Brooks LIFE SCIENCES

Sample Tube Consumables and Instruments Catalogue

fluidX™

From Brooks LIFE SCIENCES

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A Guide to our FluidX Next-Generation Tubes

As we expand our range of FluidX Next-Generation tubes, we are introducing a new naming convention standard. This will include updating the product names and descriptions of our existing range and our new product introductions.

Jacket Tri-coded

Each tube features a permanent 2D-code laser etched in high-contrast on the tube base, a permanent 1D (linear barcode) and Human-Readable Number laser etched in high-contrast on the tube side.

The original jacket tube is manufactured using a two-piece manufacturing process which requires additional assembly. All three codes are identical and auditing processes guarantee all three codes match. Our standard 2D option is black on white.

Next-Generation Jacket Tri-coded

Each tube features a permanent 2D-code laser etched in high-contrast on the tube base, a permanent 1D (linear barcode) and Human-Readable Number laser etched in high-contrast on the tube side.

The Next-Generation jacket tube is manufactured using an advanced manufacturing process which results in a one-piece jacket tube. All three codes are identical and auditing processes guarantee all three codes match. All three codes are identical and auditing processes guarantee all three codes match. Our standard 2D option is black on white.

Next-Generation 2D-coded Jacket

Our Next-Generation jacket tubes are also available with a 2D-code laser etched on the base only. Allowing users to add additional information or second identifier in high-contract to the tube side. Our standard 2D option is black on white.

Dual-coded tubes

Each tube features a permanent 2D-code and Human Readable Number laser etched in high-contrast on the tube base.

The Next-Generation Dual-coded tube is manufactured using an advanced manufacturing technique used to integrate 2 resin colors into the same tube for high resolution coding.

Both codes are identical and auditing processes guarantee both codes match.

Our standard 2D option is white on black.

Non-coded tubes

Simply come as they are

Glossary of Terms

2D Datamatrix code

Unique pattern of squares, dots, hexagons and other geometric shapes printed on the base of a tube

1D-code / Linear barcode

Unique barcode represented by parallel lines of different widths and spacings printed on the side of a tube, SBS rack or CryoBox. Our standard code is code 128.Code 128 is able to encode alpha-numeric data

2D-coded

2D-code on tube base

Dual-coded

2D-code and Human-Readable Number on tube base

Tri-coded

2D-code on tube base, 1D (linear barcode) and Human-Readable Number on tube side

Jacket tube

Standard tube with a fixed black cover to facilitate rapid code recognition and reading

Next-Generation tube

Next-Generation manufacturing technique used to integrate 2 resin colors into the same tube for high resolution coding.

External Thread

Thread is on the outside of the tube so there is no loss in working volume when a cap is added, saving valuable freezer space. FluidX external thread caps feature a double start thread. The thread is fully engaged after a maximum rotation of 180o, making the cap easier to use especially in automated environments.

Internal Thread

Thread is on the inside of the tube. Next-Generation manufacturing process means our co-molded tubes

Introduction

ALL ABOUT THE SAMPLE!

As a global leader in innovative sample management solutions Brooks Life Sciences is all about the sample.

Working across a wide range of industries Brooks Life Sciences offers unparalleled knowledge and experience of 2D-coded sample storage tubes, readers and sample management systems. As part of the team that developed the original 2D-coded sample tubes in 1999, we have been at the global forefront of developing sample storage consumables and instruments for nearly 20 years and we continue our philosophy of innovation to this day.

In addition to the innovation behind our products, we are committed to providing the highest levels of customer service, support and quality. Our Technical Support Team provides expert assistance, making sure our products give the reliable and optimal performance you expect.

We believe that a quality sample is the cornerstone in the generation of reliable, reproducible and quantifiable data - which is why Brooks Life Sciences is **all about the sample.**

FluidX Sample Storage Consumables and Devices

FluidX tubes are available in a range of formats, including racked, loose, bulk, capped and uncapped. Our robust code management system ensures each and every code is permanently affixed, unique and never duplicated. Tubes are suitable for applications ranging from +121°C to -196°C.

All FluidX tubes are developed with broad compatibility in mind, performing without compromise in conjunction with automated code reading, capping and sample management systems from FluidX and all other industry-recognized manufacturers.

KEY FEATURES

Our coding systems are designed to deliver the highest levels of sample security and labeling flexibility. We offer tubes with a choice of code, either 2D-code, 1D (linear barcode) or Human Readable Number (HRN). Our Tri-coded tubes have all three options whilst our Dual-coded tubes, can have a 2D-code and Human Readable Number on the tube base or side. A robust code management system ensures each and every code is unique and never duplicated, preventing any possibility of misidentification involving your samples.

All FluidX polypropylene sample storage tubes sealed with a screw cap are suitable for use in cryogenic storage conditions.

Superior Datamatrix code quality:
FluidX sample storage tubes are easy to read even in harsh conditions or when damaged. Our 2D-codes adhere fully to the ECC200 standard. All codes are generated using the latest and most sophisticated error correction methods and high quality, permanent laser etching provides sharp detail.

Every tube is quality checked to ensure they meet our exacting standards for readability.

Excellent Sealing: Tubes work equally well with either TPE septum or screw caps. A double start thread engages in a maximum rotation of 180°, facilitating automation.

Ideal for Cold Storage: Temperature range from -196°C (with screw cap) to 121°C. All our polypropylene tubes are suitable for cryogenic storage, but not for submersion in liquid phase nitrogen.

Automation Friendly:
Screw capped tubes are compatible with our range of cappers and decappers, includung our IntelliXcap range. Available in 24, 48, and 96 format to automatically remove and re-cap a complete rack of tubes. The TwistLock feature prevents the tubes rotating in the rack during capping and de-capping.

Integration friendly

CHOICE OF CODING OPTIONS

Next-Generation Jacket Tri-coded:

Each tube features a permanent 2D-code laser etched in high-contrast on the tube base, a permanent 1D (linear barcode) and Human-Readable Number laser etched in high-contrast on the tube side.

The Next-Generation jacket tube is manufactured using an advanced manufacturing process which results in a one-piece jacket tube. All three codes are identical and auditing processes guarantee all three codes match. Our standard 2D option is black on white.

Jacket Tri-coded:

Each tube features a permanent 2D-code laser etched in high-contrast on the tube base, a permanent 1D (linear barcode) and Human-Readable Number laser etched in high-contrast on the tube side.

The original jacket tube is manufactured using a two-piece manufacturing process which requires additional assembly. All three codes are identical and auditing processes guarantee all three codes match. Our standard 2D option is black on white.

Next-Generation Dual-coded:

Each tube features a permanent 2D-code and Human-Readable Number laser etched in high-contrast on the tube base or side.

The Next-Generation Dual-coded tube is manufactured using an advanced manufacturing technique used to integrate 2 resin colors into the same tube for high resolution coding.

Both codes are identical and auditing processes guarantee both codes match.

Our standard 2D option is white on black.

Non-coded - simply come as they are.

2D Datamatrix code – unique pattern of squares, dots, hexagons and other geometric shapes printed on the base of a tube.

1D-coded / Linear barcode - unique barcode represented by parallel lines of different widths and spacings printed on the side of a tube, SBS rack or CryoBox. Our standard code is code 128. Code 128 is able to encode alpha-numeric data

2D-coded – 2D-code on tube base.

Dual-coded – 2D-code and Human-Readable Number on tube base or side.

Tri-coded – 2D-code on tube base, 1D (linear barcode) and Human-Readable Number on tube side.

Jacket tube – standard tube with a fixed black cover to facilitate rapid code recognition and reading.

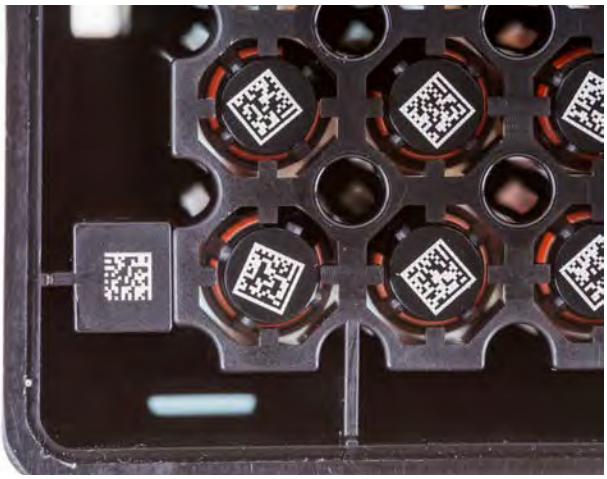
Next-Generation – Next-Generation manufacturing technique used to integrate 2 resin colors into the same tube for high resolution coding.

SBS Storage Rack Options

FluidX tubes are compatible with industry standard SBS sized racks in either: 24, 48, 96, 240 or 384 format. Dependent upon tube type, the following rack options are available.

Dual-Coded
(white on black)

2D-Coded
(black on white)



TwistLock:

prevents tubes rotating within the rack to enable automated capping and de-capping of screw caps. TwistLock is provided as standard with the option available to remove.

TwistLock

LidLock:

racks fitted with a LidLock latch are designed to withstand a 1m drop for added sample security.

LidLock

TubeLock:

tubes can be locked into the rack to prevent falling out, even when there is no lid present. Tubes can be placed in either locked or unlocked positions. TubeLock is used in manual workflows and is activated by applying pressure to the tube top, clicking the tube into place. Racked tubes can be ordered either pre-locked or non-locked.

TubeLock

Automatic Rack Orientation:

racks can be supplied with a unique 2D-code identifier which can be read at the same time as the tube 2D-code. This provides automatic rack orientation and more secure sample tracking.

Direct Laser Etching:

a cutout window on the rack sides allow the linear barcode to be read more easily; linear barcodes can be laser etched directly onto racks.

Cryo Racks

In addition to industry standard SBS racks, a range of tube and application specific cryo racks are available. Each cryo rack incorporates:

- Open bottom for 2D-code decoding on FluidX Perception HD LF reader
- Direct laser etched 1D linear barcode and 2D rack ID on base of rack.

9x9 Cryo Storage Racks

- 136.2mm x 136.2mm polycarbonate cryo rack option for cryogenic sample storage
- Holds 81 tubes in 9 x 9 array

9 x 9 rack

10x10 Cryo Storage Racks

- 136.2mm x 136.2mm polycarbonate cryo rack option for cryogenic sample storage
- Holds 100 tubes in 10 x 10 array

10 x 10 rack

14 x 14 Cryo Storage Racks

- 136.2mm x 136.2mm polycarbonate cryobox rack option for cryogenic sample storage
- Holds 196 tubes in 14 x 14 array

WARNING

Do not store any FluidX tubes in liquid phase nitrogen

Ingress of nitrogen into the tube can occur causing the tube to rupture when taken out of storage

May cause injury and loss of tube contents.

14 x 14 rack

Anatomy of a FluidX Tube (Internal Cap)

FluidX 96-format, Internal Thread, Next-Generation Dual-coded tubes have a range of features that are only possible with advanced manufacturing techniques. Next-Generation co-molded caps offer a far superior seal over traditional O-ring caps, which can 'pop' when a sample is frozen or the cap is overtightened.

Internal Threaded Cap:

- Automation friendly
- Co-molding prevents o-ring 'popping'
- Our most secure internal threaded cap

High Quality Virgin Polypropylene:

- No detectable leachables or extractables
- Manufactured in ISO Class 8 clean-room environment
- Endotoxin, DNase/RNase, heavy metals & animal free

Clear Window:

- Allows visual inspection
- Optional space to print direct due to high quality manufacturing

2D-coded:

- 2D-code and Human-Readable Number (HRN) on tube base
- Enables whole rack or single tube reading
- High contrast enabling reliable reading
- Permanent laser etching

Anatomy of a FluidX Tube (External Cap)

The FluidX External Thread Next-Generation Jacket Tri-coded tube offers our most secure seal. This highly secure design also offers significant benefits over internal thread caps including, a higher working volume.

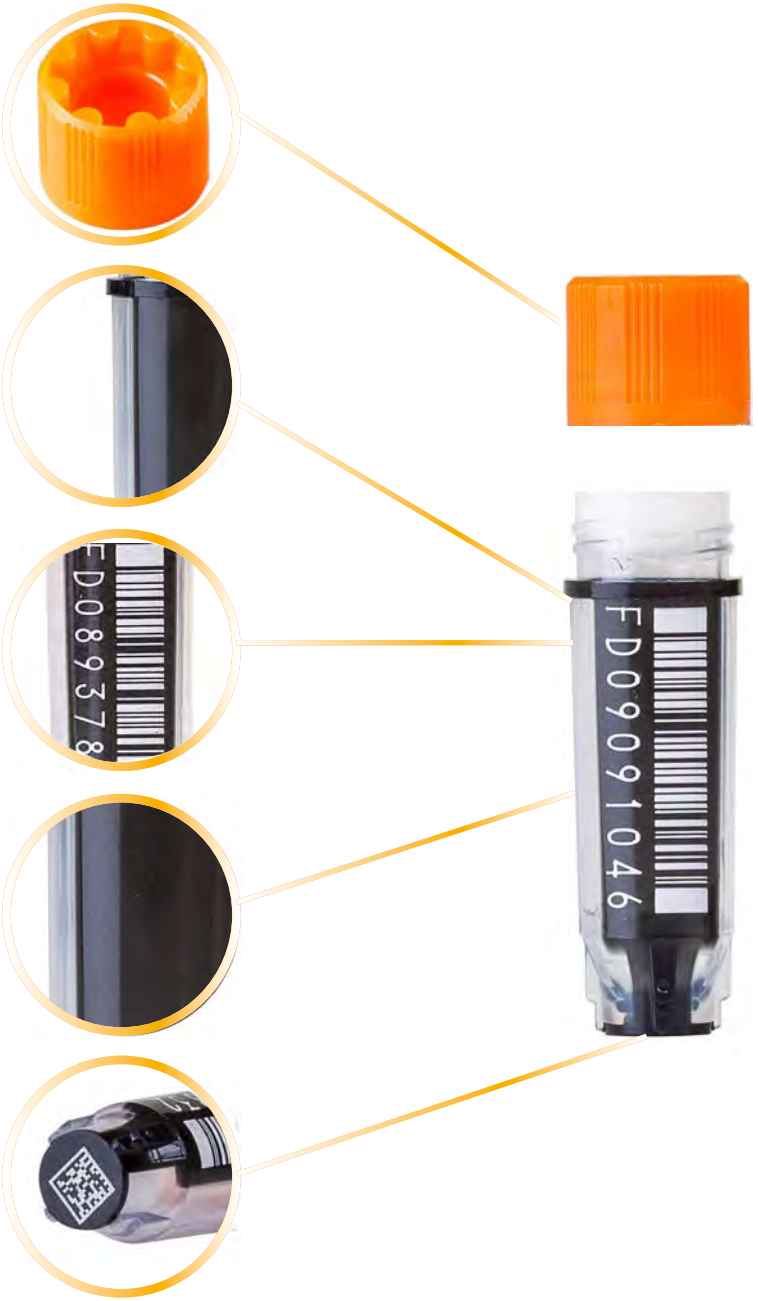
External Threaded Cap:
- Automation friendly
- Our most secure cap
- Enables greater working volume
- Designed to prevent over tightening

High Quality Virgin Polypropylene:
- No detectable leachables or extractables
- Manufactured in ISO Class 8 clean-room environment
- Endotoxin, DNase/RNase, heavy metals & animal free

Side Coding:
- Linear Barcode
- Human-Readable Number
- Permanent laser etching

Clear Window:
- Allows visual inspection
- Optional space to print direct due to high quality manufacturing

2D-coded:
- Enables whole rack or single tube reading
- High contrast enabling reliable reading
- Permanent laser etching



Anatomy of a FluidX Tube Next-Generation Dual-Coded Tube

External Threaded Cap:

- Automation friendly
- Our most secure cap
- Enables greater working volume
- Designed to prevent over tightening

High Quality Virgin Polypropylene:

- No detectable leachables or extractables
- Manufactured in ISO Class 8 clean-room environment
- Endotoxin, DNase/RNase, heavy metals & animal free

Clear Window:

- Allows visual inspection
- Optional space to print direct due to high quality manufacturing

Dual-Coded:

- 2D-code and Human-Readable Number (HRN) on tube base
- Enables whole rack or single tube reading
- High contrast enabling reliable reading
- Permanent laser etching

FluidX Sample Storage Tube Range

	24-format, 7.6ml External Thread, Next Gen Jacket Tri-coded	24-format 5.0ml External Thread, Jacket Tri-coded	24-format, 6.0ml External Thread, Jacket Tri-coded Glass	48-format, 3.8ml External Thread, Next Gen Jacket Tri-coded	24-format 4.0ml External Thread,	24-format, 2.2ml Tissue External Thread, Dual-coded	48-format, 1.9ml External Thread, Next Gen Jacket Tri-coded	48-format, 1.8ml Internal Thread, 2D-coded	48-format, 1.8ml External Thread, 2D-coded	48-format, 2.0ml External Thread, Jacket Tri-coded Glass	48-format, 1.8ml Internal Thread, Jacket Tri-coded	48-format, 1.5ml External Thread, Next Gen Jacket Tri-coded	48-format, 1.0ml Internal Thread, 2D-coded
Max Working Volume (ml) Screw Cap	7.6	5.0	6.0	3.8	4.0	2.2	1.9	1.8	1.8	2.0	1.8	1.5	1.0
Max Working Volume (µl) Screw Cap	7660	5080	-	3830	-	2250	1910	-	-	-	-	1500	-
Max Working Volume (µl) Septum Cap	-	-	-	-	-	-	-	-	-	-	-	-	-
Tube Height (mm)	77.4	56.4	56.4	75	48.2	25.9	38.2	38	40	48.1	38.2	30.6	32
Tube Height with Cap (mm)	83.6	62.6	58.9	80.7	50.6	32.1	43.9	47.8	47.1	50.7	48	36.3	41.8
Tube Height with Septum Cap (mm)	-	-	-	-	-	-	-	-	-	-	-	-	-
Inner Diameter (mm)	13	13	12	9.6	11	13.1	9.6	10.6	9.8	8	10.6	9.6	10.6
Outer Diameter with Cap (mm)	17	17	17	12.8	15.8	17	12.8	12.6	13.1	13.4	12.6	12.6	12.6
Center to Center (mm)	18	18	18	13.5	18	18	13.5	13.5	13.5	13.5	13.5	13.5	13.5
Min Temperature °C Screw Cap	-196	-196	-80	-196	-80	-196	-196	-196	-196	-80	-196	-196	-196
Min Temperature °C Septum Cap	-	-	-	-	-	-	-	-	-	-	-	-	-
2D-coded	Base	Base	Base	Base	Base	Base & Side	Base	Base	Base	Base	Base	Base	Base
Human Readable Number	Side	Side	Side	Side	Side	Side	Side	-	-	Side	Side	Side	-
Linear Barcode	Side	Side	Side	Side	Side	-	Side	-	-	Side	Side	Side	-
Product Codes													
Bulk, Uncapped	65-9303	65-9203	-	65-7516	-	68-4000-00	65-7640	-	-	-	65-7506	65-7660	-
Bulk, Capped	66-9302	66-9201	65-9003	65-7517	65-9002	68-4000-31	65-7641	65-7502	65-7501-01	65-9001	65-7505	65-7661	65-7503
Pre-racked, Uncapped	-	-	-	65-7514	-	-	65-7642	-	-	-	65-7509	65-7662	-
Pre-racked, Capped	-	-	-	65-7515	-	68-400-33	65-7643	-	-	-	65-7510	65-7663	-

 96-format 1ml External Thread, Next Gen Jacket Tri-coded	 96-format 0.9ml Extenal Thread, Next Gen Dual-coded	 96-format, 0.9ml Intenal Thread, Next-Gen Jacket Tri-coded	 96-format, 0.9ml Intenal Thread, Next-Gen Dual-coded	 96-Format 0.7ml Intenal Thread, Next Gen Dual-coded	 96-format 0.65ml Internal Thread, Next Gen Jacket Tri-coded	 96-format, 0.5ml External Thread, Next Gen Jacket Tri-coded	 96-format, 0.5ml External Thread, Next-Gen Dual-coded	 96-format, 0.48ml Internal Thread, Next Gen Jacket Tri-coded	 96-format, 0.3ml Internal Thread, Next-Gen Dual-coded	 96-format, 0.2ml External Thread, 2D-coded	 96-format, 0.26ml External Thread, Next Gen Jacket Dual-coded	 FluidX AcoustiX™ Sample Tube, Labcyte Echo® Qualified Consumable
1.0	0.9	0.9	0.9	0.7	0.65	0.5	0.5	0.48	0.3	0.2	0.26	0.07
1000	911	916	929	731	666	552	550	482	336	204	261	70
916	887	999	1018	821	749	525	525	572	425	-	238	-
46.2	42.3	44.2	43.5	36.2	36.8	26.4	26.4	26.4	21	24.1	15.2	13.4
49.6	45.7	52.5	51.8	44.5	45.1	29.8	29.8	34.7	29.3	27.5	18.6	14.7
47.4	43.5	45.4	44.7	37.4	38	27.6	27.6	27.6	22.1	-	16.4	
6.5	6.5	6.8	6.8	6.8	6.8	6.5	6.5	6.8	6.8	3.9	6.5	6.5
8.7	8.7	8.6	8.6	8.6	8.6	8.7	8.5	8.3	8.7	5.8	8.7	7.6
9	9	9	9	9	9	9	9	9	9	9 (96) 6 (240)	9	
-196	-196	-196	-196	-196	-196	-196	-196	-196	-196	-196	-196	-80
-80	-80	-80	-80	-80	-80	-80	-80	-80	-80	-	-80	-
Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base & Side	2D4 Quad Code
Side	Base	Side	Base	Base	Side	Side	Base	Side	Base	-	Side	-
Side	-	Side	-	-	Side	Side	-	Side	-	-	-	-
68-1003-00	68-1001-00	67-0757-00	66-62345	66-62318	67-0755-00	68-0703-00	68-0701-00	67-0753-00	66-62326	67-0203-01	68-0301-00	-
68-1003-10	68-1001-10	67-0757-10	66-62345-Y6	66-62318-Y6	67-0755-10	68-0703-10	68-0701-10	67-0753-10	66-62326-Y6	67-0203-10	68-0301-10	-
68-1003-01	68-1001-01	67-0757-01	66-62330	66-62319	67-0755-01	68-0703-02	68-0701-02	67-0753-02	66-62325	67-0203-02	68-0301-01	-
68-1003-11	68-1001-11	67-0757-11	66-62330-Y6	66-62319-Y6	67-0755-11	68-0703-12	68-0701-12	67-0753-12	66-62325-Y6	67-0203-11	68-0301-11	69-0200-11

Introduction to FluidX External Thread Next-Generation Jacket Tri-Coded Tubes

OVERVIEW

FluidX External Thread Next-Generation Jacket Tri-coded tubes have been developed to exceed the demands of sample security, management and tracking in modern high-density storage applications. Each tube features a permanent 2D-code laser etched in high-contrast on the tube base, a permanent 1D (linear barcode) and Human-Readable Number laser etched in high-contrast on the tube side. The Next-Generation jacket tube is manufactured using an advanced manufacturing process which results in a one-piece jacket tube, therefore, you never lose the code. All three codes are identical and auditing processes guarantee all three codes match. Our standard 2D coding option for these tubes is black on white.

