





Conditioning instructions for Teknokroma capillary columns

Teknokroma capillary columns are preconditioned and individually tested. Each column is provided with its own quality control test report.

1. Install the column and set the inlet carrier gas pressure based on the column dimensions (see table below). Use high purity carrier gas only (oxygen and moisture-free).
2. Check for leaks.

NOTE: At elevated temperatures traces of oxygen and humidity can damage irreversibly the column.

3. Purge the column with carrier gas at 40°C for at least 15 min. Raise the oven temperature up to the maximum isothermal temperature of the column (see column quality control report) or up to 10-30°C above the maximum operating temperature of the analysis -whichever is lower- at a rate of 2-5°C/min.

4. Hold this temperature for 1h-2h or until the baseline stabilizes.

NOTE: Working with highly sensitive detectors (ECD, MSD, etc.) might require longer conditioning periods.

NOTE: Columns with thick phase films may need an extended conditioning.



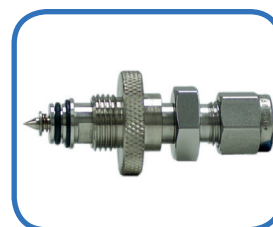
Typical Column Head Pressures*

| Length | I.D. | | | | |
|--------|---------|---------|---------|---------|---------|
| | 0.10 mm | 0.20 mm | 0.25 mm | 0.32 mm | 0.53 mm |
| 10 | 25 psi | 6 psi | 4 psi | 2 psi | 0.9 psi |
| 15 | 39 psi | 9 psi | 6 psi | 4 psi | 1.4 psi |
| 25 | 67 psi | 15 psi | 9 psi | 6 psi | 2.3 psi |
| 30 | 82 psi | 18 psi | 11 psi | 7 psi | 2.8 psi |
| 50 | | 32 psi | 20 psi | 12 psi | 5 psi |
| 60 | | 39 psi | 24 psi | 14 psi | 6 psi |
| 105 | | | 40 psi | 28 psi | 9 psi |

*For optimal carrier gas linear velocity: 20 cm/s for He, and 40 cm/s for H₂.

RELATED PRODUCTS

YOUR ANALYSIS MATTERS



SG-SGT-F0301
SG-SGT-B0010-B8

Triple Filter (O₂/Moisture/Hydrocarbons)
1-Position Baseplate - 1/8" Brass

SG-SGT-CO1005
SG-SGT-CO2002

Click-On Inline Triple Trap (Oxygen/Moisture/Hydrocarbons) Cartridge-Stainless Steel
Click-On Connectors 1/8" Brass