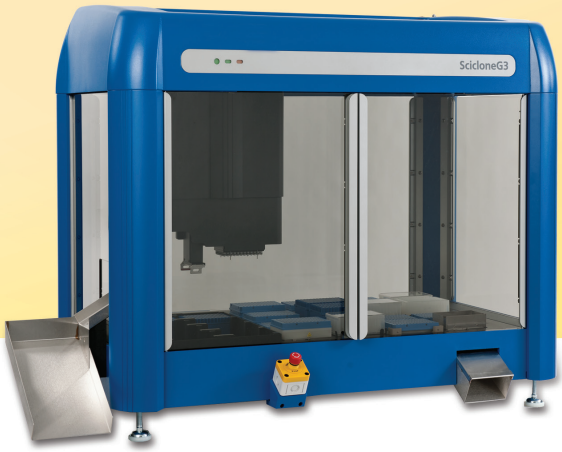
Sciclone NGSx Workstation

PRODUCT NOTE

Next Generation Sequencing



Key Features

- Flexibility to run 8-96 samples per run
- Recessed deck for increased tip capacity
- Integrated barcode reader
- Four independently programmable thermal locations for heating and cooling
- Validated methods for multiple chemistries: RNA-Seq, Exome, ChIP-Seq, and many more

Sciclone NGSx Workstation for High Throughput Sequencing Sample Prep Applications

Next generation sequencing (NGS) technologies are enabling science at unprecedented rates. As the cost of sequencing declines, throughput continues to increase and the number of applications for which sequencing data can be used is expanding. The Sciclone® NGSx liquid handling workstation was designed for high throughput, walkaway NGS sample preparation. The deck design and intuitive interface virtually eliminate cross contamination and user error. In addition, the Sciclone NGSx offers the flexibility to use dozens of validated, builtin protocols for the vendor or platform of your choice. These automation-friendly library sequencing methods will have you up and running samples the first week. Our expert team of application scientists continue to partner with the scientific community to expand our portfolio of validated methods and develop applications for future requirements.

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For the Better

Standardized Configuration

A standardized deck configuration allows for complete liquid handling, thermal control and waste management for the most complex application requirements in next generation sequencing sample preparation protocols. The system has validated protocols for several NGS applications, including whole genome sequencing, RNA seq, ChIPseq, targeted resequencing and amplicon sequencing.

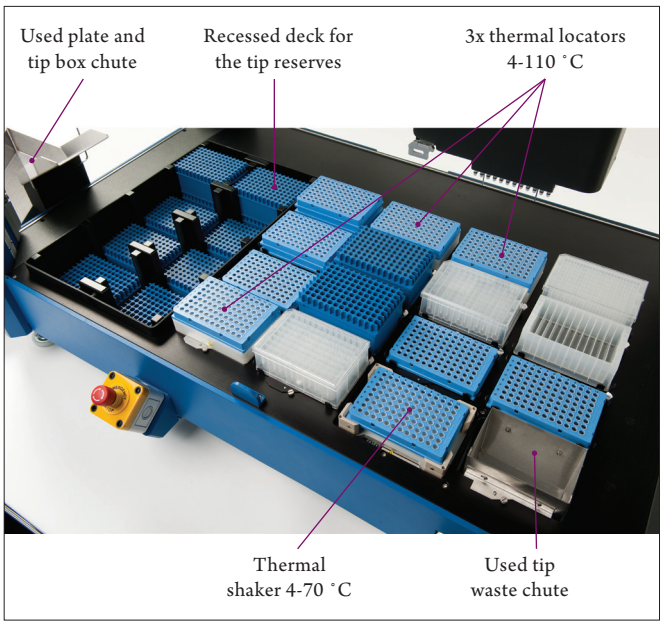

Figure 1. Standardized deck configuration for even the most complex sequencing applications. Recessed deck for additional tip storage enables complete walkaway automation.