The tubes provide a lifelong and secure chain of custody for samples in biobanks, compound libraries and a broad range of biological and chemical stores, including cryogenic storage.

Designed and developed with broad compatibility in mind, the tubes perform without compromise in conjunction with automated barcode reading, capping and sample management systems from FluidX and all other industry-recognized manufacturers.

External Thead Next-Generation Jacket Tri-coded tube

KEY FEATURES

- Permanently laser etched, 2D-code on base, 1D (linear barcode) and Human-Readable Number on the side
- FluidX Next-Generation Jacket Tri-coded offers unequalled sample audit traceability, enabling sample tracking and data sharing between multiple users, labs, locations and automation capabilities
- 100% Quality Control, each tube is tested to ensure both readability and uniqueness
- Manufactured using an advanced manufacturing process which results in a one-piece jacket tube from high-quality virgin polypropylene
- External thread tubes provide greater working volume than internal thread tubes
- Suitable for cryogenic storage as low as -196°C*
- Secure sample storage and tracking
- Available bulk uncapped or pre-capped
- Available pre-racked and pre-capped in 96, 48 and 24 well format SBS racks
- 2D-codes readable without removing tubes from racks
- Suitable for sealing with either screw caps or TPE septum caps

*not for use in liquid phase Nitrogen

CAPPING OPTIONS

Screw Caps

- A deforming compression seal more effective than a silicone alternative
- A non-silicone seal means the cap can never be over-tightened
- Caps and tubes are manufactured from the same material, preventing differential expansion during freeze-thaw cycles
- A double-start thread engages in a maximum rotation of 180°, thereby facilitating automation

TPE Septum Caps

- A cost-effective sealing option for samples that are only accessed occasionally
- Septum caps are supplied in 96-format back mats to facilitate automation

Introduction to FluidX Internal Thread Next-Generation Jacket Tri-Coded Tubes

OVERVIEW

FluidX Internal Thread Next-Generation Jacket Tri-coded tubes have been developed to exceed the demands of sample security, management and tracking in modern high-density storage applications and comply with ISBER standards. Each tube features a permanent 2D-code laser etched in high-contrast on the tube base, a permanent 1D (linear barcode) and Human-Readable Number laser etched in high-contrast on the tube side. The Next-Generation jacket tube is manufactured using an advanced manufacturing process which results in a one-piece jacket tube, therefore, you never lose the code. All three codes are identical and auditing processes guarantee all three codes match. Our standard 2D coding option for these tubes is black on white.

The tubes provide a lifelong and secure chain of custody for samples in biobanks, compound libraries and a broad range of biological and chemical stores, including cryogenic storage.

Designed and developed with broad compatibility in mind, the tubes perform without compromise in conjunction with automated barcode reading, capping and sample management systems from FluidX and all other industry-recognized manufacturers.

Internal Thead Next-Generation Jacket Tri-coded tube

KEY FEATURES

Secure Sample Storage and Tracking

- Permanently laser etched, 2D-code on base, 1D (linear barcode) and Human-Readable Number on the side
- FluidX Next-Generation Jacket Tri-coded offers unequalled sample audit traceability, enabling sample tracking and data sharing between multiple users, labs, locations and automation capabilities
- 100% Quality Control, each tube is tested to ensure both readability and uniqueness
- Manufactured using an advanced manufacturing process which results in a one-piece jacket tube from high-quality virgin polypropylene
- Suitable for cryogenic storage as low as -196°C*
- Secure sample storage and tracking
- Available bulk uncapped or pre-capped
- Available pre-racked and pre-capped in 96 well format SBS racks
- 2D-codes readable without removing tubes from racks
- Suitable for sealing with either screw caps or TPE septum caps

CAPPING OPTIONS

Screw Caps

- Automation friendly co-molded screw caps for internal thread tubes eliminate the possibility of over tightening
- Co-molded caps eliminate the failures in caps using a silicone O-ring
- A double-start thread engages in a maximum rotation of 180°, thereby facilitating automation

TPE Septum Caps

- Cost-effective sealing option for samples that are only accessed occasionally
- Septum caps are supplied in 96-format back mats to facilitate automation


19145511
19028002
19145509

FluidX Next-Generation Jacket Tri-Coded Sample Storage Tubes

FluidX 96-Format, 0.26ml External Thread, Next-Gen Jacket, Dual-Coded Tube

- Supplied in 96-well format SBS racks or un-racked
- Securely sealed using screw caps or TPE septum caps

	0.26ml screw cap	0.26ml septum cap
		
	0.26ml external thread, next-gen jacket, dual-coded tube with screw cap	0.26ml external thread, next-gen jacket, dual-coded tube with septum cap
Max Working Volume (ml)	0.26	0.23
Tube Height (mm)	15.2	15.2
Tube Height with Cap (mm)	18.6	16.4
Inner Diameter (mm)	6.5	6.5
Outer Diameter with Cap (mm)	8.7	8.7
Center to Center (mm)	9.0	9.0
Minimum Temperature (°C)	-196	-80
Tube Height in Rack (mm)	19.13	15.73
Overall Rack Height inc. lid (mm)	22	22

Ordering Information

68-0303-00	**FluidX 96-format, 0.26ml External Thread, Next-Gen Jacket Dual-coded Tube,** 2D-code on base, 2D-code and Human Readable Number on side, uncapped, bulk, 960 tubes per case
68-0303-10	**FluidX 96-format, 0.26ml External Thread, Next-Gen Jacket Dual-coded Tube**, 2D-code on base, 2D-code and Human Readable Number on side, capped, bulk, 960 tubes per case
68-0303-01	**FluidX 96-format, 0.26ml External Thread, Next-Gen Jacket Dual-coded Tube**, 2D-code on base, 2D-code and Human Readable Number on side, uncapped, 10 racks per case LowBase Rack. Empty rack part number: 68-0300-20
68-0303-11	**FluidX 96-format, 0.26ml External Thread, Next-Gen Jacket Dual-coded Tube**, 2D-code on base, 2D-code and Human Readable Number on side, capped, 10 racks per case LowBase Rack. Empty rack part number: 68-0300-20

Note: available with 2D-code only on request.

FluidX 96-Format, 0.5ml External Thread, Next-Gen Jacket, Tri-Coded Tube

- Supplied in 96-well format SBS racks or un-racked
- Securely sealed using screw caps or TPE septum caps

	0.5ml screw cap	0.5ml TPE septum cap
	 0.5ml external thread, next-gen jacket, tri-coded tube with screw cap	 0.5ml external thread, next-gen jacket, tri-coded tube with septum cap
Max Working Volume (ml)	0.52	0.50
Tube Height (mm)	26.4	26.4
Tube Height with Cap (mm)	29.8	27.6
Inner Diameter (mm)	6.5	6.5
Outer Diameter with Cap (mm)	8.7	8.7
Center to Center (mm)	9.0	9.0
Minimum Temperature (°C)	-196	-80
Tube Height in Rack (mm)	30.3	28.1
Overall Rack Height inc. lid (mm)	32.9	32.9

Ordering Information

68-0703-00	**FluidX 96-format, 0.5ml External Thread, Next-Gen Jacket Tri-coded Tube,** 2D-code on base, 1D Linear Barcode and Human Readable Number on side, uncapped, bulk, 960 tubes per case
68-0703-01	**FluidX 96-format, 0.5ml External Thread, Next-Gen Jacket Tri-coded Tube**, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, uncapped, 10 racks per case LowBase Rack. Empty rack part number: 66-51004
68-0703-02	**FluidX 96-format, 0.5ml External Thread, Next-Gen Jacket Tri-coded Tube**, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, uncapped, 10 racks per case HighBase Rack. Empty rack part number: 66-51026
68-0703-10	**FluidX 96-format, 0.5ml External Thread, Next-Gen Jacket Tri-coded Tube,** 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped, bulk, 960 tubes per case
68-0703-11	**FluidX 96-format, 0.5ml External Thread, Next-Gen Jacket Tri-coded Tube**, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped, 10 racks per case LowBase Rack. Empty rack part number: 66-51004
68-0703-12	**FluidX 96-format, 0.5ml External Thread, Next-Gen Jacket Tri-coded Tube**, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped, 10 racks per case HighBase Rack. Empty rack part number: 66-51026
68-0704-00	**FluidX 96-format, 0.5ml External Thread, Next-Gen Jacket 2D-coded Tube**, 2D-code on base, uncapped, bulk, 960 tubes per case
68-0704-10	**FluidX 96-format, 0.5ml External Thread, Next-Gen Jacket 2D-coded Tube**, 2D-code on base, capped, bulk, 960 tubes per case
68-0704-02	**FluidX 96-format, 0.5ml External Thread, Next-Gen Jacket 2D-coded Tube,** 2D-code on base, uncapped, 10 racks per case. HighBase Rack. Empty rack part number: 66-51026
68-0704-12	**FluidX 96-format, 0.5ml External Thread, Next-Gen Jacket 2D-coded Tube**, 2D-code on base, capped, 10 racks per case. HighBase Rack. Empty rack part number: 66-51026

FluidX 96-Format, 1.0ml External Thread, Next-Gen Jacket, Tri-Coded Tube

- Supplied in 96-well format SBS racks or un-racked
- Securely sealed using screw caps or TPE septum caps

	1.0ml screw cap	1.0ml TPE septum cap
		
	1.0ml external thread, next-gen jacket, tri-coded tube with screw cap	1.0ml external thread, next-gen jacket, tri-coded tube with septum cap
Max Working Volume (ml)	1.0	0.9
Tube Height (mm)	46.2	46.2
Tube Height with Cap (mm)	49.6	47.4
Inner Diameter (mm)	6.5	6.5
Outer Diameter with Cap (mm)	8.7	8.7
Center to Center (mm)	9.0	9.0
Minimum Temperature (°C)	-196	-80
Tube Height in Rack (mm)	50.5	47.1
Overall Rack Height inc. lid (mm)	53.2	53.2

Ordering Information

68-1003-00	**FluidX 96-format, 1.0ml External Thread, Next-Gen Jacket Tri-coded Tube**, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, uncapped, bulk, 960 tubes per case
68-1003-10	**FluidX 96-format, 1.0ml External Thread, Next-Gen Jacket Tri-coded Tube**, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped, bulk, 960 tubes per case
68-1003-01	**FluidX 96-format, 1.0ml External Thread, Next-Gen Jacket Tri-coded Tube**, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, uncapped, 10 racks per case. HighBase Rack. Empty rack part number: 66-51020
68-1003-11	**FluidX 96-format, 1.0ml External Thread, Next-Gen Jacket Tri-coded Tube**, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped, 10 racks per case. HighBase Rack. Empty rack part number: 66-51020
68-1004-00	**FluidX 96-format, 1.0ml External Thread, Next-Gen Jacket 2D-coded Tube**, 2D-code on base, uncapped, bulk, 960 tubes per case
68-1004-10	**FluidX 96-format, 1.0ml External Thread, Next-Gen Jacket 2D-coded Tube**, 2D-code on base, capped, bulk, 960 tubes per case
68-1004-01	**FluidX 96-format, 1.0ml External Thread, Next-Gen Jacket 2D-coded Tube,** 2D-code on base, uncapped, 10 racks per case. HighBase Rack. Empty rack part number: 66-51020
68-1004-11	**FluidX 96-format, 1.0ml External Thread, Next-Gen Jacket 2D-coded Tube,** 2D-code on base, capped, 10 racks per case. HighBase Rack. Empty rack part number: 66-51020

FluidX 48-Format, 1.5ml External Thread, Next-Gen Jacket, Tri-Coded Cryo Tube

- Supplied in 48-well format SBS racks or un-racked, empty 10x10 cryo racks or 9x9 cryo racks also available (see page 7)
- Securely sealed using screw caps

	1.5ml screw cap
	 1.5ml external thread, next-gen jacket, tri-coded cryo tube with screw cap
Max Working Volume (ml)	1.5
Tube Height (mm)	30.6
Tube Height with Cap (mm)	36.3
Inner Diameter (mm)	9.6
Outer Diameter with Cap (mm)	12.8
Center to Center (mm)	13.5
Minimum Temperature (°C)	-196
Tube Height in Rack (mm)	48.2
Overall Rack Height inc. lid (mm)	49.4

Ordering Information

65-7660	**FluidX 48-format, 1.5ml External Thread, Next-Gen Jacket Tri-coded Cryo Tube,** 2D-code on base, 1D Linear Barcode and Human Readable Number on side, uncapped, bulk, 480 tubes per case
65-7661	**FluidX 48-format, 1.5ml External Thread, Next-Gen Jacket Tri-coded Cryo Tube**, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped, bulk, 480 tubes per case
65-7662	**FluidX 48-format, 1.5ml External Thread, Next-Gen Jacket Tri-coded Cryo Tube**, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, uncapped, 10 racks per case 48-format Rack (1 Piece Rack Base). Empty rack part number: 65-9451
65-7663	**FluidX 48-format, 1.5ml External Thread, Next-Gen Jacket Tri-coded Cryo Tube**, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped, 10 racks per case 48-format Rack (1 Piece Rack Base). Empty rack part number: 65-9451
65-7664	**FluidX 48-format, 1.5ml External Thread, Next-Gen Jacket 2D-coded Cryo Tube**, 2D-code on base, uncapped, bulk, 480 tubes per case
65-7665	**FluidX 48-format, 1.5ml External Thread, Next-Gen Jacket 2D-coded Cryo Tube**, 2D-code on base, capped, bulk, 480 tubes per case
65-7666	**FluidX 48-format, 1.5ml External Thread, Next-Gen Jacket 2D-coded Cryo Tube**, 2D-code on base, uncapped, 10 racks per case. 48-format Rack (1 Piece Rack Base). Empty rack part number: 65-9451
65-7667	**FluidX 48-format, 1.5ml External Thread, Next-Gen Jacket 2D-coded Cryo Tube**, 2D-code on base, capped, 10 racks per case. 48-format Rack (1 Piece Rack Base). Empty rack part number: 65-9451
65-9451	**FluidX 48-format Rack, 1 Piece "Heart Rack" Rack Base**, 10 racks per case Suitable for: 1.5ml External Thread Next-Gen Jacket Tubes, 1.9ml External Thread Next-Gen Jacket Tubes, 2ml 2D-coded External Thread Jacket Tubes
66-1801	**FluidX Cryo Rack 9x9, Black, polycarbonate**, 10 racks per case Suitable for 1.5ml and 1.9ml External Thread Jacket Tube

FluidX 48-Format, 1.9ml External Thread, Next-Gen Jacket, Tri-Coded Cryo Tube

- Supplied in 48-well format SBS racks or un-racked, empty 10x10 cryo racks or 9x9 cryo racks also available (see page 7)
- Securely sealed using screw caps

	1.9ml screw cap
	 1.9ml external thread, next-gen jacket, tri-coded cryo tube with screw cap
Max Working Volume (ml)	1.9
Tube Height (mm)	38.2
Tube Height with Cap (mm)	43.9
Inner Diameter (mm)	9.6
Outer Diameter with Cap (mm)	12.8
Center to Center (mm)	13.5
Minimum Temperature (°C)	-196
Tube Height in Rack (mm)	45
Overall Rack Height inc. lid (mm)	56

Ordering Information

65-7640	**FluidX 48-format, 1.9ml External Thread, Next-Gen Jacket Tri-coded Cryo Tube**, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, uncapped, bulk, 480 tubes per case
65-7641	**FluidX 48-format, 1.9ml External Thread, Next-Gen Jacket Tri-coded Cryo Tube**, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped, bulk, 480 tubes per case
65-7642	**FluidX 48-format, 1.9ml External Thread, Next-Gen Jacket Tri-coded Cryo Tube,** 2D-code on base, 1D Linear Barcode and Human Readable Number on side, uncapped, 10 racks per case 48-format Rack (1 Piece Rack Base). Empty rack part number: 65-9451
65-7643	**FluidX 48-format, 1.9ml External Thread, Next-Gen Jacket Tri-coded Cryo Tube**, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped, 10 racks per case 48-format Rack (1 Piece Rack Base). Empty rack part number: 65-9451
65-7644	**FluidX 48-format, 1.9ml External Thread, Next-Gen Jacket 2D-coded Cryo Tube**, 2D-code on base, uncapped, bulk, 480 tubes per case
65-7645	**FluidX 48-format, 1.9ml External Thread, Next-Gen Jacket 2D-coded Cryo Tube**, 2D-code on base, capped, bulk, 480 tubes per case
65-7646	**FluidX 48-format, 1.9ml Externa Thread, Next-Gen Jacket 2D-coded Cryo Tube**, 2D-code on base, uncapped, 10 racks per case. 48-format Rack (1 Piece Rack Base) Empty rack part number: 65-9451
65-7647	**FluidX 48-format, 1.9ml External Thread, Next-Gen Jacket 2D-coded Cryo Tube,** 2D-code on base, capped, 10 racks per case. 48-format Rack (1 Piece Rack Base). Empty rack part number: 65-9451
66-1800	**FluidX Cryo Rack 10x10, Black, polycarbonate**, 10 racks per case Suitable for 1.9ml External Thread Jacket Tubes

FluidX 48-Format, 3.8ml External Thread, Next-Gen Jacket, Tri-Coded Cryo Tube

- Supplied in 48-well format SBS racks or un-racked
- Securely sealed with screw caps

	3.8ml screw cap
	 3.8ml external thread, next-gen jacket, tri-coded cryo tube with screw cap
Max Working Volume (ml)	3.8
Tube Height (mm)	75.0
Tube Height with Cap (mm)	80.7
Inner Diameter (mm)	9.6
Outer Diameter with Cap (mm)	12.8
Center to Center (mm)	13.5
Minimum Temperature (°C)	-196
Tube Height in Rack (mm)	81.7
Overall Rack Height inc. lid (mm)	86.2

Ordering Information

65-7516	**FluidX 48-format, 3.8ml External Thread, Next-Gen Jacket Tri-coded Cryo Tube**, round bottom, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, uncapped, bulk, 480 tubes per case
65-7517	**FluidX 48-format, 3.8ml External Thread, Next-Gen Jacket Tri-coded Cryo Tube,** round bottom, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped, bulk, 480 tubes per case
65-7514	**FluidX 48-format, 3.8ml External Thread, Next-Gen Jacket Tri-coded Cryo Tube**, round bottom, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, uncapped, 10 racks per case 48-format Rack (2 Piece Rack Base). Empty rack part number: 65-9460
65-7515	**FluidX 48-format, 3.8ml External Thread, Next-Gen Jacket Tri-coded Cryo Tube**, round bottom, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped, 10 racks per case 48-format Rack (2 Piece Rack Base). Empty rack part number: 65-9460

FluidX 24-Format, 7.6ml External Thread, Next-Gen Jacket, Tri-Coded Tube

- Supplied in bulk and empty 24-well format SBS racks
- Securely sealed using standard screw caps or automation-friendly screw caps providing flexibility to use tubes across a range of industry-recognized automated tube handling platforms

	7.6ml automation-friendly screw cap
	 7.6ml external thread, next-gen jacket, tri-coded tube with auto-friendly cap
Max Working Volume (ml)	7.6
Tube Height (mm)	77.4
Tube Height with Cap (mm)	83.6
Inner Diameter (mm)	13.0
Outer Diameter with Cap (mm)	17.0
Center to Center (mm)	18.0
Minimum Temperature (°C)	-196
Tube Height in Rack (mm)	84.7
Overall Rack Height inc. lid (mm)	88.5

Ordering Information

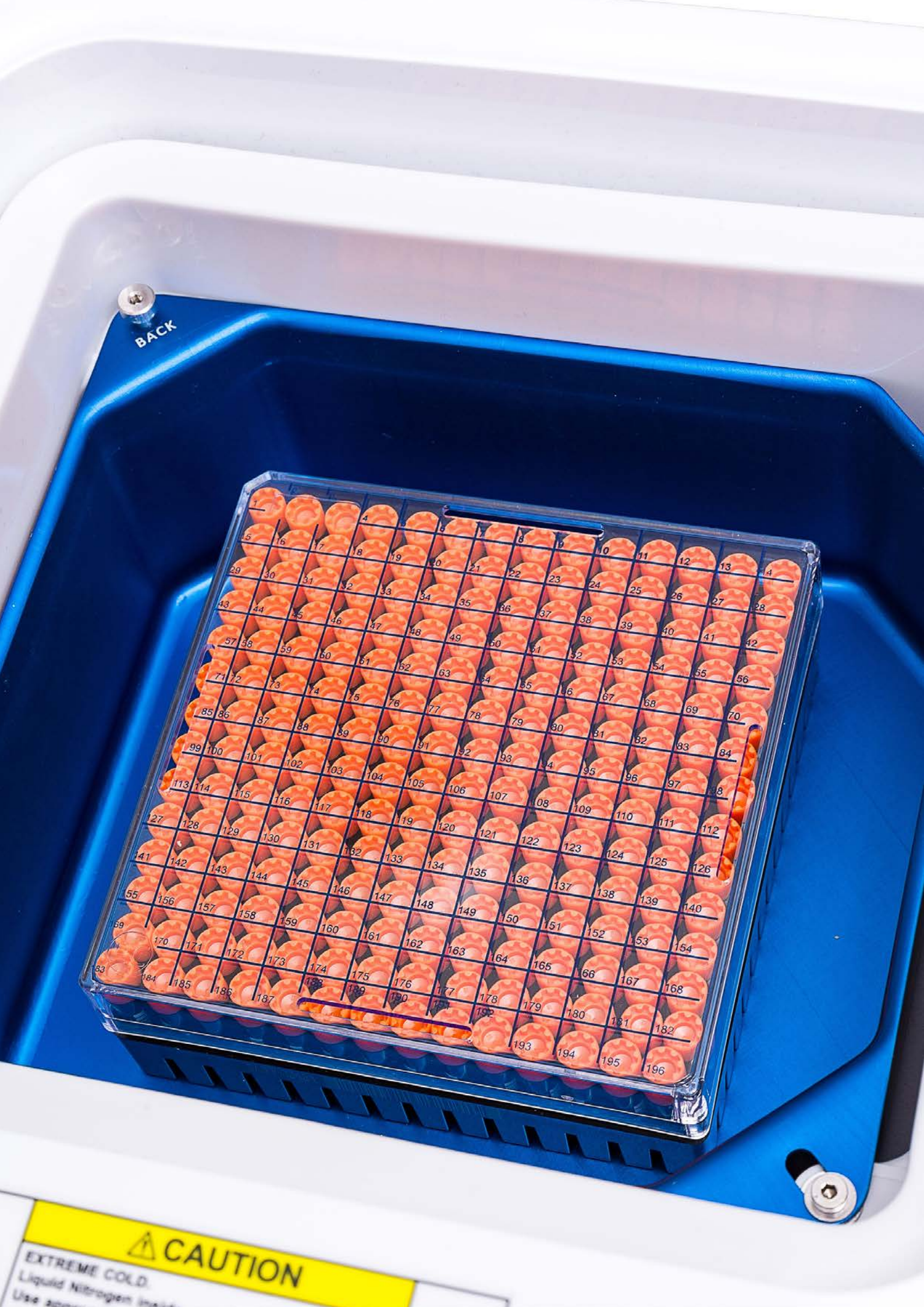
66-9302	**FluidX 24-format, 7.6ml External Thread, Next-Gen Jacket Tri-coded Tube**, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped with Automation Friendly Screw Cap, bulk, 240 tubes per case
65-9303	**FluidX 24-format, 7.6ml External Thread, Next-Gen Jacket Tri-coded Tube,** 2D-code on base, 1D Linear Barcode and Human Readable Number on side, uncapped, bulk, 240 tubes per case

