

Headspace Sampler

HS-20 NX series

The HS-20, developed as the best solution for volatile component analysis, has been improved and introduced as the NX series. The excellent performance and user-friendly design provide a powerful solution for scientists in both research and quality control laboratories.



Headspace Sampler

HS-20 NX series

Get ready for the Next (NX) Level of...

- Performance Excellence
- Operational Efficiency
- Compliance Ease
- Expectation and Beyond

The NX Level of Performance Excellence

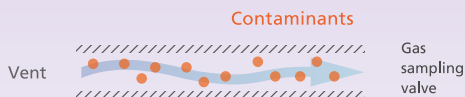
Ultra-low Carryover for Maximum Reliability

Sample diffusion from the vent channel may be a problem for typical headspace samplers, but not HS-20 NX!

The Flush Pilot function in HS-20 NX utilizes a unique isolation gas flow to circumvent unwanted diffusion and hence reduces the carryover of highly adsorptive compounds by 90%!

HS-20 NX is thus an inherently clean technique to bring you reliable and reproducible results. So now, skip the need for repeating blank runs – you can now focus your GC runs on samples!

Conventional HS



HS-20 NX



Flush Pilot uses a unique isolation gas flow, resulting in ultra-low carryover

The NX Level of Performance Excellence

Excellent Reproducibility for Each Analysis

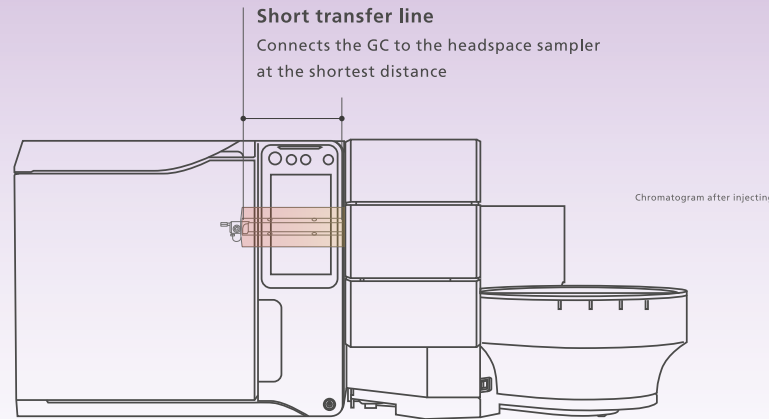
Get consistent results every time with our high-quality features:

1. Unique Sample Vial Delivery System

Our inverted oven system maintains high temperature stability during repeated analyses

2. NX Transfer Line

The super short transfer line ensures minimum adsorption of analytes and maximum suppression of peak broadening



NX Transfer Line is super short and inert, improving performance to the next level

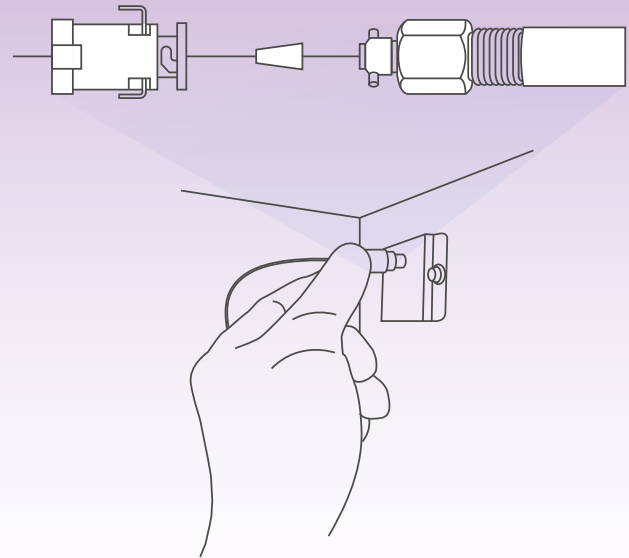
The NX Level of Operational Efficiency

Effortless Maintenance with a “Click”

Breeze through the routine system maintenance and column replacements with our ClickTek™ NX Connector!

Whether you are a newcomer or an experienced user, ClickTek NX enables you to connect columns easily and without tools. With the uniform quality of connection, you will get higher consistency in system performance and analytical results!

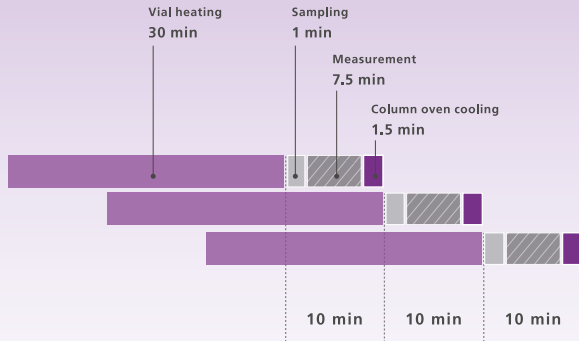
With a “click” sound, you will know that the connection is secure and leakage-free, giving you the experience of superior usability like never before.



ClickTek NX greatly simplifies column connection

The NX Level of Operational Efficiency

Automatic Overlap Analysis for High Productivity

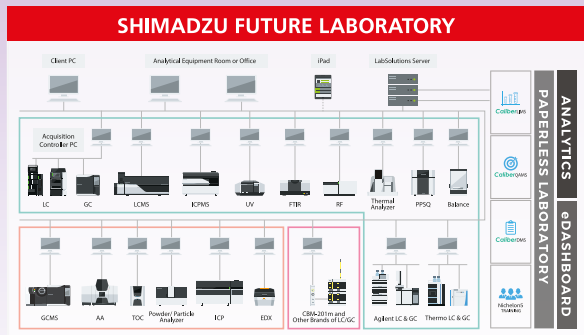


Easy access and automatic overlap analysis

Require longer vial heating times for analysis? Don't worry – with HS-20 NX automatic overlap analysis, the total analysis time is optimized so that no time is wasted.