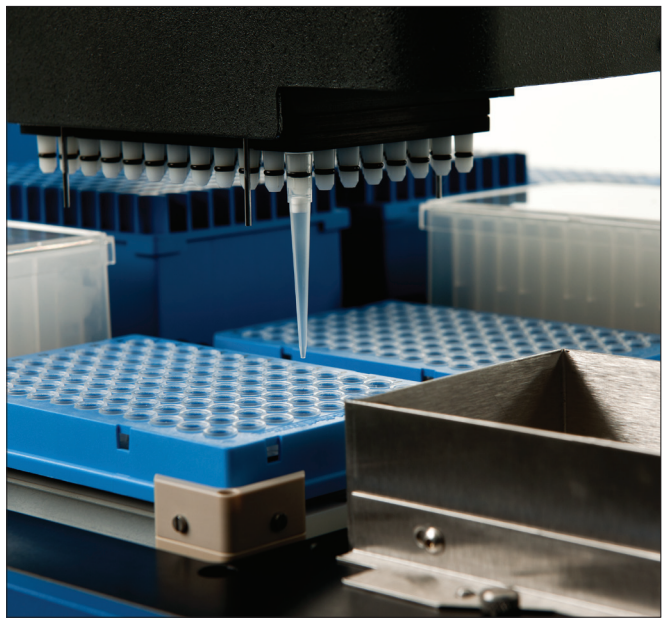

Figure 2. Flexible tip management saves valuable time and reducing consumption.

Complete Walkaway Automation without Complexity

User intervention to refresh tips during sample prep applications can lead to protocol variability and inconsistent results. Complete elimination of sample contamination is accomplished with the use of barrier tips.

The recessed deck will accommodate tip reserves of up to 24 racks of 96 tips. Increased capacity combined with a fully accessible gripper offers a simple alternative to integrated stackers or other hardware, and minimizes the axes of motion for the instrument resulting in fewer opportunities for error and a more robust platform.

Application Specific Consumable Kits for the Sciclone NGS Workstation

Take the hassle out of buying NGS consumables for your Sciclone NGS workstation with customized application specific consumable kits.

The Sciclone NGS and NGSx workstations run 8 to 96 samples in multiples of eight. The number of plates, lids, and reservoirs required to complete the run is constant, regardless of the number of samples. We've put together application specific kits that contain exactly what you need for each run.

NGS Consumables Kit A (Part Number 6060008)

A complete set of high quality consumables sufficient for a single run of up to 96 samples through the standard Sciclone NGS/ NGSx workflows, intended for the following reagent platforms:

Reagent Platform	Product Number
Illumina® TruSeq™ DNA Sample Prep	FC-122-2001 / FC-122-2002
KAPA HTP DNA Library Prep for Illumina sequencing	KK8234
NEBNext® DNA Library Prep for Illumina sequencing	E6040

NGS Consumables Kit B (Part Number 6060009)

A complete set of high quality consumables sufficient for a single run of 96 samples through the 2-day Sciclone NGS/NGSx workflows, intended for the following reagent platforms:

Reagent Platform	Product Number
Illumina® TruSeq™ RNA Sample Prep	RS-122-2001 / RS-122-2002
Illumina® TruSeq™ Stranded Total RNA LT Sample Prep	RS-122-2201 / RS-122-2202 / RS-122-2301 / RS-122-2302
Illumina® TruSeq™ Stranded mRNA LT Sample Prep	RS-122-2101 / RS-122-2102 / RS-122-2103

NGS Consumables Kit C (Part Number 6060010)

A complete set of high quality consumables sufficient for a single run of up to 96 samples through the 4-day Sciclone NGS/NGSx workflows, intended for the following reagent platforms:

Reagent Platform	Product Number
Agilent® SureSelect^{XT} Library Prep and Target Enrichment for Illumina Sequencing	G9641B / G9641C / G9642B / G9642C
Agilent® SureSelect^{XT2} Library Prep and Target Enrichment for Illumina Sequencing	G9621A / G9621B / G9621C
Nimblegen™ SeqCap™ EZ Target Enrichment	05 634 261 001
With TruSeq™ DNA Library Prep	FC-122-2001 / FC-122-2002
With KAPA HTP DNA Library Prep	KK8234

What's Included?

Consumables	Kit A 6060008 Quantities	Kit B 6060009 Quantities	Kit C 6060010 Quantities	Individual Re-order Number	Quantity for Individual Re-order
Polypropylene deep-well storage plate, 96 x 2 mL square well, v-bottom	3	3	8	6008880	25
Polypropylene deep-well reservoir, 12 column, 21 mL	3	3	7	6008700	25
Universal lid	20	20	20	6000030	100
Hard-Shell® thin-wall 96-well skirted PCR plate (blue)	20	30	30	6008870	50
TopSeal adhesive seal for PCR plate	-	-	10	6050174	100
Polypropylene storage block 96 x 1 mL, round bottom	-	-	2	6008900	100
Polypropylene low-volume microplate, 384 x 35 µl, round bottom	2	2	2	6008890	50
Polypropylene storage plate, 96 x 450 µl, v-bottom	-	-	2	6008299	200

For Research Use Only. Not for use in diagnostic procedures.

For more information, please visit our website at www.perkinelmer.com/ngs

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