Large format Caps

66-9401	**FluidX Automation Friendly External Thread Cap**, Orange, 24-format, bulk, 240 caps per case Suitable for Tissue Tube, 5ml and 7.6ml polypropylene Tubes

Large format Racks

66-9455	**FluidX 24-format Rack, 2 Piece Rack Base,** with Open Bottom for reading on XTR range of rack readers, with 19.5mm tube to tube spacing for use with XSD-24 Decapper, without lid, 10 rack bases per case
64-9455	**FluidX 24-format Rack, 2 Piece Rack Base**, with Open Bottom for reading on XTR range of rack readers, without lid, 10 racks per case. Suitable for 7.6ml External Thread, Jacket Tri-coded Tubes (part number 66-9302 and 65-9302)


BACK
CAUTION
EXTREME COLD.
Liquid Nitrogen

FluidX Jacket Tri-Coded Sample Storage Tubes

Internal and External Thread

FluidX 48-Format, 1.8ml Internal Thread, Jacket, Tri-Coded Cryo Tube

- Supplied in bulk and empty 48-well format SBS racks, 10x10 cryo racks or 9x9 cryo racks
- Securely sealed using screw caps

	1.8ml screw cap
	 1.8ml internal thread, jacket, tri-coded tube with screw cap
Max Working Volume (ml)	1.8
Tube Height (mm)	38.2
Tube Height with Cap (mm)	48.0
Inner Diameter (mm)	10.6
Outer Diameter with Cap (mm)	12.6
Center to Center (mm)	13.5
Minimum Temperature (°C)	-196
Tube Height in Rack (mm)	49.1
Overall Rack Height inc. lid (mm)	56

Ordering Information

65-7505	**FluidX 48-format, 1.8ml Internal Thread Jacket Tri-coded Cryo Tube**, round bottom, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped, sterile, bulk, 480 tubes per case
65-7506	**FluidX 48-format, 1.8ml Internal Thread Jacket Tri-coded Cryo Tube**, round bottom, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, uncapped, bulk, 480 tubes per case
65-7509	**FluidX 48-format, 1.8ml Internal Thread Jacket Tri-coded Cryo Tube**, round bottom, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, uncapped, 10 racks per case 48-format Rack (2 Piece Rack Base). Empty rack part number: 65-9452
65-7510	**FluidX 48-format, 1.8ml Internal Thread Jacket Tri-coded Cryo Tube**, round bottom, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped, 10 racks per case 48-format Rack (2 Piece Rack Base). Empty rack part number: 65-9452

FluidX 24-Format, 5ml External Thread, Jacket, Tri-Coded Tube

- Supplied in bulk and empty 24-well format SBS racks
- Securely sealed using standard screw caps or automation-friendly screw caps providing flexibility to use tubes across a range of industry-recognized automated tube handling platforms

	5ml automation friendly screw cap
	 5ml external thread, jacket, tri-coded tube with screw cap
Max Working Volume (ml)	5.0
Tube Height (mm)	56.4
Tube Height with Cap (mm)	62.6
Inner Diameter (mm)	13.0
Outer Diameter with Cap (mm)	17.0
Center to Center (mm)	18.0
Minimum Temperature (°C)	-196
Tube Height in Rack (mm)	63.7
Overall Rack Height inc. lid (mm)	66.5

Ordering Information

66-9201	**FluidX 24-format, 5ml External Thread, Jacket Tri-coded Tube**, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped with Automation Friendly Screw Cap, bulk, 240 tubes per case
65-9203	**FluidX 24-format, 5ml External Thread, Jacket Tri-coded Tube,** 2D-code on base, 1D Linear Barcode and Human Readable Number on side, uncapped, bulk, 240 tubes per case

Large format Caps

66-9401	**FluidX Automation Friendly External Thread Cap**, Orange, 24-format, bulk, 240 caps per case Suitable for Tissue Tube, 5ml and 7.6ml polypropylene Tubes

Large format Racks

66-9454	**FluidX 24-format Rack,** 1 Piece Rack Base, with Open Bottom for reading on XTR range of rack readers, 10 racks per case. Suitable for 5ml External Thread, Jacket Tri-coded PP and 6ml Glass Tubes (part number 65-9201 and 65-9003)

Introduction to FluidX 24-Format, External Thread, Dual-Coded Tissue Tube

OVERVIEW

Dual-coded tissue tubes are specifically designed for long-term storage of tissue samples. Suitable for cryogenic storage, tubes are supplied in 24-well format SBS racks or, un-racked. The 2D-codes are readable without removing the tubes from their racks.
Dual-coded tissue tubes offer unequalled audit traceability, enabling sample tracking and data sharing between multiple labs, locations and automation capabilities. Tubes are manufactured from high-quality virgin polypropylene, supplied production sterile and securely sealed using standard screw caps or automation-friendly screw caps.

KEY FEATURES

Secure Sample Storage and Tracking Optimized for Tissue Sample Storage

- Flat Bottom for easy sample extraction
- Straight sides optimized for forceps use
- Holds samples up to 9.5mm in size, ideal for samples between 5-7mm
- External thread is easy to tighten with gloves or forceps,
- Permanently laser etched, 2D-code on tube base
- Permanently laser etched, 2D-code and Human Readable number on tube side
- Dual-Coded tube supports sample sharing between labs and locations
- 100% Quality control, each tube is tested to ensure code readability and uniqueness
- FluidX tubes have been leak tested to ensure sample security
- Suitable for cryogenic storage
- Manufactured from high-quality virgin polypropylene, supplied production sterile

Screw Caps

- Automation friendly cap option

24-Format SBS Racks

- Automation Rack Orientation: racks are supplied with a unique 2D-code which can be read at the same time as the tube 2D-code, to provide automatic rack orientation and more secure sample tracking
- Direct Laser Etching: linear barcodes are permanently laser etched directly onto the rack

FluidX 24-Format, 2.2ml External Thread, Dual-Coded Tissue Tube

	2.2ml Tissue Tube with automation-friendly screw cap
	 2.2ml external thread, dual-coded tissue tube with automation-friendly screw cap
Max Working Volume (ml)	2.2
Tube Height (mm)	25.9
Tube Height with Cap (mm)	32.1
Inner Diameter (mm)	13.1
Outer Diameter with Cap (mm)	17.0
Center to Center (mm)	18.0
Minimum Temperature (°C)	-196
Tube Height in Rack (mm)	33.8
Overall Rack Height inc. lid (mm)	35.7

Ordering Information

68-4000-00	**FluidX 24-format, 2.2ml External Thread, Dual-coded Tissue Tube**, flat bottom, 2D-code on base, 2D and Human Readable Number on side, uncapped, bulk, 240 tubes per case
68-4000-31	**FluidX 24-format, 2.2ml External Thread, Dual-coded Tissue Tube,** flat bottom, 2D-code on base, 2D and Human Readable Number on side, capped with clear Automation Friendly Screw Cap, bulk, 240 tubes per case
68-4000-33	**FluidX 24-format, 2.2ml External Thread, Dual-coded Tissue Tube** flat bottom, 2D-code on base, 2D and Human Readable Number on side, capped with clear Automation Friendly Screw Cap, 10 racks per case. 24-format Rack, without TwistLock. Empty rack part number: 68-4000-22

Tissue Tube Caps

66-9402	**FluidX Automation Friendly External Thread Cap**, Clear, 24-format, bulk, 240 caps per case Suitable for Tissue Tube, 5ml and 7.6ml polypropylene Tubes
66-9401	**FluidX Automation Friendly External Thread Cap**, Orange, 24-format, bulk, 240 caps per case Suitable for Tissue Tube, 5ml and 7.6ml polypropylene Tubes

Tissue Tube Racks

68-4000-22	**FluidX 24-format Rack, without TwistLock**, 10 racks per case Suitable for Tissue Tubes with automation friendly caps

FluidX 48-Format, 2.0ml External Thread, Jacket, Tri-Coded Glass Tube

Our Jacket Tri-coded glass sample storage tubes are the only automation-friendly, barcoded, glass sample storage tubes available for compound libraries and chemical storage.

Options:

- 2.0ml in 48-well format SBS racks
- 4.0ml in 24-well format SBS racks
- 6.0ml in 24-well format SBS racks

OVERVIEW

Developed to exceed the demands of sample security, management and tracking in modern high-density chemical storage applications.

External thread, Jacket Tri-coded, glass tubes carry three unique and permanent high-contrast tube identifiers, 2D-code, 1D linear barcode and a Human Readable Number (HRN) supporting sample sharing between multiple labs, locations and automation capabilities.

Provides a lifelong and secure chain of custody for samples in compound libraries and a broad range of chemical stores.

Manufactured from chemically-inert glass with low binding and low static properties ideal for dry compound storage, samples in DMSO and samples in caustic solvents.

Designed and developed with broad compatibility in mind. FluidX tubes perform without compromise in conjunction with automated barcode reading, capping and sample management systems from FluidX and all other industry-recognized manufacturers.

KEY FEATURES

Secure Sample Storage and Tracking

- Permanently laser etched, 2D-code on base, 1D (linear barcode) and Human-Readable Number on the side
- FluidX External Thread Jacket Tri-coded offers unequalled sample audit traceability, enabling sample tracking and data sharing between multiple users, labs, locations and automation capabilities
- 100% Quality Control, each tube is tested to ensure both readability and uniqueness
- Manufactured using a two piece assembly process. Jacket Glass tubes feature a protective Jacket made from high-quality virgin polypropylene
- External thread tubes provide greater working volume than internal thread tubes
- Suitable for cryogenic storage as low as -80°C
- Secure Sample Storage and Tracking
- Available bulk uncapped or capped
- Available capped in 48 and 24 well format SBS racks
- 2D-codes readable without removing tubes from racks

Screw Caps

- For the screw cap seals of glass storage tubes a silicone sealing film is used for added security and reliability
- Customized PTFE inserts available as an option for aggressive chemicals

	2.0ml glass screw cap	4.0ml glass screw cap	6.0ml glass screw cap
			
	FluidX 48-format, 2ml external thread, tri-coded glass tube	FluidX 48-format, 4ml external thread, tri-coded glass tube	FluidX 48-format, 6ml external thread, tri-coded glass tube
■ Max Fill Volume (ml)	2.0	4.0	6.0
■ Tube Height (mm)	48.1	48.2	56.4
■ Tube Height with Cap (mm)	50.6	50.7	58.9
■ Inner Diameter (mm)	8.0	11.0	12.0
■ Outer Diameter with Cap (mm)	13.4	15.8	17.0
■ Center to Center (mm)	13.5	18.0	18.0
■ Minimum Temperature (°C)	-80	-80	-80
■ Tube Height in Rack (mm)	54.8	50.8	66.5
■ Overall Rack Height inc. lid (mm)	57.8	56.0	63.7

Ordering Information

65-9001	**FluidX 48-format, 2.0ml External Thread, Jacket Tri-coded Glass Tube**, 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped, bulk, 480 tubes per case
65-9002	**FluidX 24-format, 4.0ml External Thread, Jacket Tri-coded Glass Tube,** 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped, bulk, 240 tubes per case
65-9003	**FluidX 24-format, 6.0ml External Thread, Jacket Tri-coded Glass Tube,** 2D-code on base, 1D Linear Barcode and Human Readable Number on side, capped, bulk, 240 tubes per case
65-9373	**FluidX External Thread Screw Cap**, Orange, 48-format, bulk, 480 caps per case Suitable for 2ml Jacket Glass Tube
65-9452	**FluidX 48-format Rack, 2 Piece Rack Base**, with Open Bottom for reading on XTR range of rack readers, 10 racks per case. Suitable for: 2ml Tri-coded Glass Tubes (part number 65-9001) 1ml, 1.8ml and 2ml Tri-coded Cryo Tubes (part number 65-7501-01, 65-7502, 65-7503, 65-7506, 65-7505)
65-9458	**FluidX 48-format Rack, 1 Piece Rack Base,** with Open Bottom for reading on XTR range of rack readers, 10 racks per case. Suitable for: 2ml Tri-coded Glass Tubes (part number 65-9001) 1ml, 1.8ml and 2ml Tri-coded Cryo Tubes (part number 65-7501-01, 65-7502, 65-7503, 65-7506, 65-7505)
65-9453	**FluidX 24-format Rack, 2 Piece Rack Base**, with Open Bottom for reading on XTR range of rack readers, 10 racks per case. Suitable for 4.0ml External Thread, Jacket Tri-coded Glass Tubes (part number 65-9002)

Brooks LIFE SCIENCES

FluidX Next-Generation Dual-Coded Sample Storage Tubes

Internal and External Thread

4

Introduction to FluidX 96-Format Next-Gen Dual-Coded Tubes

OVERVIEW

The FluidX Next-Gen Dual-Coded Tube features a 2D-code and Human Readable Number (HRN) on the tube base, allowing compatibility with low throughput manual workflows, semi-automated workflows or fully automated workflows on integrated platforms.

The tubes provide a lifelong and secure chain of custody for samples in biobanks, compound libraries and a broad range of biological and chemical stores, including cryogenic storage.

Designed and developed with broad compatibility in mind, the tubes perform without compromise in conjunction with automated barcode reading, capping and sample management systems from FluidX and all other industry-recognized manufacturers.

Dual-Coded tube internal thread

KEY FEATURES

- Permanently laser etched, 2D-code and a Human Readable Number (HRN) on the tube base
- Developed to exceed the demands of sample security, management and tracking in modern high-density storage
- 100% Quality Control, each tube is tested to ensure both readability and uniqueness
- Manufactured using an advanced manufacturing process which results in a one-piece tube from high-quality virgin polypropylene
- 2D-code and HRN ensure a permanent link between sample and data
- High-contrast 2D-codes are more reliably readable in frost or condensation conditions
- 2D-codes can be scanned and decoded without removing tubes from storage racks, enabling data to be associated with individual tubes
- Equally suitable for sealing with either screw caps or TPE septum caps
- FluidX tubes have been leak tested to ensure sample security
- Suitable for cryogenic storage
- Manufactured from high-quality virgin polypropylene, supplied production sterile

Screw Caps

- Automation friendly co-molded screw caps for internal thread tubes eliminate the possibility of over tightening
- Co-molded caps eliminate the failures in caps using a silicone O-ring
- A double-start thread engages in a maximum rotation of 180°, thereby facilitating automation

96-Well Format SBS Racks

- TwistLock: prevents tubes rotating within the rack to enable automated capping and decapping of screw caps, provided as standard
- LidLock: racks fitted with a LidLock latch are designed to withstand a 1m drop test for added sample security
- TubeLock: tubes can be locked in position in a rack, even without a lid, preventing them from falling out even if the rack is inverted. Lock or unlock simply by pushing tube downwards or upwards
- Automatic Rack Orientation: racks are supplied with a unique 2D barcode identifier which can be read at the same time as the tube 2D barcode, to provide automatic rack orientation and more secure sample tracking
- Direct Laser Etching: linear barcodes are permanently etched directly onto the rack

14 x 14 Cryo Storage Racks

- 136.2mm x 136.2mm polycarbonate cryobox rack option available for cryogenic sample storage
- Holds 196 tubes in 14 x 14 array
- Open bottom for 2D barcode decoding on FluidX Perception LF reader
- Cryo racks can be supplied with a unique 2D barcode identifier which can be read at the same time as the tube 2D barcode, to provide more secure sample tracking

FluidX 0.3ml 96-Format, Internal Thread, Next-Gen Dual-Coded Tube

- Supplied in 96-well format SBS racks, or un-racked compatible with 14x14 cryo storage racks
- Securely sealed using standard automation-friendly screw caps providing flexibility to use tubes across a range of industry-recognized automated tube handling platforms

	0.3ml automation friendly screw cap
	 0.3ml Internal Thread Next-Gen Dual-Coded with Screw Cap
Max Working Volume (ml)	0.33
Tube Height (mm)	21
Tube Height with Cap (mm)	29.3
Inner Diameter (mm)	6.8
Outer Diameter with Cap (mm)	8.7
Center to Center (mm)	9
Minimum Temperature (°C)	-196
Tube Height in Rack (mm)	29.5
Overall Rack Height inc. lid (mm)	33.1

Ordering Information

66-62326	**FluidX 96-format, 0.3ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, uncapped, bulk, 960 tubes per case
66-62326-Y6	**FluidX 96-format, 0.3ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, capped, bulk, 960 tubes per case
66-62325	**FluidX 96-format, 0.3ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, uncapped, 10 racks per case LowBase Rack. Empty rack part number: 66-51004
66-62325-1	**FluidX 96-format, 0.3ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, uncapped, 10 racks per case LowBase Rack, Lid suitable for TPE Caps only. Empty rack part number: 66-51003
66-62325-L	**FluidX 96-format, 0.3ml Internal Thread, Next-Gen Dual-coded Tube,** 2D-code and Human Readable Number on base, uncapped, 10 racks per case LowBase Rack, with TubeLock, includes Standard Profile Non-Locking Lid. Empty rack part number: 66-51014
66-62325-Y6	**FluidX 96-format, 0.3ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, capped, 10 racks per case LowBase Rack. Empty rack part number: 66-51004
66-62325-Y6-L	**FluidX 96-format, 0.3ml Internal Thread, Next-Gen Dual-coded Tube,** 2D-code and Human Readable Number on base, uncapped, 10 racks per case LowBase Rack, with TubeLock, includes Standard Profile Non-Locking Lid. Empty rack part number: 66-51014

FluidX 96-Format, 0.7ml Internal Thread, Next-Gen Dual-Coded Tube

- Supplied in 96-well format SBS racks, or un-racked compatible with 14x14 cryo storage racks
- Securely sealed using standard automation-friendly screw caps providing flexibility to use tubes across a range of industry-recognized automated tube handling platforms

	0.7ml automation friendly screw cap
	 0.7ml Internal Thread Next-Gen Dual-Coded Tube with Screw Cap
Max Working Volume (ml)	0.73
Tube Height (mm)	36.2
Tube Height with Cap (mm)	44.5
Inner Diameter (mm)	6.8
Outer Diameter with Cap (mm)	8.6
Center to Center (mm)	9
Minimum Temperature (°C)	-196
Tube Height in Rack (mm)	46.4
Overall Rack Height inc. lid (mm)	50.8

Ordering Information

66-62318	**FluidX 96-format, 0.7ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, uncapped, bulk, 960 tubes per case
66-62318-Y6	**FluidX 96-format, 0.7ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, capped, bulk, 960 tubes per case
66-62317	**FluidX 96-format, 0.7ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, uncapped, 10 racks per case HighBase Rack, Lid suitable for TPE Caps only. Empty rack part number: 66-61001
66-62317-L	**FluidX 96-format, 0.7ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, uncapped, 10 racks per case HighBase Rack, with TubeLock, Lid suitable for TPE Caps only. Empty rack part number: 66-51000
66-62319	**FluidX 96-format, 0.7ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, uncapped, 10 racks per case HighBase Rack. Empty rack part number: 66-61002
66-62319-L	**FluidX 96-format, 0.7ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, uncapped, 10 racks per case HighBase Rack, with TubeLock. Empty rack part number: 66-51016
66-62319-Y6	**FluidX 96-format, 0.7ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, capped, 10 racks per case HighBase Rack. Empty rack part number: 66-61002
66-62319-Y6-L	**FluidX 96-format, 0.7ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, capped, 10 racks per case HighBase Rack, with TubeLock. Empty rack part number: 66-51016

FluidX 96-Format, 0.9ml Internal Thread, Next-Gen Dual-Coded Tube

- Supplied in 96-well format SBS racks, or un-racked compatible with 14x14 cryo storage racks
- Securely sealed using standard automation-friendly screw caps providing flexibility to use tubes across a range of industry-recognized automated tube handling platforms

	0.9ml automation friendly screw cap
	 0.9ml Internal Thread Next-Gen Dual-Coded Tube with Screw Cap
Max Working Volume (ml)	0.92
Tube Height (mm)	43.5
Tube Height with Cap (mm)	51.8
Inner Diameter (mm)	6.8
Outer Diameter with Cap (mm)	8.6
Center to Center (mm)	9
Minimum Temperature (°C)	-196
Tube Height in Rack (mm)	53.8
Overall Rack Height inc. lid (mm)	61.8

Ordering Information

66-62345	**FluidX 96-format, 0.9ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, uncapped, bulk, 960 tubes per case
66-62345-Y6	**FluidX 96-format, 0.9ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, capped, bulk, 960 tubes per case
66-62321	**FluidX 96-format, 0.9ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, uncapped, 10 racks per case HighBase Rack, Lid suitable for TPE Caps only. Empty rack part number: 66-61002
66-62321-L	**FluidX 96-format, 0.9ml Internal Thread, Next-Gen Dual-coded Tube,** 2D-code and Human Readable Number on base, uncapped, 10 racks per case HighBase Rack, with TubeLock, Lid suitable for TPE Caps only. Empty rack part number: 66-51016
66-62330	**FluidX 96-format, 0.9ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, uncapped, 10 racks per case HighBase Rack, Lid suitable for Screw Caps and TPE Caps. Empty rack part number: 66-61003
66-62330-L	**FluidX 96-format, 0.9ml Internal Thread, Next-Gen Dual-coded Tube,** 2D-code and Human Readable Number on base, uncapped, 10 racks per case HighBase Rack, with TubeLock, Lid suitable for Screw Caps and TPE Caps. Empty rack part number: 66-51017
66-62330-Y6	**FluidX 96-format, 0.9ml Internal Thread, Next-Gen Dual-coded Tube,** 2D-code and Human Readable Number on base, uncapped, 10 racks per case HighBase Rack, Lid suitable for Screw Caps and TPE Caps. Empty rack part number: 66-61003
66-62330-Y6-L	**FluidX 96-format, 0.9ml Internal Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, uncapped, 10 racks per case HighBase Rack, with TubeLock, Lid suitable for Screw Caps and TPE Caps. Empty rack part number: 66-51017

FluidX 96-Format, 0.5ml External Thread, Next-Gen Dual-Coded Tube

- Supplied in 96-well format SBS racks, or un-racked compatible with 14x14 cryo storage racks
- Securely sealed using standard automation-friendly screw caps providing flexibility to use tubes across a range of industry-recognized automated tube handling platforms

	0.5ml automation friendly screw cap
	 0.5ml External Thread Next-Gen Dual-Coded with Screw Cap
Max Working Volume (ml)	0.55
Tube Height (mm)	26.4
Tube Height with Cap (mm)	29.8
Inner Diameter (mm)	6.5
Outer Diameter with Cap (mm)	8.5
Center to Center (mm)	9
Minimum Temperature (°C)	-196
Tube Height in Rack (mm)	30.0
Overall Rack Height inc. lid (mm)	33.1

Ordering Information

68-0701-00	**FluidX 96-format, 0.5ml External Thread, Next-Gen Dual-coded Tube,** 2D-code and Human Readable Number on base, uncapped, bulk, 960 tubes per case
68-0701-01	**FluidX 96-format, 0.5ml External Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, uncapped, 10 racks per case. LowBase Rack, Empty rack part number: 66-51004
68-0701-02	**FluidX 96-format, 0.5ml External Thread, Next-Gen Dual-coded Tube,** 2D-code and Human Readable Number on base, uncapped, 10 racks per case. HighBase Rack. Empty rack part number: 66-51026
68-0701-10	**FluidX 96-format, 0.5ml External Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, capped, bulk, 960 tubes per case
68-0701-11	**FluidX 96-format, 0.5ml External Thread, Next-Gen Dual-coded Tube,** 2D-code and Human Readable Number on base, capped, 10 racks per case. LowBase Rack. Empty rack part number: 66-51004
68-0701-12	**FluidX 96-format, 0.5ml External Thread, Next-Gen Dual-coded Tube,** 2D-code and Human Readable Number on base, capped, 10 racks per case. HighBase Rack. Empty rack part number: 66-51026

FluidX 96-Format, 0.9ml External Thread, Next-Gen Dual-Coded Tube

- Supplied in 96-well format SBS racks, or un-racked compatible with 14x14 cryo storage racks
- Securely sealed using standard automation-friendly screw caps providing flexibility to use tubes across a range of industry-recognized automated tube handling platforms

	0.9ml automation friendly screw cap
	 0.9ml External Thread Next-Gen Dual-Coded with Screw Cap
Max Working Volume (ml)	0.9
Tube Height (mm)	42.3
Tube Height with Cap (mm)	45.7
Inner Diameter (mm)	6.5
Outer Diameter with Cap (mm)	8.7
Center to Center (mm)	9
Minimum Temperature (°C)	-196
Tube Height in Rack (mm)	47.8
Overall Rack Height inc. lid (mm)	50.8

Ordering Information

68-1001-00	**FluidX 96-format, 0.9ml External Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, uncapped, bulk, 960 tubes per case
68-1001-01	**FluidX 96-format, 0.9ml External Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, uncapped, 10 racks per case HighBase Rack. Empty Rack part number: 66-61002
68-1001-02	**FluidX 96-format, 0.9ml External Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, uncapped, 10 racks per case HighBase Rack, with TubeLock. Empty Rack part number: 66-51016
68-1001-10	**FluidX 96-format, 0.9ml External Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, capped, bulk, 960 tubes per case
68-1001-11	**FluidX 96-format, 0.9ml External Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, capped, 10 racks per case HighBase Rack. Empty Rack part number: 66-61002
68-1001-12	**FluidX 96-format, 0.9ml External Thread, Next-Gen Dual-coded Tube**, 2D-code and Human Readable Number on base, uncapped, 10 racks per case HighBase Rack, with TubeLock. Empty Rack part number: 66-51016
66-61002	**FluidX 96-format, HighBase Rack, with TubeLock,** 10 racks per case. Suitable for: 0.7ml Internal Tubes with Screw Caps, 0.7ml External Tubes with Screw Caps, 0.9ml Internal Tubes with Septum TPE Caps and AirFilm Seals
66-51016	**FluidX 96-format, HighBase Rack, with TubeLock,** 10 racks per case. Suitable for: 0.7ml Internal and External Tubes with screw caps, 0.9ml External Tubes with Screw Caps, 0.9ml Internal with TPE Septum Caps
66-0196-01	**FluidX Cryo Rack 14x14, Black, polycarbonate,** 10 racks per case. Suitable for 0.3ml Internal, 0.5ml External, 0.5ml External Jacket and 0.48ml Internal Thread Jacket Tubes

FluidX 2D-Coded Sample Storage Tubes

Internal and External Thread

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FluidX External Thread 2D-Coded Tubes

FluidX External Thread 2D-coded tubes carry a unique and permanent high-contrast 2D-code tube identifier on the base of the tube readable in frost or condensation conditions, or when damaged. The tubes provide a lifelong and secure chain of custody for samples in biobanks, compound libraries and a broad range of biological and chemical stores, including cryogenic storage.

