	150	75
AUR4-150150C18-CSI	Aurora® Elite™ 15×150 C18 UHPLC Column, 1.7 µm, Generation 4	ra115.9e.fcs150.150.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 150 mm x 150 µm	150	150
AUR4-250075C18-CSI	Aurora® Ultimate™ 25×75 C18 UHPLC Column, 1.7 µm, Generation 4	ra115.9e.fcs250.075.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 250 mm x 75 µm	250	75
AUR4-250150C18-CSI	Aurora® Ultimate™ 25×150 C18 UHPLC Column, 1.7 µm, Generation 4	ra115.9e.fcs250.150.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 250 mm x 150 µm	250	150
AUR4-600075C18-CSI	Aurora® Frontier™ 60×75 CSI C18 UHPLC Column, 1.7 µm, Generation 4	ra115.9e.fcs600.075.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 600 mm x 75 µm	600	75

ORDERING INFORMATION

Table 3: Ordering Information for NanoFusion CSX, 75 µm ID packed with ReproSil Saphir 100 C18, 1.5 µm.

Part Number (PN)	Description	Length [mm]	ID [µm]	Quantity
ra115.9e.fcs050.075.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 50 mm x 75 µm	50	75	1
ra115.9e.fcs050.075.04	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 50 mm x 75 µm	50	75	4
ra115.9e.fcs050.075.10	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 50 mm x 75 µm	50	75	10
ra115.9e.fcs080.075.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 80 mm x 75 µm	80	75	1
ra115.9e.fcs080.075.04	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 80 mm x 75 µm	80	75	4
ra115.9e.fcs080.075.10	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 80 mm x 75 µm	80	75	10
ra115.9e.fcs150.075.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 150 mm x 75 µm	150	75	1
ra115.9e.fcs150.075.04	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 150 mm x 75 µm	150	75	4
ra115.9e.fcs150.075.10	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 150 mm x 75 µm	150	75	10
ra115.9e.fcs250.075.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 250 mm x 75 µm	250	75	1
ra115.9e.fcs250.075.04	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 250 mm x 75 µm	250	75	4
ra115.9e.fcs250.075.10	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 250 mm x 75 µm	250	75	10
ra115.9e.fcs600.075.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 600 mm x 75 µm	600	75	1
ra115.9e.fcs600.075.04	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 600 mm x 75 µm	600	75	4
ra115.9e.fcs600.075.10	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 600 mm x 75 µm	600	75	10

ORDERING INFORMATION

Table 4: Ordering Information for NanoFusion CSX, 150 µm ID packed with ReproSil Saphir 100 C18, 1.5 µm.

Part Number (PN)	Description	Length [mm]	ID [µm]	Quantity
ra115.9e.fcs050.150.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 50 mm x 150 µm	50	150	1
ra115.9e.fcs050.150.04	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 50 mm x 150 µm	50	150	4
ra115.9e.fcs050.150.10	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 50 mm x 150 µm	50	150	10
ra115.9e.fcs080.150.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 80 mm x 150 µm	80	150	1
ra115.9e.fcs080.150.04	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 80 mm x 150 µm	80	150	4
ra115.9e.fcs080.150.10	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 80 mm x 150 µm	80	150	10
ra115.9e.fcs150.150.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 150 mm x 150 µm	150	150	1
ra115.9e.fcs150.150.04	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 150 mm x 150 µm	150	150	4
ra115.9e.fcs150.150.10	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 150 mm x 150 µm	150	150	10
ra115.9e.fcs250.150.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 250 mm x 150 µm	250	150	1
ra115.9e.fcs250.150.04	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 250 mm x 150 µm	250	150	4
ra115.9e.fcs250.150.10	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 250 mm x 150 µm	250	150	10
ra115.9e.fcs600.150.01	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 600 mm x 150 µm	600	150	1
ra115.9e.fcs600.150.04	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 600 mm x 150 µm	600	150	4
ra115.9e.fcs600.150.10	NanoFusion CSX, ReproSil Saphir 100 C18, 1.5 µm, 600 mm x 150 µm	600	150	10

Other dimensions available on request.

ORDERING INFORMATION

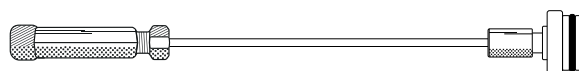
Table 5: Alternative Media.

Media Code	Description
6136973	Exsil Mono 100 C18, 1.35 µm
5136782	Exsil Mono 100 C18, 1.5 µm
6136847	Exsil Mono 100 C18, 1.7 µm
ra115.9e	ReproSil Saphir 100 C18, 1.5 µm
r119.aq	ReproSil-Pur 120 C18-AQ, 1.9 µm

Dr. Maisch

Any Column, Any Size, Any Media

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