For example (see illustration), a 30 min sample preparation time will only be encountered once at the beginning of the batch. Thereafter, each run will only take 10 min - thanks to the "prep ahead" function!

HS-20 NX can also hold up to 12 vials, so you can get that much-needed boost in productivity!



Seamless data analysis and management with LabSolutions CS

The NX Level of Compliance Ease

Safe, Secure Data with Total Compliance

Protect your hard-earned data with LabSolutions™ and GCMSSolution™:

- Centralized Data Management
- Maximized Data Integrity Protection
- FDA 21 CFR Part 11 compliance

If you're using 3rd party software, we got you covered as well – support is available to make sure HS-20 NX is compatible for use! Now, our HS-20 NX is your perfect partner in analytical analysis, even under strict compliance settings!

The NX Level of Compliance Ease

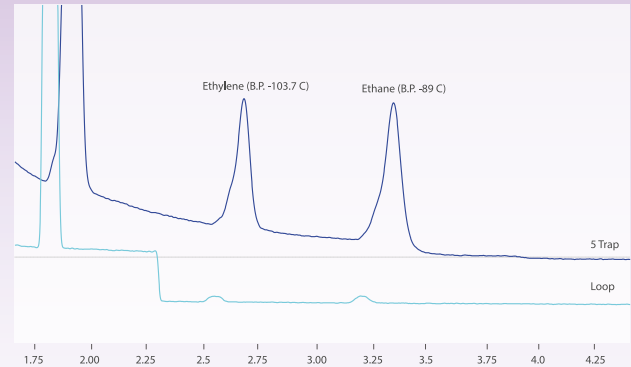
Switch to Ultra-sensitive Analysis Anytime*

HS-20 NX offers you the flexibility to choose between trap and loop mode for analysis.

With the trap model, you can use the electronic cooling trap for pre-concentration, thereby achieving 10 – 100 times higher sensitivity than the loop mode!

This capability to deliver ultra-sensitive analysis is crucial given the increasingly stringent requirements in analysis.

Choose HS-20 NX to meet your present needs and future challenges!



Trap Model enhances sample enrichment using an electronic cooling trap

*Function available only when using HS-20 NX trap

The NX Level of Expectation and Beyond

Quality Analysis with Quality Consumables

HS-20 NX brings the analysis performance to the next level while still maintaining easy usability.

Rigorously tested and proven, Shimadzu's consumables can maximize your GC/GCMS system performance:

1. Xtra Low Bleed HS Septa

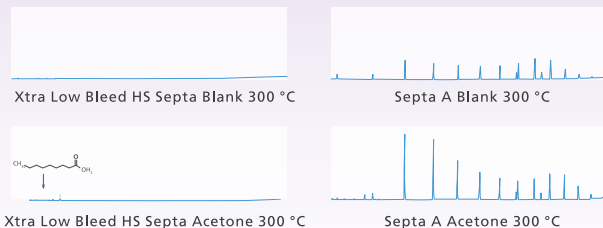
With high heat resistance, it does not elute much bleed components even at 300 °C, making it suitable for high temperature applications

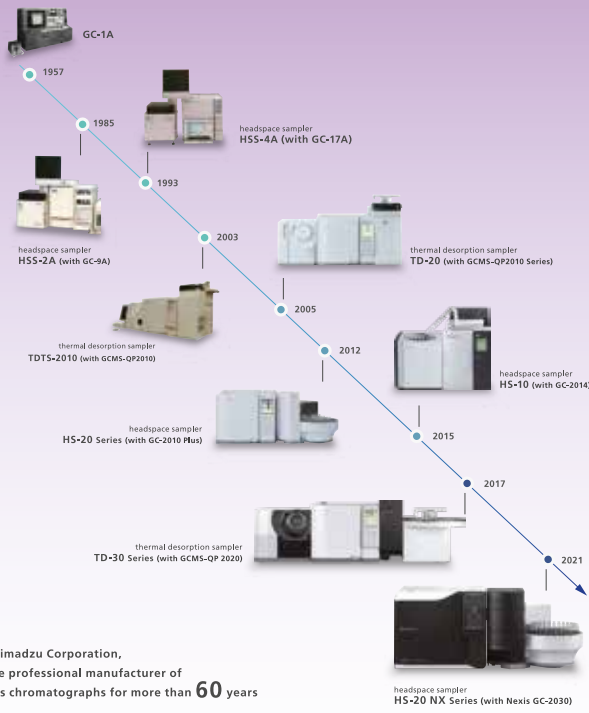
2. Xtra Life HS Needle, Anti-Corrosion

When samples, e.g., blood, contain strong acids, our acid-resistant HS needles can prevent corrosion thereby ensuring stable analysis



Analysis Comparison of Xtra Low Bleed HS Septa and Septa A





Shimadzu Corporation,
 the professional manufacturer of
 gas chromatographs for more than **60** years

The NX Level of Expectation and Beyond

Over 60 Years of Innovation

Shimadzu has been developing and manufacturing gas chromatograph products for more than half a century in its development over 140 years.

To continually meet your analytical needs in analysis, we have progressively launched various GC application systems with excellent tradition and outstanding qualities.

HS-20 NX delivers the Next Level of Performance Excellence, Operational Efficiency, and Compliance Ease as a powerful solution to your work, whether in research or quality control laboratories