KEY FEATURES

- Permanently laser etched, 2D-code on base
- 100% Quality Control, each tube is tested to ensure both readability and uniqueness
- Manufactured from high-quality virgin polypropylene
- External thread tubes provide greater working volume than internal thread tubes
- Suitable for cryogenic storage as low as -196°C
- Secure Sample Storage and Tracking
- Available bulk uncapped or pre-capped
- Available pre-racked and pre-capped in 96, 48 and 24 well format SBS racks
- 2D-codes readable without removing tubes from racks

Screw Caps

- A deforming compression seal is more effective than a silicone alternative
- Non-silicone seal means the cap can never be over-tightened
- Caps and tubes are manufactured from the same material, preventing differential expansion during freeze-thaw cycles
- A double-start thread engages in a maximum rotation of 180° thereby facilitating automation

TPE Septum Caps

- A cost-effective sealing option for samples that are only accessed occasionally
- Septum caps are supplied in 96-format back mats to facilitate automation

FluidX Internal Thread 2D-Coded Tubes

FluidX 2D-coded internal thread tubes carry a unique and permanent high-contrast 2D-code tube identifier on the base of the tube readable in frost or condensation conditions, or when damaged. The tubes provide a lifelong and secure chain of custody for samples in biobanks, compound libraries and a broad range of biological and chemical stores, including cryogenic storage.

KEY FEATURES

- Permanently laser etched, 2D-code on base
- 100% Quality Control, each tube is tested to ensure both readability and uniqueness
- Manufactured from high-quality virgin polypropylene
- Suitable for cryogenic storage as low as -196°C
- Secure Sample Storage and Tracking
- Available bulk uncapped or pre-capped
- Available pre-racked and pre-capped in 96, 48 and 24 well format SBS racks
- 2D-codes readable without removing tubes from racks

Screw Caps

- Co-molded screw caps for internal thread tubes eliminate the possibility of over-tightening
- Co-molded caps eliminate the failures common in caps using silicon O-rings
- Improved internal thread provides a more secure seal when using screw caps

TPE Septum Caps

- Cost-effective sealing option for samples that are only accessed occasionally
- Septum caps are supplied in 96-format back mats to facilitate automation

FluidX 96-format, 0.2ml External Thread, 2D-Coded Tube

- Supplied in 96-well format SBS racks
- Securely sealed using screw caps

	0.2ml External Thread 2D-coded tube with screw cap
	 0.2ml External Thread 2D-coded tube with screw cap
Max Working Volume (ml)	0.2
Tube Height (mm)	24.1
Tube Height with Cap (mm)	27.5
Inner Diameter (mm)	3.9
Outer Diameter with Cap (mm)	5.8
Center to Center (mm)	9.0
Minimum Temperature (°C)	-196
Tube Height in Rack (mm)	28
Overall Rack Height inc. lid (mm)	31

Ordering Information

67-0203-00	**FluidX 96-format Rack,** 10 racks per case. Suitable for 0.2ml Tubes
67-0203-01	**FluidX 96-format, 0.2ml External Thread, 2D-coded Tube**, 2D-code on base, uncapped, bulk, 960 tubes per case
67-0203-10	**FluidX 96-format, 0.2ml External Thread, 2D-coded Tube**, 2D-code on base, capped, bulk, 960 tubes per case
67-0203-02	**FluidX 96-format, 0.2ml External Thread, 2D-coded Tube,** 2D-code on base, uncapped, 10 racks per case. 96 Format Rack, with 1D Linear Barcode and 2D Rack ID, Low Profile Lid Empty rack part number: 67-0203-00
67-0203-11	**FluidX 96-format, 0.2ml External Thread, 2D-coded Tube**, 2D-code on base, capped, 10 racks per case. 96 Format Rack, with 1D Linear Barcode and 2D Rack ID, Low Profile Lid Empty rack part number: 67-0203-00
67-0203-51	**FluidX External Thread Screw Cap,** 96-format, bulk, 960 caps per case. Suitable for 0.2ml External Thread, 2D-coded Tube

FluidX 48-format, 1.8ml Internal Thread, 2D-Coded Tube

- Supplied in bulk for 48-well format SBS racks
- 9x9 tube array cryogenic storage racks or 10x10 tube array cryogenic storage racks available as options
- Securely sealed using screw caps

	1.8ml Internal Thread 2D-coded tube with screw cap
	 1.8ml Internal Thread 2D-coded tube with screw cap
Max Working Volume (ml)	1.8
Tube Height (mm)	38.0
Tube Height with Cap (mm)	47.8
Inner Diameter (mm)	10.6
Outer Diameter with Cap (mm)	12.6
Center to Center (mm)	13.5
Minimum Temperature (°C)	-196
Tube Height in Rack (mm)	45
Overall Rack Height inc. lid (mm)	56

Ordering Information

65-7502	**FluidX 48-format, 1.8ml Internal Thread, 2D-coded Tube**, 2D-code on base, capped, bulk, 100 Tubes per Case

FluidX 48-format, 1.8ml External Thread 2D-Coded Tube

- Supplied in bulk for 48-well format SBS racks
- 9x9 tube array cryogenic storage racks also available
- Securely sealed using screw caps

	1.8ml External Thread 2D-coded tube with screw cap
	 1.8ml External Thread 2D-coded tube with screw cap
Max Working Volume (ml)	1.8
Tube Height (mm)	40.0
Tube Height with Cap (mm)	47.1
Inner Diameter (mm)	9.8
Outer Diameter with Cap (mm)	13.1
Center to Center (mm)	13.5
Minimum Temperature (°C)	-196
Tube Height in Rack (mm)	45
Overall Rack Height inc. lid (mm)	56

Ordering Information

65-7501-01	**FluidX 48-format, 1.8ml External Thread, 2D-coded Cryo Tube,** 2D-code on base, capped with Automation-Friendly Screw Cap, sterile, bulk, 100 tubes per case
65-7541	**FluidX 48-format Disposable Rack,** with Open Bottom for reading on XTR range of rack readers, 10 racks per case. Suitable for 1.8ml 2D-coded Cryo Tubes
65-9458	**FluidX 48-format Rack, 1 Piece Rack Base,** with Open Bottom for reading on our range of rack readers, 10 racks per case. Suitable for: 2ml Tri-coded Glass Tubes (part number 65-9001) 1ml, 1.8ml and 2ml Tri-coded Cryo Tubes (part number 65-7501-01, 65-7502, 65-7503, 65-7505)
65-9452	**FluidX 48-format Rack**, 2 Piece Rack Base, with Open Bottom for reading on XTR range of rack readers, 10 racks per case. Suitable for: 1.8ml Tri-coded Glass Tubes (part number 65-9001) 1ml, 1.8ml and 2ml Tri-coded Cryo Tubes (part number 65-7501-01, 65-7502, 65-7503, 65-7504, 65-7505)
65-1700	**FluidX Cryo Rack 9x9**, White, polypropylene, 10 racks per case
66-1802	**FluidX Cryo Rack 9x9**, Black, polycarbonate, 10 racks per case. Suitable for Taller Cryo Tubes

Brooks LIFE SCIENCES

FluidX Non-Coded Sample Storage Tubes

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FluidX Non-Coded Tubes

In addition to our fully traceable coded tubes offering sample security, management and tracking in modern high-density storage applications, FluidX tubes are also available non-coded or with alpha numeric coding.

Ordering Information

0.5ml Non-Coded External Thread Screw Cap Tubes

66-0700-00	**FluidX 96-format, 0.5ml External Thread, Non-coded Tube**, uncapped, bulk, 960 tubes per case
66-0700-01	**FluidX 96-format, 0.5ml External Thread, Non-coded Tube**, uncapped, 10 racks per case
66-0700-02	**FluidX 96-format, 0.5ml External Thread, Non-coded Tube**, uncapped, 10 racks per case. HighBase Rack. Empty rack part number: 66-51026
66-0700-11	**FluidX 96-format, 0.5ml External Thread, Non-coded Tube,** capped, 10 racks per case. LowBase Rack. Empty rack part number: 66-51004
66-0700-12	**FluidX 96-format, 0.5ml External Thread, Non-coded Tube**, capped, 10 racks per case. HighBase Rack. Empty rack part number: 66-51026

0.7ml Non-Coded External Thread Screw Cap Tubes

66-1000-00	**FluidX 96-format, 0.7ml External Thread, Non-coded Tube**, uncapped, bulk, 960 tubes per case
66-1000-10	**FluidX 96-format, 0.7ml External Thread, Non-coded Tube**, capped, bulk, 960 tubes per case
66-1000-01	**FluidX 96-format, 0.7ml External Thread, Non-coded Tube**, uncapped, 10 racks per case. HighBase Rack. Empty rack part number: 66-61002
66-1000-02	**FluidX 96-format, 0.7ml External Thread, Non-coded Tube,** uncapped, 10 racks per case. HighBase Rack, with TubeLock. Empty rack part number: 66-51016
66-1000-11	**FluidX 96-format, 0.7ml External Thread, Non-coded Tube**, capped, 10 racks per case. HighBase Rack. Empty rack part number: 66-61002
66-1000-12	**FluidX 96-format, 0.7ml External Thread, Non-coded Tube**, capped, 10 racks per case. HighBase Rack, with TubeLock. Empty rack part number: 66-51016

0.3ml Non-Coded Internal Thread Tubes

66-32040	**FluidX 96-format, 0.3ml Internal Thread, Non-coded Tube**, uncapped, bulk, 960 tubes per case
66-32040-Y6	**FluidX 96-format, 0.3ml Internal Thread, Non-coded Tube**, capped, bulk, 960 tubes per case
66-32041	**FluidX 96-format, 0.3ml Internal Thread, Non-coded Tube**, V-bottom, uncapped, 10 racks per case. LowBase Rack, suitable for use with Screw Cap Tubes. Empty rack part number: 66-51004
66-32141	**FluidX 96-format, 0.3ml Internal Thread, Non-coded Tube**, uncapped, 10 racks per case. LowBase Rack, Lid suitable for use with TPE Caps/AirFilm only. Empty rack part number: 66-51003
66-32041-Y6	**FluidX 96-format, 0.3ml Internal Thread, Non-coded Tube,** V-bottom, capped, 10 racks per case. LowBase Rack. Empty rack part number: 66-51004
66-32041-Y6-L	**FluidX 96-format, 0.3ml Internal Thread, Non-coded Tube**, V-bottom, capped, 10 racks per case. LowBase Rack, with TubeLock, includes Standard Profile Non-Locking Lid. Empty rack part number: 66-51014

0.7ml Non-Coded Internal Thread Tubes

66-32033	**FluidX 96-format, 0.7ml Internal Thread, Non-coded Tube,** uncapped, bulk, 960 tubes per case
66-32033-Y6	**FluidX 96-format, 0.7ml Internal Thread, Non-coded Tube**, capped, bulk, 960 tubes per case
66-32034	**FluidX 96-format, 0.7ml Internal Thread, Non-coded Tube**, V-bottom, uncapped, 10 racks per case. HighBase Rack. Empty rack part number: 66-61002
66-32034-Y6	**FluidX 96-format, 0.7ml Internal Thread, Non-coded Tube**, V-bottom, capped, 10 racks per case. HighBase Rack. Empty rack part number: 66-61002
66-32034-L	**FluidX 96-format, 0.7ml Internal Thread, Non-coded Tube**, V-bottom, uncapped, 10 racks per case. HighBase Rack, with TubeLock. Empty rack part number: 66-51016
66-32034-Y6-L	**FluidX 96-format, 0.7ml Internal Thread, Non-coded Tube**, V-bottom, capped, 10 racks per case. HighBase Rack, with TubeLock. Empty rack part number: 66-51016

0.9ml Non-Coded Internal Thread Screw Cap Tubes

66-32062	**FluidX 96-format, 0.9ml Internal Thread, Non-coded Tube**, uncapped, bulk, 960 tubes per case
66-32062-Y6	**FluidX 96-format, 0.9ml Internal Thread, Non-coded Tube**, capped, bulk, 960 tubes per case
66-32042	**FluidX 96-format, 0.9ml Internal Thread, Non-coded Tube**, uncapped, 10 racks per case. HighBase Rack, Lid suitable for TPE Caps only. Empty rack part number: 66-61002
66-32043	**FluidX 96-format, 0.9ml Internal Thread, Non-coded Tube**, uncapped, 10 racks per case. HighBase Rack, Lid suitable for Screw Caps and TPE Caps. Empty rack part number: 66-61003
66-32043-Y6	**FluidX 96-format, 0.9ml Internal Thread, Non-coded Tube**, capped, 10 racks per case. HighBase Rack, Lid suitable for Screw Caps and TPE Caps. Empty rack part number: 66-61003
66-32042-L	**FluidX 96-format, 0.9ml Internal Thread, Non-coded Tube,** uncapped, 10 racks per case. HighBase Rack, with TubeLock, Lid suitable for TPE Caps only. Empty rack part number: 66-51016
66-32043-L	**FluidX 96-format, 0.9ml Internal Thread, Non-coded Tube**, uncapped, 10 racks per case. HighBase Rack, with TubeLock, Lid suitable for Screw Caps and TPE Caps. Empty rack part number: 66-51017
66-32043-Y6-L	**FluidX 96-format, 0.9ml Internal Thread, Non-coded Tube**, capped, 10 racks per case. HighBase Rack, with TubeLock. Empty rack part number: 66-51017

FluidX Capping and Sealing Options

FluidX Screw Caps

Developed to exceed the demands of sample security, management and tracking in modern high-density storage applications, screw caps are manufactured from high-quality virgin polypropylene and are designed for optimal seal quality and sample security.

Compatible with all FluidX 96-format sample storage tubes with a screw top, caps are available for use with either external or internal thread FluidX screw top tubes and are supplied production sterile in bags of 960 caps.

Practical Design Based on Experience of Applications

- High chemical resistance
- Broad operating temperature range -196°C to +121°C, do not use in liquid phase nitrogen
- Automation friendly, available in FluidX Cap Carrier for use with automated capping and de-capping systems
- Autoclavable
- Available in up to 10 different colors to aid sample identification

Screw Caps for External Thread FluidX Tubes

- Deforming compression seal is more effective than a silicone alternative
- Non-silicone seal means the cap can never be over-tightened
- Cap and tube manufactured from the same material, preventing differential expansion during freeze-thaw cycles
- Double-start thread engages in a maximum rotation of 180°, facilitating automation

Screw Caps for Internal Thread FluidX Tubes

- Co-molded screw caps for internal thread tubes eliminate the possibility of over-tightening
- Co-molded caps eliminate the failures common in caps using silicon O-rings
- Improved internal thread provides a more secure seal when using screw caps

Designed for Reduced Sample Loss

- Significant amounts of liquid can become trapped within a standard design screw cap, resulting in potential loss of valuable sample
- This hollow area on the cap can catch sample, and surface tension then makes cap removal difficult
- Studies demonstrate that FluidX cap design, with a reduced hollow, reduces this effect by lowering liquid retention whilst maintaining seal quality

Ordering Information

External Thread Screw Caps

68-53111-10N	**FluidX Cap Carrier (External Thread),** With Orange Caps, 96-format, SBS stackable, re-usable, 10 carriers/960 caps per case. Suitable for all FluidX 96-format External Thread Screw Cap Tubes
68-53111-50N	**FluidX Cap Carrier (External Thread),** With Orange Caps, 96-format, SBS stackable, re-usable, 50 carriers/4,800 caps per case. Suitable for all FluidX 96-format External Thread Screw Cap Tubes
68-53100-Z1N	**FluidX External Thread Screw Cap,** White, 96-format, bulk, 960 caps per case
68-53100-Z2N	**FluidX External Thread Screw Cap**, Red, 96-format, bulk, 960 caps per case
68-53100-Z3N	**FluidX External Thread Screw Cap**, Yellow, 96-format, bulk, 960 caps per case
68-53100-Z4N	**FluidX External Thread Screw Cap**, Blue, 96-format, bulk, 960 caps per case
68-53100-Z5N	**FluidX External Thread Screw Cap**, Transparent Blue, 96-format, bulk, 960 caps per case
68-53100-Z6N	**FluidX External Thread Screw Cap**, Orange, 96-format, bulk, 960 caps per case
68-53100-Z8N	**FluidX External Thread Screw Cap**, Green, 96-format, bulk, 960 caps per case
68-53100-Z10N	**FluidX External Thread Screw Cap**, Amber, 96-format, bulk, 960 caps per case
68-53100-Z11N	**FluidX External Thread Screw Cap**, Purple, 96-format, bulk, 960 caps per case
68-53100-Z12N	**FluidX External Thread Screw Cap**, Natural, 96-format, bulk, 960 caps per case
68-53100-Z13N	**FluidX External Thread Screw Cap**, Black, 96-format, bulk, 960 caps per case

External Thread Cryo Caps

65-7571-01	**FluidX External Thread Caps for Non-Jacket Cryo Tubes**, Automation Friendly, bulk, Orange, 1,000 per case
65-7572	**FluidX External Thread Screw Cap,** Orange, 48-format, bulk, 480 caps per case. Suitable for 48-format Cryo Tubes
65-7573	**FluidX External Thread Screw Cap,** Red, 48-format, bulk, 480 caps per case. Suitable for 48-format Cryo Tubes
65-7574	**FluidX External Thread Screw Cap,** Blue, 48-format, bulk, 480 caps per case. Suitable for 48-format Cryo Tubes
65-7575	**FluidX External Thread Screw Cap,** Green, 48-format, bulk, 480 caps per case. Suitable for 48-format Cryo Tubes
65-7576	**FluidX External Thread Screw Cap,** Yellow, 48-format, bulk, 480 caps per case. Suitable for 48-format Cryo Tubes

Internal Thread Screw Caps

66-63100-Y1	**FluidX Internal Thread Screw Cap,** White, 96-format, bulk, 960 caps per case
66-63100-Y2	**FluidX Internal Thread Screw Cap**, Red, 96-format, bulk, 960 caps per case
66-63100-Y3	**FluidX Internal Thread Screw Cap,** Yellow, 96-format, bulk, 960 caps per case
66-63100-Y4	**FluidX Internal Thread Screw Cap**, Blue, 96-format, bulk, 960 caps per case
66-63100-Y5	**FluidX Internal Thread Screw Cap**, Transparent Blue, 96-format, bulk, 960 caps per case
66-63100-Y6	**FluidX Internal Thread Screw Cap**, Orange, 96-format, bulk, 960 caps per case
66-63100-Y8	**FluidX Internal Thread Screw Cap,** Green, 96-format, bulk, 960 caps per case
66-63100-Y10	**FluidX Internal Thread Screw Cap**, Amber, 96-format, bulk, 960 caps per case
66-63100-Y11	**FluidX Internal Thread Screw Cap**, Purple, 96-format, bulk, 960 caps per case
66-63100-Y12	**FluidX Internal Thread Screw Cap**, Natural, 96-format, bulk, 960 caps per case
66-63100-Y13	**FluidX Internal Thread Screw Cap**, Black, 96-format, bulk, 960 caps per case

Cryo Caps

65-7551	**FluidX Internal Thread Screw Cap**, Natural, bulk, 1,000 caps per case
65-7552	**FluidX Internal Thread Screw Cap**, Orange, bulk, 1,000 caps per case

FluidX TPE Septum Caps

Developed to meet the needs of sample security, management and tracking in modern high-density storage applications, TPE septum caps are a disposable, thermo plastic elastomer (TPE) cap designed for optimal seal quality. Compatible with 96-format tubes, TPE caps are available for use with either external or internal thread tubes and are manufactured from high-quality TPE, supplied production sterile as 96-cap mats or in bulk.

Practical Design Based on Experience of Applications

- Piercable cap, for use with any 96-format FluidX tube
- Broad operating temperature range, suitable for use -80°C to +110°C
- Ideal solution for -20°C storage with occasional access
- Available in a choice of five colors (internal thread tubes only) to aid sample identification
- Caps for external thread tubes available only in natural color
- Suitable for Automatic and Semi-Automatic Cappers and De-cappers
- Natural color only recommended for automatic systems
- Supplied in 96-format back mats to facilitate automation

Septum Cap Compatibilty

- Suitable for 96-format FluidX Jacket Tri-coded Sample Storage Tubes
  - Internal thread 0.65ml, 0.9ml
  - External thread 0.26ml, 0.5ml, 1.0ml
- Suitable for FluidX 96-format Next-Generation Dual-coded Tubes
  - Internal thread 0.3ml, 0.7ml, 0.9ml
  - External thread 0.5ml, 0.9ml

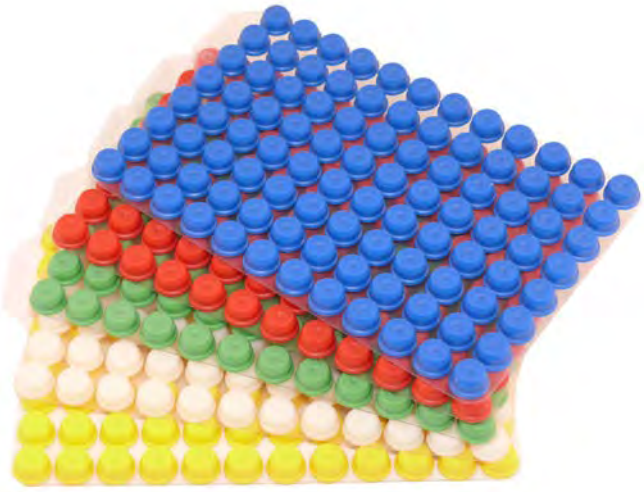
Ordering Information

External Thread TPE Septum Seals

65-75000	**FluidX TPE Septum Cap,** Natural, 96-format, on backing mat, 50 mats/4,800 caps per case. Suitable for all External Thread Tubes
65-76000	**FluidX TPE Septum Cap,** Natural, 96-format, bulk, 960 caps per case. Suitable for all External Thread Tubes

Practical Design Based on Experience of Applications

- Piercable cap, for use with any 96-format FluidX tube
- Broad operating temperature range, suitable for use -80°C to +110°C
- Ideal solution for -20°C storage with occasional access
- Available in a choice of five colors (internal thread tubes only) to aid sample identification
- Caps for external thread tubes available only in natural color
- Suitable for Automatic and Semi-Automatic Cappers and De-cappers
- Natural color only recommended for automatic systems
- Supplied in 96-format back mats to facilitate automation



Septum Cap Compatibilty

- Suitable for 96-format FluidX Jacket Tri-coded Sample Storage Tubes
  - Internal thread 0.75ml, 1.3ml
  - External thread 0.3ml, 0.7ml, 1.0ml

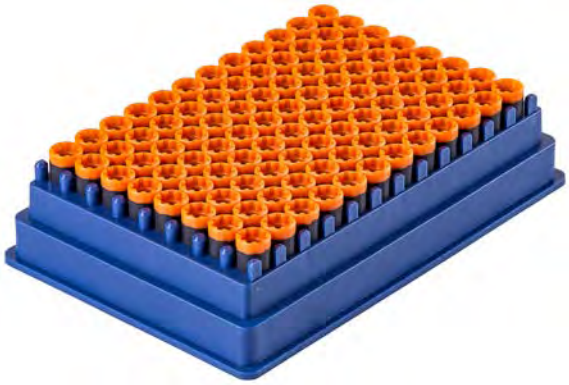
- Suitable for 96-format FluidX 2D-Barcoded Sample Storage Tubes
  - Internal thread 0.5ml, 1.0ml, 1.4ml
  - External thread 0.7ml, 1.0ml

Ordering Information

Internal Thread TPE Septum Seals

65-73000	**FluidX Pierceable TPE Septum Cap**, Natural, 96-format, on backing mat, 50 mats/4,800 caps per case. Suitable for all Internal Thread Tubes
65-73001	**FluidX Pierceable TPE Septum Cap**, Blue, 96-format, on backing mat, 50 mats/4,800 caps per case. Suitable for all Internal Thread Tubes
65-73002	**FluidX Pierceable TPE Septum Cap**, Green, 96-format, on backing mat, 50 mats/4,800 caps per case. Suitable for all Internal Thread Tubes
65-73003	**FluidX Pierceable TPE Septum Cap**, Red, 96-format, on backing mat, 50 mats/4,800 caps per case. Suitable for all Internal Thread Tubes
65-73004	**FluidX Pierceable TPE Septum Cap**, Yellow, 96-format, on backing mat, 50 mats/4,800 caps per case. Suitable for all Internal Thread Tubes
65-74000	**FluidX Pierceable TPE Septum Cap**, Natural, 96-format, bulk, 960 caps per case. Suitable for all Internal Thread Tubes

FluidX SBS Cap Carriers



SBS-format screw cap carriers enable automated capping of 96-format sample storage tubes. Cap carriers are suitable for manual use or for use with FluidX Aperio™ Semi-Automated Capping and De-capping systems and IntelliXcap / XSD-Series Automated Capping and De-capping systems.

Cap carriers are supplied in cases of 10 or 50, pre-filled with low-retention screw caps that can reduce sample loss (960 caps per case for 10 cap carriers, 4800 caps per case for 50 cap carriers.

Improved Process Efficiency

- Cap Carriers enable uncapped tubes to be used immediately and then capped using an automated capping and de-capping system
- Leads to improved process efficiency and allows batch filling of tubes prior to capping
- When used manually, by transferring caps from the carrier to the tube using a single tube transfer device, the operation becomes faster and the risk of contamination is reduced as cap handling is eliminated

Ordering Information

68-53111-50X	**FluidX Cap Carrier (External and Internal Thread)**, Empty, 96-format, SBS stackable, re-usable, 50 carriers per case. Suitable for all FluidX 96-format External and Internal Thread Screw Cap Tubes
67-63111-10	**FluidX Cap Carrier (Co-molded Internal Thread),** With Orange Caps, 96-format, SBS stackable, re-usable, 10 carriers/960 caps per case. Suitable for all FluidX Internal Thread Screw Cap Tubes
67-63111-50	**FluidX Cap Carrier (Co-molded Internal Thread)**, With Orange Caps, 96-format, SBS stackable, re-usable, 50 carriers/4,800 caps per case. Suitable for all FluidX Internal Thread Screw Cap Tubes
68-53111-10N	**FluidX Cap Carrier (External Thread)**, With Orange Caps, 96-format, SBS stackable, re-usable, 10 carriers/960 caps per case. Suitable for all FluidX 96-format External Thread Screw Cap Tubes
68-53111-50N	**FluidX Cap Carrier (External Thread)**, With Orange Caps, 96-format, SBS stackable, re-usable, 50 carriers/4,800 caps per case. Suitable for all FluidX 96-format External Thread Screw Cap Tubes


biocision
CoolCell | LX

FluidX Sterilisation Services

FluidX Sterilisation Services

We understand how important it is to provide labware in a pristine condition and ideally suited for your research. This is why we provide four alternative methods for contamination-free products.

Production Sterile

Prevention is better than a cure, so we manufacture all sample storage consumables in an ISO class 8 clean-room environment. To gain access to this area, everyone must wear a gown, gloves, face mask, hair net and overshoes. In addition, they must pass through a double door with an "air-shower" designed to remove any particles. No material that could cause contamination is allowed in the clean-room.

The products are sterile at the point of molding, which takes place at temperatures that melt the resin – typically between 140°C to 150°C for copolymer and 165°C to 175°C for homopolymer.

From the injection molding machine, our consumables are processed and bagged in the clean-room. Only once they have left the clean-room are they are placed in the transport box for shipment.

The efficacy of this process is tested periodically, which allows us to have a high degree of confidence that our products are "production sterile" and meet the standards outlined in the table below.

Contaminant	Testing Standard
Endotoxin (Pyrogen)	Product(s) are tested on a periodic basis and found to be below the acceptance level ≤0.05 EU/ml
DNA/RNA DNase/RNase	Product(s) are free of contaminations based on 3rd party electrophoresis evaluation of degradation
Heavy Metals	No heavy metal is contained in any of our product(s) that meet CONEG requirements of 100 ppm/weight
Animal (TSE/BSE)	No product(s) are manufactured from or comes into contact with, animal materials
PCR Inhibitors	Product(s) are PCR-inhibitor free

Gamma Irradiation Sterilisation

Typically, laboratory consumables requiring sterilisation are treated to ensure a "Sterility Assurance Level" (or SAL) of either 10^{-3} or 10^{-6}. Irradiation does not guarantee the product is free from other contaminants such as those listed above, only that there are no viable micro-organisms. It is still essential to confirm no contaminants are present to verify SAL.

Gamma irradiation is not guaranteed to destroy DNA contamination to the point where it doesn't amplify or interfere with subsequent analysis. Ensuring that no amplifiable DNA is present relies on (i) production-sterile manufacturing and testing described above and (ii) fulfilling requirements for sensitive applications such as sterilisation using Ethylene Oxide (EtO).

Gamma irradiation can negatively affect polypropylene, making it more brittle over time and increasing the binding characteristics of the plastic. For this reason, Brooks Life Sciences recommends that wherever possible, production sterility is relied on to deliver the contamination-free product required for research and long-term storage.

Ethylene Oxide Sterilisation (EtO)

Sterilisation using EtO is just as effective as gamma irradiation at providing a sterility assurance level of 10^{-6}. In addition, it ensures there is no DNA that can be amplified to a level where there is risk of subsequent interference. Therefore, EtO is the sterilisation method of choice in critical areas such as forensics.

Dual Ethylene Oxide Sterilisation (EtO2)

The newly published ISO 18385:2016 standard centers on minimizing the risk of human DNA contamination in consumable products used in collection, storage, or analysis of biological material for forensic DNA purposes. Dual EtO treatment is being recommended to further minimize the presence of PCR-amplifiable DNA.

Ordering Information

	Production Sterile	Gamma Irradiation	Ethylene Oxide	Dual Ethylene Oxide
General Description	Product is made in an ISO 8 (class 100K) clean room. Product is endotoxin (pyrogen), DNAase/RNAase, heavy metals & animal-free.	Ensures no viable micro-organisms but cannot guarantee destroyed DNA contamination. Affects PP, making it more brittle over time & increasing binding of plastic.	Effective at ensuring no DNA can be amplified to a level where there is any risk of interference.	Recommended for consumables used in the collection, storage, or analysis of biological material for forensic DNA.
Recommended for standard use	Yes	No	No	No
Recommended for critical forensic applications (DNA amplification)	No	No	Yes	Yes
Modifies Polypropylene	No	Yes	No	No
Product types	All	Pre-capped or uncapped tubes	Uncapped tubes only, bulk caps, cap carriers	Uncapped tubes only, bulk caps, cap carriers
Packaging	Bulk, case of 10 racks	Sleeve of five racks as standard – individually wrapped as option	Individually wrapped	Individually wrapped
Min Quantity	None	10 cases	25 cases	25 cases
Part number	N/A	-GS	-S	-DS
Example part number	68-0703-02	68-0703-02-GS	68-0703-02-S	68-0703-02-DS

Recommended Temperature Range for FluidX Sample Storage Tubes

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Recommended Temperature Range for FluidX Sample Storage Tubes

Cryogenic storage at very cold temperatures is designed to provide an indefinite, if not nearly infinite, longevity to biological materials.

By reducing sample temperatures to below the glass transition phase of water (-132°C), all metabolic activity comes to a halt. Storage below this temperature therefore offers the most secure form of long term cryopreservation.

Storage in gas phase liquid Nitrogen provides a convenient way of storing samples at temperatures below this transition temperature.

FluidX screw cap storage tubes are designed for long term sample storage at cryogenic temperatures, including storage in the gas phase of liquid Nitrogen.

Gas phase liquid Nitrogen temperatures have been typically quoted as between -150°C and -178°C, depending on the location and the distance away from the liquid nitrogen reservoir surface. However, the latest generation of cryogenic storage systems are powered by liquid nitrogen in such a way to ensure a consistent temperature within the storage chamber, and can be as low as -195°C.

All FluidX screw cap storage tubes are fully compatible with this storage temperature and can be safely used for long term storage in this environment. However, immersion in liquid nitrogen is not recommended for two reasons:

1. Liquid nitrogen is extremely pervasive.

   If a tube cap is not completely and correctly tightened nitrogen may seep inside the tube. When the tube is then removed from storage this liquid nitrogen will instantly boil, expanding to over 700 times its liquid volume. This creates a significant risk of explosion and/or biohazard risk from aerosols.
2. Many researchers have noted that immersion in liquid nitrogen carries with it a significant risk of cross contamination from bacteria, viruses and DNA that can be present within the liquid Nitrogen.

   Therefore, if required, snap-freezing is best achieved by immersing the tube in liquid nitrogen to a depth that avoids the nitrogen coming into direct contact with the tube cap

BioStore™ III Cryo with CryoPod™ Carrier

BioStore™ III Cryo

How Safe Are Your Samples? - Leachables and Extractables, Working Volume and Pressure Testing

White Papers Available

Part I: Evaluation of FluidX External Thread Tubes for Potential Leachable Compounds - Most plastics are supplied sterile, pyrogen- and DNAse/RNAse-free, it is generally accepted that this guarantees product integrity. Few researchers ever consider that despite these apparent guarantees, plastic ware can still provide a potential source of error. Evidence shows that bioactive compounds can diffuse into solutions that come into contact with the surface of the plastic. These compounds, typically referred to as “leachables” or “extractables”, are used during the manufacturing process to improve product stability and durability.

The aim of this evaluation was to determine if “extractables” could be detected in solvent solutions stored in FluidX external thread tubes and to compare the performance against competitor tubes.

Part II - Working Volume - Knowledge of the working volume is a key criterion to consider when selecting the most appropriate tube and, is dependent on a range of factors including: Fill volume of the tube; Accuracy of the volume dispensed; Freezing conditions; Thawing conditions; Cap selected; Burst pressure of the cap.

Manufacturers of sample storage tubes specify the size of tubes in a variety of ways, but rarely state the sample type or storage conditions required to achieve the volumes stated. This can lead to catastrophic results if the working volume of the tube is exceeded.

Part III: Sample Integrity Through Secure Capping - When using sample tubes, secure capping is paramount to protect sample integrity during the storage and handling process for a range of applications. These applications could include; Biobanking, Compound Management, Cell Therapy, Benchtop Research or applied industry. Two major hazards that can be mitigated through safe and secure sample tube capping are Evaporation and Cross contamination.

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FluidX Barcode Reading Systems

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FluidX Barcode Reading Systems

FluidX provides dependable decoding solutions. Our range of single-tube and whole-rack sample tube readers are the result of over 15 years of continuous development and innovation, bringing the best products, with the most useful features, to the sample storage market.

Orbit™ Single Tube Barcode Reader

Orbit

The entry-level Orbit single tube reader is a high-performance, easy to use, benchtop reader. Orbit has the dual capability of decoding any 2D datamatrix coded tube and reading any tube carrying a 1D linear barcode.

Given the variety of 2D-coded tubes on the market, Orbit is designed and developed with broad compatibility in mind. Orbit can read any 2D-coded sample tube currently on the market, not only those supplied by FluidX.

Orbit is supplied with a 5-year warranty.

KEY FEATURES

Compatible with all 2D-Coded Tubes

- All FluidX single tube readers are compatible with all FluidX sample storage tubes as well as any 2D datamatrix coded tubes, including those supplied by Greiner, Matrix, Nunc, LVL and Micronic
- Any tube size can be read. Orbit will quickly scan tubes in 24, 48, 96, 240 and 384-well rack formats, as well as larger capacity tubes including glass compound storage tubes, cryo tubes and biological sample tubes

Fast Set Up

- Orbit takes just a few moments to set up with an automatic calibration feature. Plug into a PC or laptop via USB connection and the software will look after the rest of the set-up process
- Reading less commonly used tube types is easy. Simply select the AutoLearn feature in the software to problem-free calibration
- No external power supply is required due to USB connectivity to PC or laptop

Easy to Use in Working Environment

- The large scanning window and superior decoding technology makes tube reading quick and easy, even for users wearing gloves

Rapid Results

- Orbit takes less than one second to scan and decode any 2D-coded tube
- The tube ID is displayed instantly on the computer screen for identification or sample entry, or the application can be run in the background

Direct Data Export to Any Application

- The FluidX keyboard wedge allows you to enter the results into any application
- Simply place the cursor where the data is to be entered before scanning the tube. The data will instantly be displayed wherever the cursor is positioned
- Orbit will insert tube data into any application, such as Excel, Notepad, etc.

	Orbit™ Single Tube Barcode Reader
	
Code formats read	Datamatrix, ISO 16022, square and rectangular format, ECC200, 0 to 20 grid sizes, white on black, black on white, numeric, alpha numeric and 1D linear barcodes
Sensor type	1/3" CCD
Light source	R LED
Read time	< 1 second
Ambient operating temperature	5°C to 50°C
Tube compatibility	All tubes in 24, 48, 96, 240 and 384-formats Glass compound storage tubes, cryo tubes, biological sample tubes
Dimensions	90mm (H) x 100mm (W) x 100mm (D)
Weight	0.25kg
Power requirements	5V DC 0.1A max, supplied through USB
User interface	FluidX GUI
Cable length	1.5m
Cable interface	USB 2.0
Operating system	Windows XP, Windows 7, Windows 8, Windows 10

Ordering Information

20-1001	**FluidX Orbit™ Single Sample Tube Reader** For use with all 2D datamatrix coded sample storage tubes

Scope™ Single Tube Barcode Readers

FreezerPRO Compatible

Scope

Scope BT Wireless

The Scope tube reader range comprises high-performance, easy to use, portable readers. Scope has the dual capability of decoding any 2D data matrix coded tube and reading any tube or rack carrying a 1D linear barcode.

Given the variety of 2D-coded tubes on the market, the Scope range is designed and developed with broad compatibility in mind. Scope can read any 2D-coded sample tube currently on the market, not only those supplied by FluidX.

Scope™ USB single tube reader provides instant “plug and play” decoding of all 2D-coded tubes and 1D-barcoded tubes and racks.

Scope™ BT Wireless single tube reader is the very first single-tube reader to connect by Bluetooth to iPad and Android tablet devices. No software required, “plug and play”.

All Scope Readers are supplied with a 5-year warranty.

KEY FEATURES

Compatible with all 2D-Coded Tubes

- Scope single tube readers are compatible with all FluidX tubes as well as any 2D datamatrix coded tubes, including those supplied by Greiner, Matrix, Nunc, LVL and Micronic
- Any tube size can be read. Scope will quickly scan tubes in 24, 48, 96, 240 and 384-well rack formats, as well as larger capacity tubes including glass compound storage tubes, cryo tubes and biological sample tubes

Instant 1D and 2D-Code Reading

- Scope takes less than one second to scan any 2D-coded tube and display the result
- The tube ID is displayed instantly on the computer screen for identification or sample entry, or the application can be run in the background
- The large scanning window and superior decoding technology means the Scope can quickly and easily decode 1D barcodes on racks and tubes

Error-Proof Barcode Reading

- Blue LED target lights are emitted so that positioning the barcode for scanning is error proof, even when the user is wearing gloves
- Scope automatically scans the code (1D or 2D) and confirms a “good read”

Direct Data Export to Any Application

- The FluidX keyboard wedge allows you to enter the results into any application
- Simply place the cursor where the data is to be entered before scanning the tube. The data will instantly be displayed wherever the cursor is positioned
- Scope will insert tube data into any application, such as Excel, Notepad, etc.

Fast Set Up

- No need to calibrate, no drivers or software to install before scanning your first 1D or 2D-code
- Scope USB simply starts working when plugged into a PC or laptop, no external power supply is required due to USB connectivity
- Scope BT Wireless connects to your tablet device by simply scanning the connectivity barcode provided in the operation manual, powered by a rechargeable battery, up to 50,000 tube scans between charges

Mobile Decoding

- Scope BT Wireless allows you to read barcodes anywhere, at any time by using Bluetooth connectivity to provide complete mobility

Flexible Connectivity with Scope Wireless BT

- If multiple devices are used with your tube reader, switching between different Bluetooth-enabled mobile devices can be completed in just a few seconds
- Scope Wireless BT can be connected to an iPad, Android tablet, iPod, iPhone or Android phone or PC/Mac with Bluetooth
- Bluetooth modem option is available to provide instant connection to any PC or laptop without drivers or software. Simply scan the barcode on the modem to establish connection

	Scope™ USB Single Tube Barcode Reader	Scope™ BT Wireless Single Tube Barcode Reader
		
Code formats read	Datamatrix, ISO 16022, square and rectangular format, ECC200, 0 to 20 grid sizes, white on black, black on white, numeric, alpha numeric and 1D linear barcodes	
Sensor type	Sensor CMOS 1.2 Megapixel (1280 x 960) gray scale	
Light source	Red LED with blue targeting LED	
Read time	< 1 second per tube or rack, either 1D or 2D	
Ambient operating temperature	-20°C to 55°C	
Tube compatibility	All tubes in 24, 48, 96, 240 and 384-formats Glass compound storage tubes, cryo tubes, biological sample tubes	
Rack compatibility	Linear barcode types: Codabar, Code 11, Code 32, Code 39, Code 93, Code 128	
Dimensions	45mm (H) x 75mm (W) x 196mm (D)	
Operating humidity	10% to 90% (non condensing)	
Power requirements	USB connection 5vdc (mA): typical = <450mA idle = <80mA, sleep <31mA	

	Scope™ USB Single Tube Barcode Reader	Scope™ BT Wireless Single Tube Barcode Reader
■ User interface	USB 2.0 HID keyboard	
■ Operating system(s)	Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10, Windows CE, Mac O SX and Linux	Wireless Bluetooth HID mode: iOS, Android OS, Windows 8 mobile edition, (Also Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10, Windows CE, Mac OSX and Linux) USB Bluetooth Modem mode: Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10, Windows CE, Mac OSX and Linux

Ordering Information

FLX-20-1003	**FluidX Scope™ USB Single Tube Reader** with large window, hardware decoding with USB keyboard wedge. Suitable for all 2D-coded and 1D linear barcoded tubes
20-1025-A	**FluidX Scope™ BT Wireless Single Sample Tube Reader** Bluetooth portable single tube wireless reader with large window for all 2D datamatrix labeled tubes and 1D linear barcodes, hardware decoding with Bluetooth
20-1025-C	**20-1025-A supplied with additional Bluetooth USB Modem for use with any PC**

Impression™ Whole Rack 2D & 1D Barcode Scanners

Integration friendly

Designed and developed entirely with the end user in mind, the FluidX Impression range offers fast identification of SBS-format racked, 2D-coded sample storage tubes, without the need to remove tubes from racks.

Impression systems offer the very best optical quality barcode scanning for 2D and 1D barcoded tubes within a rapid whole-rack scanner format with a small footprint.

- Compact, bench-top whole rack scanner for 24, 48, 96, 240 and 384 SBS-format racks of 2D datamatrix code labeled sample storage tubes
- Small-footprint scanner-based solution for rapid reading and integration
- Integrated mirror for 1D-Barcode reading
- Impression is based on scanning technology and forms the backbone of many sample storage and tracking systems, for applications including biobanks, compound libraries and other high-throughput storage environments
- Optional Opticon Linear Barcode Reader: ideal for decoding more challenging linear barcodes, simplifying robotic integration
- Given the variety of 2D-coded tubes on the market, Impression is designed and developed with broad compatibility in mind. Impression can read any 2D-coded sample tube currently on the market, not only those supplied by FluidX
- Impression is supplied with a 5-year warranty

KEY FEATURES

	Impression™ Whole Rack Scanner
	
Code formats read	Datamatrix, ISO 16022, square and rectangular format, ECC200, 0 to 20 grid sizes, white on black, black on white, numeric, alpha numeric, Option: 1D linear barcodes
Sensor type	Colour Contact Image Sensor (CMOS CIS)
Light source	R, G, B LED (variable light source)
Read time	14 seconds total scan and decode time for rack of 96 tubes
Ambient operating temperature	5°C to 40°C
Tube compatibility	Most tubes in 24, 48, 96, 240 and 384 format SBS racks. May not be compatible with tubes that sit high within the rack
Dimensions	51mm (H) x 154mm (W) x 256mm (D)

	Impression™ Whole Rack Scanner
Operating humidity	10% to 90% (non condensing)
Power requirements	AC 100 to 240V +/-10%, <8W
User interface	FluidX GUI, including Windows TCP/IP, ODBC
Operating system(s)	Windows XP, Windows 7, Windows 8, Windows 10

"No Tube" Feature Eliminates Errors

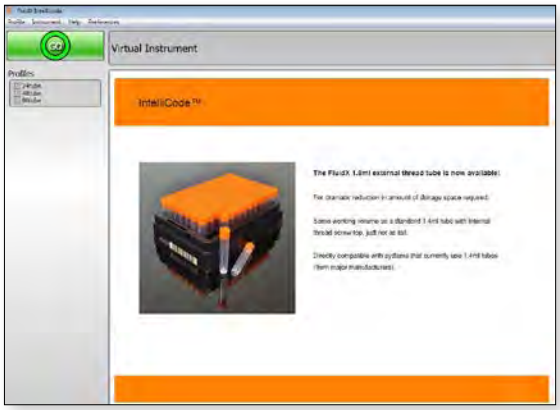
- Impression whole rack scanners are able to discriminate between a tube with a code that cannot be decoded, and an empty rack position
- The scanner will not attempt to decode empty tube positions, so data files are kept clean
- Decoding speed is optimized as wasted data entry is eliminated

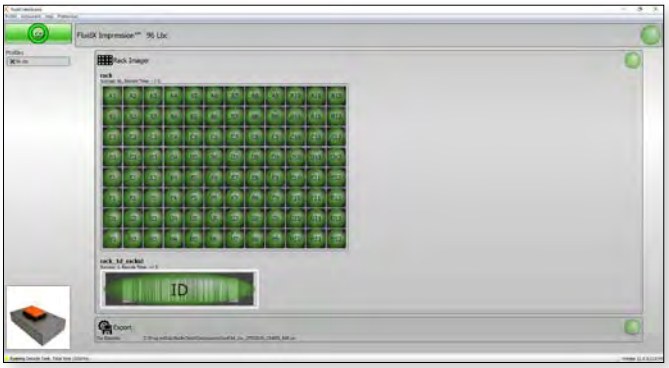
Active Cryoprotection

An internal system that reduces the impact of condensation, increasing the number of consecutive -20°C racks that can be read whilst having minimal impact on the sample temperature.

Ordering Information

20-2102-A	**FluidX Impression™ Whole Rack Scanner (MKII)** Small size for integration with "Mirror" Linear Barcode Reader and Single Tube Reading Position. Suitable for racks of (24 / 48 / 96 / 240 / 384) 2D-coded tubes (deep focus scanner, suitable for all types of 2D-coded racks). Not available for sale in Japan
20-2102-C	**FluidX Impression™ Whole Rack Scanner (MKII) with Cryoprotection** Small size for integration with "Mirror" Linear Barcode Reader, Single Tube Reading Position and Active Cryoprotection frost reduction system. Suitable for racks of (24 / 48 / 96 / 240 / 384) 2D-coded tubes (deep focus scanner, suitable for all types of 2D-coded racks). Not available for sale in Japan
20-2102-D	**Impression Whole Rack Scanner (MKII) with Cryoprotection and Opticon 1D Barcode Reader** Small Form Factor Whole rack reader for racks of (24 / 48 / 96 / 240 / 384) 2D labelled tubes. Small-footprint scanner based solution for rapid reading and integration. Deep focus scanner, suitable for all types of 2D barcoded racks. With Opticon USB Linear Barcode Reader, Single Tube Reading Position and Integrated Cryoprotection frost reduction system. Available in all regions.





Perception™ HD Range of Whole Rack 2D & 1D Barcode Readers

Integration friendly

Perception HD

Perception HD AcoustiX

Perception HD LF

The Perception HD range of compact whole rack 2D & 1D barcode readers offers fast identification of racked, 2D-barcoded sample storage tubes, without the need to remove tubes from racks.

Using advanced camera-based imaging systems, Perception whole rack readers are ideal for more challenging applications and environments, such as integrating into robotic systems, cold environments or when speed and size of reader are important.

Perception readers form the backbone of many sample storage and tracking systems, for applications including biobanks, compound libraries and other high-throughput storage environments.

An integrated multi-position Linear Barcode Reader is available for the simultaneous reading of rack linear 1D barcodes.

KEY FEATURES OF THE PERCEPTION RANGE

Flexible Applications through Advanced Design

- Using advanced camera-based systems, FluidX Perception whole rack readers are ideal for more challenging applications, such as integration into robotic systems, cold store and low temperature environments and where speed and small footprint are important

Automation and Robotics Friendly

- All FluidX Perception rack readers have a gripper cutout section around the scan window to enable easy robotic handling of shallow racks
- The Perception Rapid SBS reader has a small footprint, barely larger than the SBS rack itself, aiding greater compatibility with automated systems including liquid handling

Easy System Integration with IntelliCode™ Software

- Perception HD Readers systems used in conjunction with FluidX IntelliCode™ software offer the most advanced data export options available
- Easy integration with database sample tracking and LIMS systems
- Compatible with MS Word templates, with powerful design and formatting capabilities to create customized reports

Additional Sample Security

- FluidX storage tube racks can be supplied with the option of carrying a unique 2D-code identifier
- All FluidX Perception HD whole rack readers are capable of reading both tube and rack 2D-codes simultaneously, to provide automatic rack orientation and greater sample security

Linear 1D Barcode Reader (optional)

- Integrated multi-position 1D linear barcode reader helps to simplify robotic integration, is ideal for decoding more challenging (non-FluidX) linear barcodes and provides rack orientation

Stored Rack Profiles

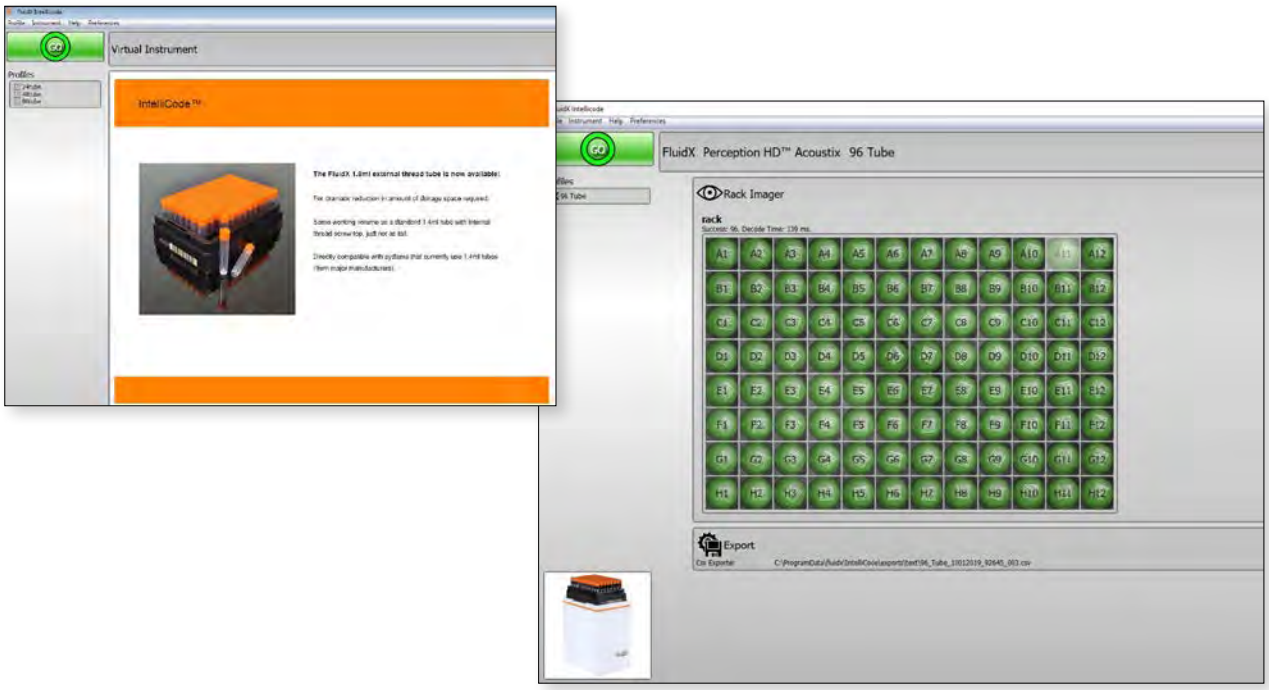
- Custom rack profiles can be set up for the regular use of routine, custom rack profiles, such as empty rows or control tubes in specific positions, saving set-up time

Seamless Changing of Rack Format

- Using either built-in, or customized rack profiles, IntelliCode software will automatically determine which rack type is being read
- Software will select the appropriate rack profile for decoding and exporting tube data
- Switch between 24, 48, 96, 240 and 384-format racks without making any changes to Perception readers or IntelliCode software

“No Tube” Feature Eliminates Errors

- Perception HD whole rack readers are able to discriminate between a tube with a code that cannot be decoded, and an empty rack position
- The reader will not attempt to decode empty tube positions, so data files are kept clean
- Reading speed is optimized as wasted data entry is eliminated



Perception HD Barcode Reader

Integration friendly

Providing even greater clarity, the FluidX Perception HD range of compact whole rack 2D & 1D barcode readers offers fast identification of racked, 2D-coded sample storage tubes, without the need to remove tubes from racks.

Using new high definition, camera based imaging systems, Perception whole rack readers are ideal for more challenging applications and environments, such as integrating into robotic systems, cold environments or when speed and size of reader are important.

Features & Benefits:

- Compatibility - Use with any 2D-coded tubes in SBS format rack
- Footprint - The smallest range of rack readers available
- Speed - decode a full rack of tubes in less than 1 second
- High Definition - Reliably decode a variety of tubes
- Avoid Waste - "No tube" feature ensures wasted data entries are avoided
- Integration - Automation friendly design
- Linear Barcode Reading - Available with integrated multi-position linear barcode reader

Available in 3 models:

- Perception HD
- Perception HD AcoustiX
- Perception HD LF

	Perception HD
	
Part Number	20-4018
Dimension (W x L x H)	97mm x137mm x 160mm
Weight	1000g
Camera Resolution	18 MegaPixel
Power supply	Powered by USB
Communication	USB 3.1
Linear Barcode Reader	Optional (70-4012) – Plug directly into PC
Decodable Formats	2D Data Matrix®, QR Codes, ISO 16022, Square and Rectangular Format, ECC 200, 0 - 20 grid sizes, White on Black and Black on White, Numeric and Alphanumeric
Tube Formats	Almost all tubes in SBS format rack. Either 24, 48, 96, 240 or 384-formats.
Total Read TIme	<1 second
Operating Systems	Windows 7, Windows 8, Windows 10

Ordering Information

20-4018	**FluidX Perception™** HD High Definition Camera, Whole rack reader for racks of 2D labelled tubes; small-footprint single camera based solution for very rapid reading and ideal for integration, USB 3.1 cable
70-4012	**Multiple Position Linear Barcode Adaptor,** including USB Opticon Barcode Reader for Perception HD (20-4018) and Perception HD AcoustiX (20-4013)

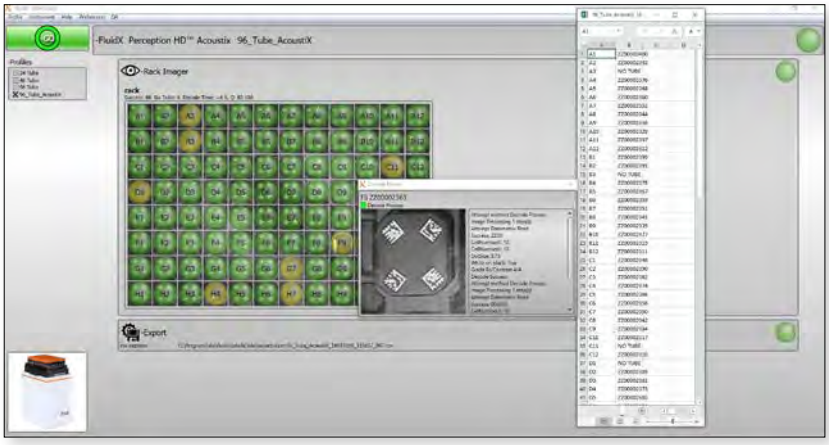
Perception HD AcoustiX

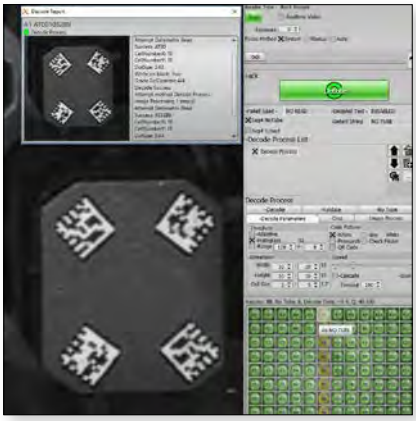
Integration friendly

	Perception HD AcoustiX
	
Part Number	20-4013
Dimension (W x L x H)	97mm x137mm x 160mm
Weight	1000g
Camera Resolution	18 MegaPixel
Power supply	Powered by USB
Communication	USB 3.1
Linear Barcode Reader	Optional (70-4012) – Plug directly into PC
Decodable Formats	2D Data Matrix®, AcoustiX 2D4 Codes, QR Codes, ISO 16022, Square and Rectangular Format, ECC 200, 0 - 20 grid sizes, White on Black and Black on White, Numeric and Alphanumeric
Tube Formats	Almost all tubes in SBS format rack. Either 24, 48, 96, 240 or 384-formats.
Total Read Time	<1 second
Operating Systems	Windows 7, Windows 8, Windows 10

Ordering Information

20-4013	**FluidX Perception™ HD AcoustiX** High Definition Camera, Whole rack reader for racks of 2D labelled tubes, including Labcyte Echo® Qualified AcoustiX Tube; small-footprint single camera based solution for very rapid reading and ideal for integration, USB 3.1 cable
70-4012	**Multiple Position Linear Barcode Adaptor**, including USB Opticon Barcode Reader for Perception HD (20-4018) and Perception HD AcoustiX (20-4013)





Perception HD LF Reader

Integration friendly

	Perception HD LF
	
Part Number	20-4016
Dimension (W x L x H)	147mm x147mm x 224mm
Weight	1350g
Camera Resolution	18 MegaPixel
Power supply	Powered by USB
Communication	USB 3.1
Linear Barcode Reader	Optional (70-4013) – Plug directly into PC
Decodable Formats	2D Data Matrix®, QR Codes, ISO 16022, Square and Rectangular Format, ECC 200, 0 - 20 grid sizes, White on Black and Black on White, Numeric and Alphanumeric
Tube Formats	Almost all tubes in SBS format rack and Freeze Boxes. Either 9x9, 10x10, 13x13, 14x14, 24, 48, 96, 240 or 384-formats.
Total Read Time	<1 second
Operating Systems	Windows 7, Windows 8, Windows 10

Ordering Information

20-4016	**Perception™ HD LF** Large Format Cryo Rack Reader, Whole rack reader for 14x14, 10x10, 9x9, 7x7 5x5 Square Cryo Racks of 2D labelled tubes and 24, 48, 96, 240, 384 SBS-format racks; Single camera based solution for very rapid reading, with USB 3.1 cable
70-4013	**Multiple Position Linear Barcode Adaptor**, including USB Opticon Barcode Reader for Perception HD LF (20-4016)

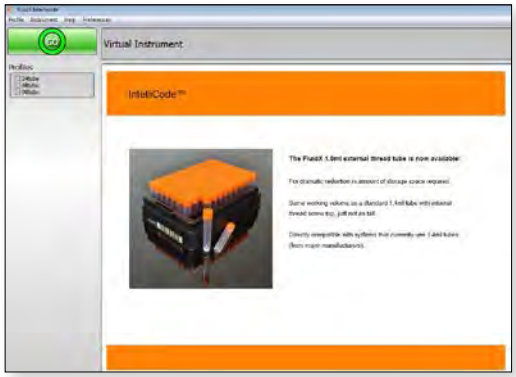
FluidX IntelliCode™ Decoding Software

Integration friendly

FluidX IntelliCode is intuitive software, designed with the input of users, for decoding1D and 2D-coded sample storage tubes and racks.

IntelliCode rapidly and simultaneously decodes FluidX sample storage tubes as well as any 2D data matrix coded tubes, including those supplied by Greiner, Matrix, Nunc and Micronic.

IntelliCode automatically recognizes rack types, without requiring additional setup, and provides a secure audit trail of all decoding performed creating text files and customized reports in MS Word and Adobe PDF, as well as secure data export to an SQL database.



KEY FEATURES

Easy Set-up Saves Time

- IntelliCode is pre-configured for use with 24, 48, 96, 240 and 384-format SBS racks
- Simply place your rack on the sample storage tube barcode reader and IntelliCode will do the work
- Simple, automatic profile creation for any readable 2D-coded tubes at the push of a button
- Determines rack profile (24, 48, 96, 240 and 384), automatically decodes and saves your data
- IntelliCode uses a license key to activate the software, rather than a dongle, no wasted set-up time and USB port

Ultra-Fast Decoding

- IntelliCode takes only 3.1milliseconds to decode a sample storage tube
- Dual Decoding Engine, so both FluidX proprietary decoding and industry-standard decoding engines work simultaneously for additional power and speed
- With true Multi-Core optimization, IntelliCode is designed for use with modern PCs. This parallel processing enables a rack of 96 2D-coded tubes to be imaged and decoded in less than one second

Unique and Secure Audit Trail

- IntelliCode keeps a secure audit trail of all decoding performed
- To recreate any export files, change file format or make a backup copy, simply set the data range required and IntelliCode will generate the export file as required

Simple File Export to LIMS or Database

- The built-in generator will customize the export file so that it is compatible with any LIMS or database system (txt or CSV files)
- Alternatively, use the auto-generate function to create a file in standard export format
- Use the built-in database connector for secure transfer of scanned tube data to your corporate SQL database

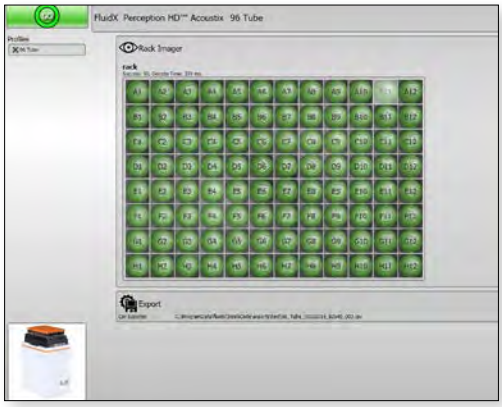
Creative Report Generation

- Design your own, customized MS Word template with images, logos and format
- IntelliCode can automatically use this template to create professional and elegant data reports for your internal and external customers

Remote Use

- IntelliCode can be remotely controlled using a console or TCIP.

Advanced Rack ID Functionality



- IntelliCode can perform both 2D and 1D rack decoding when used in conjunction with a FluidX Impression whole rack scanner with Mirror Linear Barcode Reader
- A manual input option is available if the rack scanner is unable to read a rack barcode, or if an independent linear barcode reader is to be used

“No Tube” Feature

- IntelliCode software is able to discriminate between a tube with a code that cannot be decoded and a rack position containing no tube, and will not attempt to decode empty tube positions
- Data files are kept clean as wasted data entry is avoided, resulting in a faster rack reader and better data

Share Profiles and Data Files

- User profiles and export files can be shared between users on a single PC, and across a network, reducing set-up time and facilitating work streams

Ordering Information

20-3503	**Intellicode License** - Additional single license for Intellicode software

FluidX Capping and Sealing Systems

FluidX Capping and Sealing Systems

FluidX provides dependable manual, semi- and fully automated capping and decapping solutions. The range incorporates products from single-tube manual decappers, through column cappers / decappers to fully automated and whole-rack solutions. All products are the result of over 15 years of continuous development and innovation, bringing the best solutions, with the most useful features, to the sample storage market.

Aperio™ Semi-Automated Systems for Capping & De-capping Screw Capped Tubes

The Aperio range of semi-automated systems are compact, bench top units designed for efficient tube capping in labs with medium throughput. Offering the consistency of an automated de-capping system, but at much lower cost, Aperio can cap a single column of tubes, from a cap carrier, in under 10 seconds and will cap, or de-cap, a complete rack of 96 tubes in under 2 minutes.

KEY FEATURES

Flexible Product Options to Suit a Range of Tube Types

Aperio 4

Aperio 6

Aperio 8

- **Aperio 4 :** 4-channel capping and de-capping system compatible with screw-capped tubes in 24-format SBS racks
- **Aperio 6 :** 6-channel capping and de-capping system compatible with screw-capped tubes in 48-format SBS racks
- **Aperio 8 :** 8-channel capping and de-capping system compatible with screw-capped tubes in 96-format SBS racks

Your choice of Aperio model can be configured for use with one of the following tube types:

- FluidX internal and external thread screw-capped tubes
- Thermo-Matrix internal thread screw-capped tubes
- Micronic internal and external thread screw-capped tubes
- Thermo-Nunc Bank-IT tubes
- LVL external thread screw capped tubes
- Please contact your local representative for the latest list of supported tubes

Fast and Consistent Sealing Performance

- Aperio has a set-down position that allows the simple insertion of screw caps using a FluidX Cap Carrier
- Caps a single tube in under 10 seconds
- Caps or de-caps a complete rack of 96 tubes in less than 2 minutes
- Individually spring-loaded cap drivers mean easy and consistent capping
- All caps tightened to the same torque, delivering a secure seal and peace of mind
- Designed for ease of use by both left and right handed people

Space Saving Design

With a small footprint, Aperio fits easily onto the bench top and is easy to install in a laminar flow cabinet.

Weight: 6 kg, Dimensions: 310mm (w) x 345mm (l) x 345mm (h)

Ordering Information

46-6501	**FluidX Aperio 8-Channel Semi-Automatic Screw Cap Tube Rack Decapper/Capper** for FluidX 96-format Internal Thread tubes and racks
46-6502	**FluidX Aperio 8-Channel Semi-Automatic Screw Cap Tube Rack Decapper/Capper** for FluidX 96-format External Thread tubes and racks
46-6511	**FluidX Aperio 6-Channel Semi-Automatic Screw Cap Tube Rack Decapper/Capper** for FluidX 48-format External Thread Jacket Cryo tubes and racks
46-6512	**FluidX Aperio 6-Channel Semi-Automatic Screw Cap Tube Rack Decapper/Capper** for FluidX 48-format Internal Thread Jacket and Non-Jacket Cryo tubes and racks
46-6513	**FluidX Aperio 6-Channel Semi-Automatic Screw Cap Tube Rack Capper/Decapper** for Nunc 48-format Internal Thread Cryo tubes in 65-7541 racks
46-6521	**FluidX Aperio 4-Channel Semi-Automatic Screw Cap Tube Rack Capper/Decapper** for FluidX 24-format External Thread Jacket Cryo tubes and racks
46-6601	**FluidX Aperio 8-Channel Semi-Automatic Screw Cap Tube Rack Capper/Decapper** for Matrix/Thermo 96-format Internal Thread tubes and racks
46-6602	**FluidX Aperio 8-Channel Semi-Automatic Screw Cap Tube Rack Capper/Decapper** for Micronic 96-format Internal Thread tubes and racks
46-6603	**FluidX Aperio 8-Channel Semi-Automatic Screw Cap Tube Rack Capper/Decapper** for Nunc Bank-It 96-format Internal Thread tubes and racks
46-6604	**FluidX Aperio 8-Channel Semi-Automatic Screw Cap Tube Rack Decapper/Capper** for LVL Technologies 96-format External Thread tubes and racks
46-6605	**FluidX Aperio 6-Channel Semi-Automatic Screw Cap Tube Rack Decapper/Capper** for LVL Technologies 48-format External Thread tubes and racks
46-6606	**FluidX Aperio 8-Channel Semi-Automatic Screw Cap Tube Rack Decapper/Capper** for Micronic 96-format External Thread tubes and racks

IntelliXcap™

Integration friendly

IntelliXcap is the next-generation capper and de-capper, engineered for increased throughput, ease of use and high system reliability, making the system ideal for any laboratory managing compound libraries or biological sample stores.

Capper & De-capper for 96, 48 and 24 format Screw Capped Tubes

KEY FEATURES

Advanced Automation Means Increased Throughput

- IntelliXcap is extremely fast and works with multiple sample storage tube types from a range of tube manufacturers in 24, 48 and 96 format
- The only 96-format full rack capper and de-capper capable of de-capping a complete rack of 96 tubes in as little as 20 seconds
- Automation and high speed reduces sample handling time, increasing sample throughput workflow
- Ideal for medium to high-throughput laboratories managing compound libraries, biobanks or other biological samples

Compact, Modular Design Means Ultimate Flexibility

- IntelliXcap features the unique, fully automated, interchangeable IntelliXcartridge cap driver system
- IntelliXcartridge allows format change between different tube types in less than 2 minutes
- Simply by fitting the relevant IntelliXcartridge, IntelliXcap is compatible with all FluidX sample storage tubes, as well as sample storage tubes from Thermo Matrix, Thermo Nunc, LVL, Micronic
- IntelliXcartridge is available for both internal and external thread screw-cap tubes
- No need for specialist intervention to change cartridge drivers
- Control is via a quick installation, easy-to-use touch panel

Easy to Use, Easy to Integrate

- Quick installation, easy-to-use touch panels bring instant control
- Wide operating temperature range of 5°C to 40°C
- Electric torque control means less persistent wear on cap drivers
- Easily integrated, sample rack stage extension facilitates fully automated workflow integration

Weights and Dimensions

	Weight (kg)	Height (mm)	Width (mm)	Depth (mm)
IntelliXcap 96	22	320	256	468
IntelliXcap 48	28	386.2	256	464.4
IntelliXcap 24	27	386.2	256	464.4

Ordering Information

46-8012	**FluidX IntelliXcap 96 96-Format Screw Cap Tube Rack Decapper/Capper** with automatic glide rail for integration, includes 1 cartridge of choice, please quote tube type when ordering. Suitable for all FluidX tubes and almost all other brands with IntelliXcartridges
46-8011	**FluidX IntelliXcap 48 48-Format Screw Top Tube Rack Decapper/Capper** With automatic glide rail for integration, includes 1 cartridge of choice, please quote tube type when ordering. Suitable for all FluidX tubes and almost all other brands with IntelliXcartridges
46-8010	**FluidX IntelliXcap 24 24-Format Screw Top Tube Rack Decapper/Capper** With automatic glide rail for integration, includes 1 cartridge of choice, please quote tube type when ordering. Suitable for all FluidX tubes and almost all other brands with IntelliXcartridges

Ordering Information - IntelliXCap Cartridges: 96 format

48-8013-01	**FluidX IntelliXCartridge 96-format Cap Driver Cartridge**, with 96 individual cap drivers, 1 cartridge per case. Suitable for FluidX Internal Co-molded Thread
48-8013-02	**FluidX IntelliXCartridge 96-format Cap Driver Cartridge**, with 96 individual cap drivers, 1 cartridge per case. Suitable for FluidX External Thread
48-8013-03	**FluidX IntelliXCartridge 96-format Cap Driver Cartridge**, with 96 individual cap drivers, 1 cartridge per case. Suitable for FluidX Internal O-Ring Thread
48-8013-04	**FluidX IntelliXCartridge 96-format Cap Driver Cartridge**, with 96 individual cap drivers, 1 cartridge per case. Suitable for FluidX Acoustic Tube Thread
48-8013-05	**FluidX IntelliXCartridge 96-format Cap Driver Cartridge**, with 96 individual cap drivers, 1 cartridge per case. Suitable for Matrix 200ul Low Profile Internal Thread
48-8013-06	**FluidX IntelliXCartridge 96-format Cap Driver Cartridge**, with 96 individual cap drivers, 1 cartridge per case. Suitable for Thermo-Nunc Cryobank Internal Thread
48-8013-07	**FluidX IntelliXCartridge 96-format Cap Driver Cartridge**, with 96 individual cap drivers, 1 cartridge per case. Suitable for Micronic Internal Thread
48-8013-09	**FluidX IntelliXCartridge 96-format Cap Driver Cartridge**, with 96 individual cap drivers, 1 cartridge per case. Suitable for LVL Technologies Internal Thread
48-8013-11	**FluidX IntelliXCartridge 96-format Cap Driver Cartridge**, with 96 individual cap drivers, 1 cartridge per case. Suitable for Thermo/Matrix Internal Thread
48-8013-12	**FluidX IntelliXCartridge 96-format Cap Driver Cartridge**, with 96 individual cap drivers, 1 cartridge per case. Suitable for FluidX 0.2ml Tube External Thread

Ordering Information - IntelliXCap Cartridges: 48 format

48-8015-01	**FluidX IntelliXCartridge 48-format Cap Driver Cartridge**, with 48 individual cap drivers, 1 cartridge per case. Suitable for FluidX 1.5ml, 1.9ml, 3.8ml Next-Gen Jacket and 2.0ml Jacket Automation-friendly External Thread
48-8015-03	**FluidX IntelliXCartridge 48-format Cap Driver Cartridge**, with 48 individual cap drivers, 1 cartridge per case. Suitable for FluidX 1.8ml Non-Jacket and Greiner 2.0 ml External Thread

Ordering Information - IntelliXCap Cartridges: 24 format

48-8017-01	**FluidX IntelliXCartridge 24-format Cap Driver Cartridge**, with 24 individual cap drivers, 1 cartridge per case. Suitable for FluidX 5ml Jacket and 7.6ml Next-Gen Jacket Automation-friendly External Thread
48-8017-03	**FluidX IntelliXCartridge 24-format Cap Driver Cartridge**, with 24 individual cap drivers, 1 cartridge per case. Suitable for Micronic 6ml Internal Thread

X-CAP

X-CAP is a semi-automatic system for TPE septum cap sealing of sample tubes and micro plates in 96-well SBS formats.

Offering secure storage tube sealing, X-CAP helps preserve sample integrity and audit trails in biobanks, compound libraries and other high-throughput storage applications.

Semi-Automatic Septum Cap Sealer for Sample Storage Tubes

KEY FEATURES

Flexible Sealing Performance, Broad Compatibility

- X-CAP is suitable for use with all 96-format FluidX sample storage tubes with TPE Septum Caps, as well as Micronic tubes with TPE Capmats, Matrix Technologies tubes with Sepraseals and Abgene Sealing Mats
- Depth of capping action is adjustable with the use of spacer plates, which ensures effective and efficient capping of all tube types
- X-CAP can be used to seal either full, or partially-full, racks

Fast and Easy to Use

- Cycle time for capping is 20-30 seconds, depending on tube type
- Simply place a rack in the X-CAP drawer, with a TPE septum cap mat fitted loosely on top. Push the drawer shut, and the capping action will start automatically. Once all caps have been inserted, the drawer will open automatically and the sealed rack of tubes can be removed

Additional TubeLock Functionality

- Using X-CAP in conjunction with FluidX racks featuring TubeLock enables automatic locking and unlocking of tubes within the rack
- FluidX racks with TubeLock are dual position, allowing tubes to be locked in place for added sample security during handling
- Individual sample tubes can be pushed downwards to lock and pulled upwards to unlock in the rack
- For a faster approach, X-CAP, with an adapter set, can be used to lock, or unlock, all tubes in a 96-format rack simultaneously

Ordering Information

46-2004-115V	**FluidX X-Cap Semi-Automatic Septum Capper 115V** Cap-mat Sealer, includes adapter set. Suitable for 96-format FluidX tubes with TPE Caps
46-2004-230V	**FluidX X-Cap Semi-Automatic Septum Capper 230V** Cap-mat Sealer, includes adapter set. Suitable for 96-format FluidX tubes with TPE Caps

XDC-96 Automatic Whole Rack Septum Capping & De-Capping System

Integration friendly

XDC-96 is a compact, standalone, high-speed whole rack tube de-capper and capper that automatically removes, recaps or disposes of septum caps from a full 96-format SBS rack of sample storage tubes.

XDC-96 can also be integrated into automated sample storage and handling environments.

Using the XDC-96 systems for secure storage tube sealing, and eliminating the need for manual intervention, preserves sample integrity and audit trail in biobank, compound library and other high-throughput storage applications.

XDC-96

KEY FEATURES

Broad Compatibility

- XDC-96 is suitable for use with most 96-format TPE septum sealed caps
- Compatible with:
  - FluidX 96-format tubes with septum caps (0.3ml, 0.48ml, 0.7ml, 0.9ml)
  - Micronic Microtubes with Capcluster caps (0.65ml, 1.4ml)
  - Matrix TrakMates with SepraSeal caps (0.5ml, 0.75ml, 1.4ml)
  - Abgene Cypher with caps (0.65ml, 1.2ml)
  - Contact FluidX for information on other tube types
- Type of tube to be used with XDC-96 should be specified at time of ordering; XDC-96 is recommended to be used with natural colored TPE septum caps.

Improved Productivity

- XDC-96 de-capping function eliminates the need to manually remove septum caps, dramatically improving productivity
- Septum piercing is no longer required, meaning a wider range of liquid handling systems can be considered for use on samples
- XDC-96 will dispose of the septum caps, or recap the same caps into the same tubes, manual recapping after sampling from tubes is no longer required

Fast and Easy to Use

- Cycle time for de-capping and recapping is 15-30 seconds, depending on tube type
- XDC-96 is a standalone system with a simple to operate LCD touch screen, allowing set up, calibration and settings changes without PC connection
- XDC-96 can also be used in standalone mode, or can be integrated into automated systems easily by using the RS232 interface
- Windows-compatible maintenance and calibration software package provided with each unit

Additional Automation Workflow Features

Purge Module: XDC-96 is fitted with a purge module that allows an inert gas of choice to be layered over the samples immediately after de-capping, and immediately before recapping. This layering technique protects sensitive samples from the action of humidity and oxygen while uncapped. Purging immediately prior to recapping ensures that the sample is stored in a dry, inert atmosphere.

Air Blade: The air blade feature prevents the waste chute from becoming blocked when caps are sent to disposal. Useful especially when caps might be sticky after DMSO use. An air cushion is created as the caps are removed from the harpoons, propelling the unwanted caps through the waste chute at speed.

	XDC-96
Dimensions	215mm W x 350mm H x 680mm D (with shuttle) 480mm D (without)
Weight	30kg
Power Requirements	AC 115V-230V +/-10%, Power <55W
User Interface	LCD touch screen for manual operation
Cable Interface	Serial RS232

Ordering Information

46-5003	**FluidX XDC-96 Automatic 96-format Tube Rack Decapper/Capper** Compatible with various FluidX, Matrix or Micronic tubes and individual caps (some restrictions apply to smaller volume tubes). For either integration or benchtop use only. Please specify tube range when ordering i.e. FluidX, Abgene, Matrix or Micronic

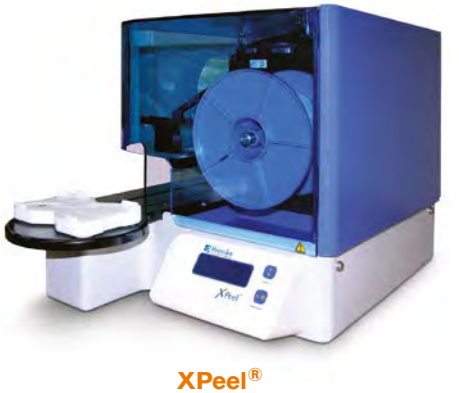
XPeel® Automated Plate Seal Remover

Integration friendly

XPeel automatically removes seals from a wide range of microplate types with the single touch of a button.

A robust and elegantly-simple automated system, XPeel eliminates the need for repetitive, manual removal of plate seals and enables the adoption of the gold-standard operating model (sealed plates, no lids).

The patented XTape® removal medium eliminates the need for mechanical removal mechanisms which are often prone to failure. XPeel is highly reliable and can be used manually or integrated into automated systems with external robotics.



XPeel®

KEY FEATURES

Compatible with Virtually All Plate Types and Seal Types

- XPeel can be used with a wide variety of microplates, including full-skirted PCR plates, low-base microplates and deep-well (up to 2ml) plates
- XPeel is compatible with a variety of full-plate seals, including heat and pressure applied seals
- Uses proprietary XTape to de-seal microplates, up to 400 seal removals per XTape roll

Preserves Sample Integrity

- Eliminates cross contamination common with manual seal removal techniques
- Supports Quality Control measures requiring samples to be sealed until their moment of use
- XPeel holds the plate down whilst the seal is peeled away from the plate, eliminating another contamination issue
- Operating mode minimizes plate or seal damage
- Integrated seal removal verification feature reduces plate handling errors

Easy to Use, Easy to Integrate

- Can be used as a standalone system, or integrated into automated and robotic workflows via Serial RS232 remote interface
- One-touch, push-button operation to de-seal plates makes XPeel an ideal standalone device for busy laboratories
- Capacity to remove up to 200 plate seals per hour
- Robust, time-proven device with hundreds of units placed globally in a range of manual and automated environments

	XPeel® Automated Plate Seal Removal
Seal Removal Capacity	Up to 400 per XTape® Roll
Seal Verification Sensor	Reflective with Sensitivity Adjustment
Communication	Serial RS232
Motion Parameters	XTape Adhere Time, De-seal Speed, Plate Output Orientation, Begin Peel Location
General Parameters	Auto XTape Advance, Plate Verification, Menu Language
Weight	35kg (76lbs)
Power Requirements	115VAC, 4A, 60Hz 230VAC, 2A, 50Hz
Throughput	Up to 200 Plate Seal Removals per Hour

Ordering Information

Please contact us for further information.

A4S Automatic Roll Heat Sealer

Integration friendly

A perfect solution for automated heat sealing of microplates, PCR plates, assay plates and storage plates used in medium to high-throughput or full automation applications. Unrivalled sealing performance and consistency with as many as 5,000 perfect seals without user intervention.

A4S®

KEY FEATURES

Simple Installation

- No need for compressed air - Installation is fast and flexible
- 2 positions for different roll sizes - Increased flexibility
- Optional roll cover - Seal protection for sensitive applications

Easy Handling

- Colour touch screen with intuitive user interface - Ease of use
- Unlimited password protected protocols - 3 security levels save personalised and SOP set temperatures and times
- Rapid heating - Fast start up time, block uniformity is maintained to ± 1 °C
- Variable time/temperature controls - Adjustment of time and temperature settings enables the perfect seal to be established for any sealer friendly, high-quality plate type, e.g. all 4titude® plates
- Up to 5,000 seals without manual intervention - True walk-away-system

Reproducible Sealing

- Reproducible sealing - Fixed pressure and accurate time and temperature controls ensure consistent sealing
- High sealing pressure - Improved seal uniformity on the widest range of plates
- Sealing cycle time of less than 15 sec - Time saving

High Flexibility

- Compatible with a wide range of plate types, from racked tubes to 1536 well PCR plates - Highest flexibility
- Flexibility of seal material choice - 4titude® offers a wide range of sealing materials, with a variety of properties
- Compatible with gas permeable heat seals - No instrument modification necessary for maximum convenience

Economic Efficiency

- Competitive pricing - Save money without compromises
- Auto standby mode - Saves energy and prolongs component life
- 2 year warranty on parts and labour
- Extended warranty and service contracts available - For peace of mind

Plug and Play Robotic Integration

- Compliant with SiLA standards for rapid integration of automated systems (www.sila-standard.org). This means “plug and play” connectivity with other instruments, such as readers, robotic arms and liquid handlers, to give a custom automated system without the need to write expensive custom drivers. The a4S heat sealer is extremely versatile leaving you the freedom to expand and configure your systems such as adding robotic plate handling.
- Full communication protocol available - Operate the instrument and record sealing conditions for each seal using the RS232 communication port

	A4S Automatic Roll Heat Sealer
Dimensions (W x L x H)	230 x 507 x 276 mm
Sealing Temperature Range	100-195 °C
Sealing Time Range	0.1-10 sec
Weight (without roll)	27 kg
Power Supply	V in: AC 100-240 V V out: DC 24 V 320 W
Power Consumption	700 W (max)
Working Temperature Range	10-30 °C
Operating Humidity (RH)	0-85%
Connection	RS-232 serial port, USB port

Rolls with a width of between 75-85 mm can be loaded in either of two roll positions, depending on roll length and available space, enabling the entire instrument to fit under the gantry of most liquid handling robots.

The width and length of the applied seals are set to precisely cover an SBS footprint plate without interfering with plate stacking. The seal position can be adjusted to give an overhang at one end of the plate to facilitate ease of seal removal.

Ordering Information

Please contact us for further information.

FluidX Sample Tube Management Systems

XTP-1 Manual Sample Tube Picker

A manual device, with one-handed operation, the XTP-1 incorporates an eject button enabling tube pick and place operations whilst avoiding contact between the hand and tube.

The XTP-1 minimizes the risk of heat transfer to a frozen sample, as well as minimizing the risk of possible cross contamination.

Simple to use, even when wearing laboratory or cryogenic-handling gloves, the tube picker is available in either 96-rack or 48-rack format.

XTP-1 Manual Sample Tube Picker

KEY FEATURES

- Single-handed operation, soft grip handle
- Easy to use whilst wearing gloves
- All components that potentially come into contact with samples are made from temperature-resistant and chemically-resistant plastics
- Tubes can be selected from any position in the rack
- Removes the need for manual contact with tubes reducing the risk of heat transfer to frozen samples and cross contamination
- Ideal for use with FluidX sample storage tubes and compatible with sample storage tubes from most other manufacturers

Specification

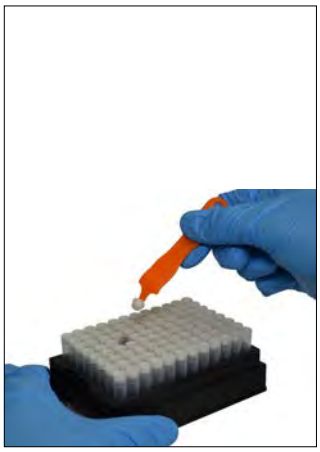
96-format XTP-1	length 150mm	diameter 17mm	weight 20g
48-format XTP-1	length 165mm	diameter 17mm	weight 23g

Ordering Information

10-5010	**FluidX XTP-1 Manual Single Tube Picker**, 96-format, 1 picker per case Suitable for FluidX and most other manufacturers 96-format tubes
10-5020	**FluidX XTP-1 Manual Single Tube Picker**, 48-format, 1 picker per case Suitable for FluidX and most other manufacturers 48-format Cryo Tubes
65-54000	**FluidX Manual Decapper-1**, for removal of 1 TPE cap at a time, 1 decapper per case
65-54001	**FluidX Manual Decapper-8**, for removal of 8 TPE caps at a time, 1 decapper per case
65-54004	**FluidX Manual Screw Cap Remover**, 1 remover per case

Screw Caps

TPE Septum Caps



IntelliXmark™

Sample Tube Labeling System

Tube labels or stickers are no longer required for sample identification - IntelliXmark™ is designed to print text, 1D linear barcodes, 2D data matrix codes and / or graphics directly onto polypropylene sample storage and general-purpose laboratory tubes. Using patent-pending Thermal Pixel Printing technology, IntelliXmark prints directly onto the surface of tubes sized from 0.5ml to 50ml.

Clear and durable marking with consistently legible text and barcodes printed at high resolutions is easier and faster than marking by hand. IntelliXmark's permanent printing is resistant to water, alcohols (methanol, ethanol, isopropanol), DMSO*, haematoxylin, liquid nitrogen and mechanical abrasion.

Printed information is stable over a wide temperature range from -196°C to 100°C and markings do not transfer when tubes are manually handled.

The IntelliXmark delivery package contains tube adapters with hole diameters 8.5mm, 11.5mm and 12.7mm. These are compatible with most commonly-used tubes. Other adapters are available to order separately, please specify at time of ordering.

KEY FEATURES

- IntelliXmark prints directly on the surface of plastic laboratory and sample storage tubes in seconds
- Most 0.5ml to 50ml laboratory tubes with a smooth surface can be printed
- Adjustable tube support platform allows printing on tubes without a lip or collar
- Tube profiles created in the IntelliXmark software can be saved for future reference and sample tracking
- Adjustable sled pivot point improves overall print quality for larger tubes and labels
- Wide range of adapters available for differing diameter tubes

Flexible Label Printing to Suit Your Needs

- Tubes can be marked with any orientation
- IntelliXmark can print text, 1D linear barcodes, 2D datamatrix codes and graphic files (monochrome .bmp, .gif, .tiff) such as logos
- Several lines of text can be printed, such as: sample name, your name, date, time etc.
- All TrueType fonts available on the connected PC can be printed
- Font size and type will determine the maximum available printable content

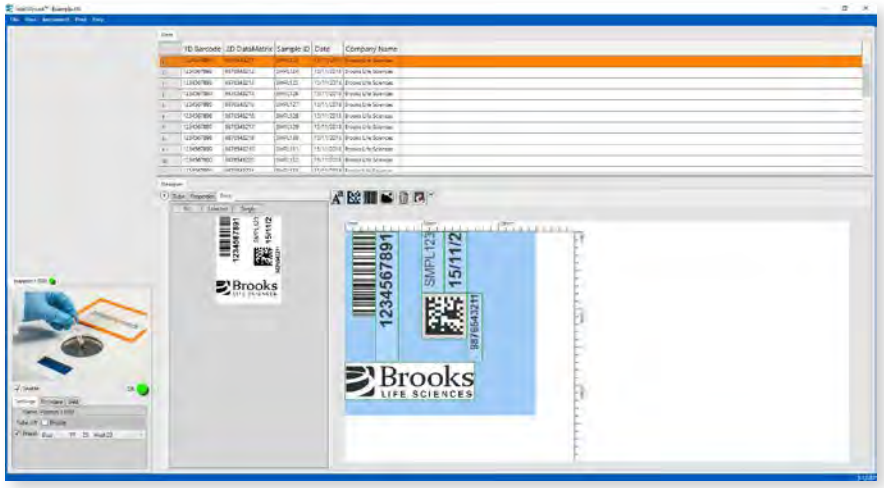
High-Quality and Durable Printing

- Thermal Pixel Printing technology produces clearer and more durable marking than marker pens
- Metallic blue, black and white ink ribbons are available for a range of colored tubes and colored contents
- Printing straight onto the tube surface is much easier than marking by hand or adhesive label
- Quick and easy to change ink ribbon
- Marking resistant to 70% ethanol, 70% isopropanol, >98% methanol, DMSO*, pure haematoxylin, liquid nitrogen and mechanical abrasion**
- Printing is temperature resistant from -196°C (liquid nitrogen) to 100°C
- 300m ink ribbon will mark up to 100,000 tubes*

*dependant on size of label print

	IntelliXmark™ Sample Tube Labelling System
Communication	USB port
Print Method	Thermal Pixel Printing
Label Detail	Print height: 6mm Print width: 40mm Any print orientation
Tube Compatibility	Most plastic laboratory tubes 0.5 to 50ml
Dimensions L x W x H	280mm x 270mm x122mm
Electrical	V in: AC 100-240V V out: DC 18V
Weight	4.8kg

*blue ribbon resistant to 70% DMSO, black & white ribbons resistant to 100% DMSO



Ordering Information

76-0001	**FluidX IntelliXmark Tube Marker**, Includes Tube Adapters 76-2001, 76-2002, 76-2003 and Printer Ribbons 76-1001, 76-1002 and 76-1003 (1 each per case)
76-1001	**FluidX IntelliXmark Printer Ribbon, Metallic Blue,** 300m length, 1 roll per case
76-1002	**FluidX IntelliXmark Printer Ribbon, White,** 300m length, 1 roll per case
76-1003	**FluidX IntelliXmark Printer Ribbon, Black,** 300m length, 1 roll per case
76-1004	**FluidX IntelliXmark Printer Ribbon, Universal Black,** 300m length, 1 roll per case
76-2002	**FluidX IntelliXmark, Tube Adapter for FluidX 48-format Cryo Tubes**. For use with FluidX 48-format cryo tubes and any other 12.7mm external diameter tube, hole diameter 12.7mm, 1 adapter per case
76-2003	**FluidX IntelliXmark Tube Adapter for 1.5ml/2ml Tubes.** Hole diameter 11.5mm, 1 adapter per case
76-2005	**FluidX IntelliXmark Tube Adapter for 2ml Screw Cap Tubes (10mm diameter).** For use with 2ml Screw Cap Tubes with 10mm external diameter, hole diameter 10.4mm, 1 adapter per case
76-2006	**FluidX IntelliXmark Tube Adapter for 15ml Tubes**. Hole diameter 18mm, 1 adapter per case
76-2007	**FluidX IntelliXmark Tube Adapter for 50ml Tubes**. Hole diameter 30mm, 1 adapter per case
76-2008	**FluidX IntelliXmark Tube Adapter for Matrix Tubes**. Hole diameter 8.2mm, 1 adapter per case
76-2009	**FluidX IntelliXmark Tube Adapter for 0.2ml Tubes**. Hole diameter 6.4mm, 1 adapter per case

Sample Tube Rack Thawing Station

The Rack Thawing Station is a stand-alone system designed to speed up the defrost time of chilled or frozen sample storage tubes. The system operates with 24, 48 or 96-format SBS racks providing gentle, but accelerated, thawing of racks of sample tubes.

Tubes are simultaneously and quickly thawed with minimum risk of sample damage and are ready for use at ambient temperature in around 20 minutes.

KEY FEATURES

Thawing with Minimized Risk of Sample Damage

- Complete sample recovery without applying heat
- Gentle, yet faster, tube thawing is achieved by forcing air at ambient temperature, using a fan, over the frozen sample tubes
- Minimizes the risk of sample damage as no direct heat is applied to the sample tubes

Fast and Flexible Performance

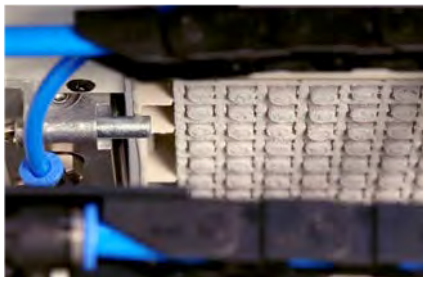
- A typical frozen sample, in deionized water, will defrost to an ambient temperature of 20°C in approximately 20 minutes
- The Sample Tube Rack Thawing Station does not require warm-up time, reducing delays in sample processing
- Compatible with SBS racked tubes in 24, 48 and 96-format
- Compact design is able to defrost whole racks of tubes simultaneously
- Simply select a 24, 48 or 96-way insert to suit sample format, place rack on thawing top plate and press start

	FLX-10-1061 Sample Tube Rack Thawing System
Fan Flow	>5 CFM
Defrost Time	Approx. 20 minutes for frozen demonized water to reach ambient 20°C
Rack Compatibility	24, 48 and 96-format racks conforming to ANSI/SBS 1-2004 microplate footprint dimensions
Dimensions L x W x H	138mm x 97mm x42mm
Electrical	100-240VAC, 50/60Hz, 0.3A 12VDC, 4W max
Weight	264g

Ordering Information

FLX-10-1061	**FluidX Microtube Thawing Station**

FrostX^2 Sample Tube De-Icing System



FrostX^2 is designed to quickly remove ice and frost from SBS-format racks of frozen sample tubes, to ensure complete readability of 2D datamatrix codes in cold-storage environments. Sample thawing is not necessary for accurate barcode reading and the FrostX^2 de-icing process takes 10 to 15 seconds whilst your sample remains frozen.

Failure to remove frost from a 2D-coded sample tube prior to reading can lead to serious errors. Delays in decoding can result from frosting, and tubes can become completely unreadable if more than 30% of the barcode is frosted.

FrostX^2 is a compact and lightweight unit, producing effective defrosting with any type of tube that can be stored in an SBS-format rack. The unit generates a high-pressure air blade, which removes the frost from the bottom of the tubes in a controlled and homogenous way.

KEY FEATURES

Broad Compatibility

- FrostX^2 can be used to defrost any 2D datamatrix coded tubes in SBS-format racks from all manufacturers
- 24, 48, 96, 240 and 384-format racks are all accommodated. PCR tubes, e.g. 2D-coded Random Access Tubes from 4titude are also supported
- Defrosting platform has a level, stable and dry surface to aid rapid defrosting

Designed With Sample Integrity in Mind

- Complete defrosting without applying heat, sample remains frozen
- Sensor confirms when SBS rack is correctly inserted for defrosting
- No direct heat is applied to the sample tubes, minimizing the risk of sample damage

Fast and Flexible Performance

- Number of air blade cycles, pressure of air flow and the speed that the air blade moves across the rack can be varied to optimize defrosting performance for each rack
- User-defined settings can be called up depending on rack type
- Defrosting process typically takes 10 to 15 seconds whilst the sample remains frozen

	FrostX^2 Sample Tube Rack Defrosting System
Supported Labware	Any SBS-format rack of any tubes. 24, 48, 96, 240 and 384-formats supported
Ambient Temperature	10°C to 40°C
Ambient Humidity	<70% relative humidity
Dimensions L x W x H	375mm x 234mm x 155mm
Electrical	24V, 1.5A input
Weight	5.3kg
Input Air Pressure	2.5 to 6 bar
Ambient Parameters	No vibration, no direct sunlight

Ordering Information

10-8001	**FluidX FrostX2 De-Icing Instrument.** Suitable for SBS-format racks, 1 base unit and AC adapter per case

Tube Auditor

Integration friendly

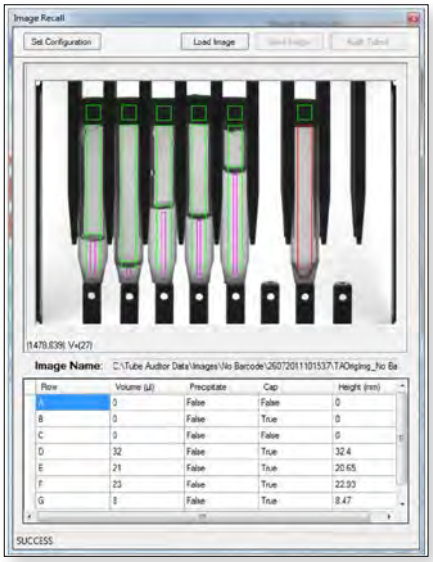
The Brooks Tube Auditor performs quick and easy Goods-In and Goods-Out QA checks to help ensure that your suppliers are providing what you ordered and that your customers are receiving what you promised.

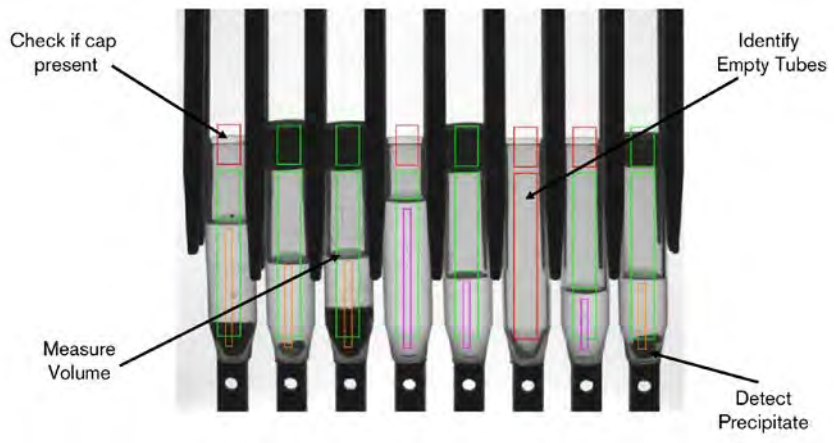
- High-speed measurement - accurate to better than +/- 10µl - Minimizes downstream costs from the processing of empty plate wells
- Precipitate detection - Increases confidence in the concentration of delivered output samples
- Cap detection - Helps avoid damage to liquid handling tips caused by failed de-cap operations
- No need to de-cap tubes - Eliminates possibility of cross contamination
- Manual or remote operation - allows integration into automated system
- Image storage and recall - allows audit trail and provides ability to re-assess or re-analyze the image

Feature	Tube Auditor	Tube Auditor Pro
Volume Measurement	x	x
Cap Detection	x	x
Manual and Remote Operation	x	x
User Interface Software	x	x
Image Capture and Recall	x	x
Precipitate Detection		x

Specification

Specifications and Requirements	
Dimensions (L x W x H)	864mm x 424mm x 414mm(34” x 16.7” x 16.3”)
Weight	32kg (70lbs)
Electrical	110-240 VAC 50/60Hz
PC	Microsoft® Windows® 10





FreezerPro® - Laboratory Management Software

Integration friendly

FreezerPro system is a web-based sample inventory management system ideal for small labs and SME customers. FreezerPro manages hundreds of collections in all types of organization ranging from small research outfits to central biorepositories with millions of records.

FreezerPro® systems are relied on by small research programs, huge biobanks with millions of samples, and all groups in-between. Using cross-region servers and industry-defining storage technologies, the system is designed to keep samples in the right conditions and make retrieving them for study easier. We manage security through sample data encryption, both during sample transit and while they are at rest. FreezerPro® is designed and developed as a web-based sample management system that provides access to sample information from anywhere in the world.

- **No IT Requirements Whatsoever** - By not requiring installation, individual labs within larger organizations gain more autonomy. Start-ups and other small labs can completely avoid all IT staffing and investment
- **Regulatory Liability Protection** - Remove nearly all liability concerns related to data security. Using FreezerPro® Cloud negates expensive information security upgrades for individual labs
- **Lower Capital Expenditure** - With FreezerPro® Cloud, the total cost of deployment is significantly lower, compared to other sample management software options. FreezerPro® is a class-leading frozen sample management solution that is indispensable to any modern scientific or pharmaceutical laboratory
- **Deployed in Hours, Not Weeks** - FreezerPro® systems automate more daily sample management operations than expensive software solutions
- **Makes Daily Lab Operations Easier** - FreezerPro® Cloud records information for sample check in and out, aliquotting and inheritance, plus storage location data with only a few clicks or a drag of the mouse
- **Enhances Accuracy and Availability of Lab Information** - Advanced data mining, automatic data validity checks, hundreds of alert settings and embedded integration with Microsoft Excel are just a few of the tools users and admins have to ensure that data is input properly and is immediately accessible for analysis and reporting.

Automated Sample Storage: Ambient to -190°C

In addition to our extensive range of consumables and instruments, Brooks Life Sciences is also the global leader in automated sample storage systems.

Our deep application experience and proven, highly reliable technology protects sample integrity and improves sample visibility to ensure the continuity of your sample management. From compound management and high-throughput screening, to biobank sample management, to storage of cellular products at cryogenic temperatures; Brooks provides flexible, modular solutions that offer the security and reliability to optimise our customers workflow. As the preferred storage partner to the world's top biotechnology companies, Brooks reduces risk and delivers industry-leading uptime that maximizes the return of your sample management investment.

Flexible automated storage technology that fits your applications allowing you to focus on delivering your research goals.

Transforming workflows and productivity to improve research timeslines our stores accommodate from 70,000 to more than 10 million tubes and are adaptable to meet future needs.

- **SampleStore™ SE: Ambient to -20°C**
- **BioStore™ SE: -80°C**
- **SampleStore™ II: Ambient to -20°C**
- **BioStore™ II: -80°C**
- **BioStore™ III Cryo: -190°C vapor storage environment**
- **BioStore™ III v: -20°C and -150°C**

SampleStore™ SE
Ambient to -20° C

BioStore™ II
-80° C

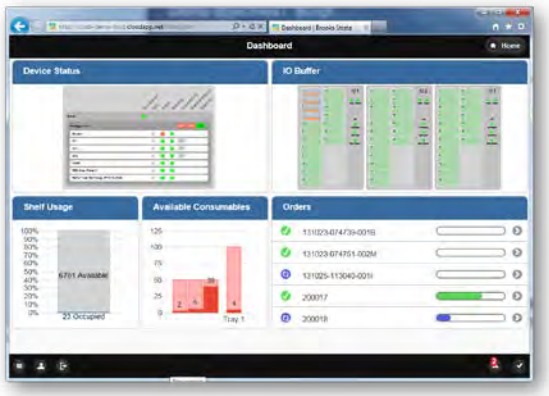
BioStore™ III
-190° C

Note: See our Cryo range of stores for -190°C storage

Strata™ Control Software

Brooks Strata™ control software enables precise sample inventory management within the Brooks automated storage systems. Strata's intuitive, information rich interface makes automated storage flexible, easy and convenient.

- No special engineering expertise is required
- Efficiently processes and securely protects samples
- Sample data is accessible from any location using a laptop, tablet, or other web enabled devices.
- Simplified integration with corporate IT and LIMS networks
- Intelligent diagnostics and error recovery ensure reliable performance.



SampleStore™ SE

The SampleStore SE is the new space efficient automated sample storage system from Brooks for temperatures from ambient to -20°C. The system has been designed to fit in today's standard laboratory. SampleStore SE stores a range of container types and sizes and provides compact, flexible, high density sample storage.

SampleStore SE could be the first step in simplifying your lab sample inventory and sample management.

- The SampleStore SE is the ideal solution for labs which have smaller sample library collections but need the benefits of automation like easier, faster and more reliable access to high-quality samples.
- The SampleStore SE captures sample barcode data upon input to automatically update the inventory and assign a storage location.

FEATURES AND BENEFITS

- **Easier Sample Storage and Greater Space Efficiency**
  - SampleStore SE is space efficient to fit in standard labs
  - Simple intuitive design for easy system operation
- **Simple Sample Management**
  - Push button sample storage and retrieval
- **Sample Protection**
  - Automated handling for minimized sample temperature cycling
  - Remote monitoring and product support
- **FluidX AcoustiX™ Sample Tube, a Labcyte Echo® compatible consumable**

SAMPLESTORE SE STORE DIMENSIONS

	Height	Width	Depth
SampleStore SE	2.48m [8ft 2in]	4.31m [14ft 2in]	2.38m [7ft 10in]
Room Requirement	2.50m [8ft 3in]	5.61m [18ft 5in]	3.4m [11ft 2in]

SAMPLESTORE SE CAPACITY

Labware Description	Capacity
2.0 mL sample storage tubes 2D-coded, external threads	105,000
1.0 mL sample storage tube, 2D-coded, external threads	295,000
0.7 mL sample storage tube, 2D-coded, external threads	355,000
0.3 mL sample storage tube, 2D-coded, external threads	530,000
0.2 mL 240 positions in an SBS rack, 2D coded, External threads	665,000
SBS Microplates 14.5mm high, foil sealed	4,500

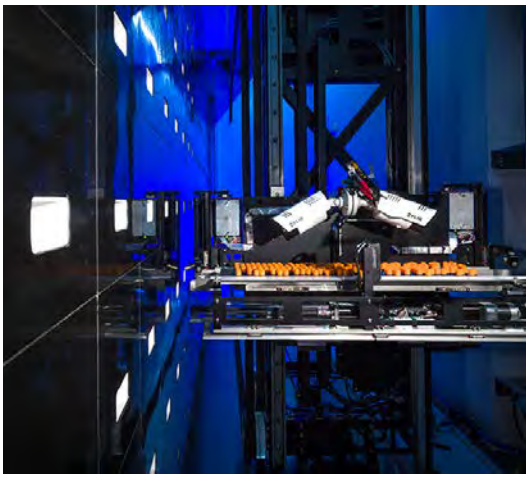
BioStore™ SE

The BioStore SE is the new space efficient automated -80°C sample storage system from Brooks. The system bas been designed to fit in today's standard laboratory. BioStore SE stores a range of container types and sizes and provides compact, flexible, high density sample storage.

This could be the first step in simplifying your lab sample inventory and sample management.

- The BioStore SE is the ideal solution for those who have smaller sample collections but need the benefits of automation like easier, faster and more reliable access to high-quality samples.
- The BioStore SE captures sample barcode data upon input to automatically update the inventory and assign a storage location.

FEATURES AND BENEFITS



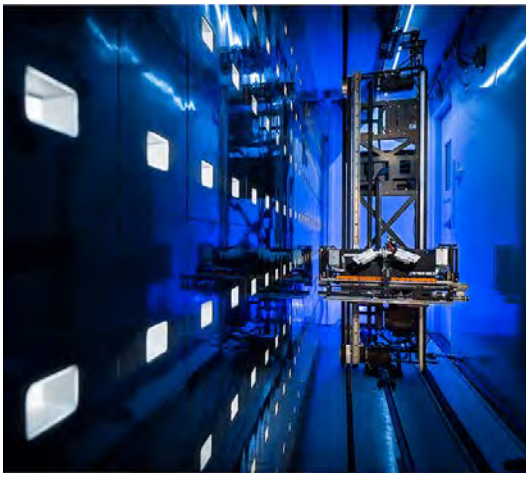
- **Easier Sample Storage and Greater Space Efficiency**
  - BioStore SE is space efficient to fit in standard labs
  - Simple intuitive design for easy system operation
- **Simple Sample Management**
  - Push button sample storage and retrieval
- **Sample Protection**
  - Automated handling for minimized sample temperature cycling
  - Robust refrigeration design for sample protection from disasters
  - Remote monitoring and product support
- **Additional -20°C Storage Zone**
  - Extra flexibility for storing different sample types

BIOSTORE SE STORE DIMENSIONS

	Height	Width	Depth
BioStore SE	2.48m [8ft 2in]	4.31m [14ft 2in]	2.38m [7ft 10in]
Room Requirement	2.50m [8ft 3in]	5.51m [18ft 1in]	3.4m [11ft 2in]

BIOSTORE SE CAPACITY

Labware Description	-80°C Capacity	-20°C Storage
2.0 mL sample storage tubes 2D-coded, external threads	76,000	8,400
1.0 mL sample storage tube, 2D-coded, external threads	212,000	23,500
0.7 mL sample storage tube, 2D-coded, external threads	265,000	29,400
0.3 mL sample storage tube, 2D-coded, external threads	375,000	41,600
0.2 mL 240 positions in an SBS rack, 2D-coded, External threads	495,000	55,000
SBS Microplates 14.5mm high, foil sealed	3,200	300



Biocision Key Products

Biocision CryoPod™ Carrier

Portable Liquid Nitrogen (LN2)-Based Cryogenic Transport.

CryoPod™ Carrier provides a safe, reliable and portable < -150°C cryogenic environment for the handling and transport of biological specimens for over 4 hours. The instrument displays and logs temperature, date and time, and features audible and visual alarms, and integrates into an optional automated filling station for hands-free replenishing of the LN2 charge in less than15 minutes.

Ensures operator safety

- Allows safe and quick transportation of cryogenic samples
- Hands-free auto-fill option

Maintains sample cold chain integrity

- Temperature display with audible and visual alarms
- Temperature logging and retrieval

Delivers reliable performance

- Over 4 hours <-150°C
- No direct sample contact with LN2

Portable

- Compact footprint; only ~9 lbs
- Built-in handle and bottom finger grips

Specification

Hold Time	Over 4 hours < -150°C with lid closed
Capacity	One 2" cryobox, 2 SBS plates or some cassette sizes
Charge	Requires < 3L liquid nitrogen (LN2)
Alarm	Two settings with audible and visual signals
Lid	Magnetized foam lid for safer transport and insulation
Power	3 AA alkaline batteries (included)
Temperature Audit Trail	Downloadable temperature log data via USB port and CryoPod Data Log Software
Weight	4.1 kg (9 lbs) without LN2 5.9 kg (13 lbs) fully charged with 3L LN2 - no samples
External dimensions (L x W x H)	34.0 x 32.0 x 26.0 cm (13.4 x 12.6 x 10.2 in)
Cryogenic chamber basket dims (L x W x H)	17.4 x 18.8 x 7.8 cm (6.9 x 7.4 x 3.1 in)

Ordering Information

243354-001	**CryoPod™ Carrier,** includes orange lid and manual fill kit
252888-002	**CryoPod™ lid,** green, optional
252888-001	**CryoPod™ lid,** orange, optional
252888-004	**CryoPod™ lid,** pink, optional
252888-003	**CryoPod™ lid,** grey, optional
252888-005	**CryoPod™ lid,** purple, optional
252885	**CryoPod™ Manual Fill Kit**
252886	**CryoPod™ LN2 Absorbent Pads,** 4pc, 2/pk

Biocision CoolCell® Container Controlled-Rate, Alcohol-Free Cell Freezing

CoolCell® alcohol-free cell freezing containers ensure standardized controlled-rate -1°C/minute cell freezing in a -80°C freezer - without alcohol or any fluids. Proven for use with a variety of cell types including stem cells, primary cells, PBMC cell lines, insect cells, yeast and others. The patent-pending CoolCell technology utilizes a thermo-conductive alloy core and highly-insulative outer material to control the rate of heat removal and provide reproducible cell cryopreservation. CoolCell units are easy to use and deliver comparable results to expensive programmable freezers.

CoolCell® is proven to work with many cell types including:

Primary Cells

Neonatal Keratinocytes
Human WBCs
Mouse WBCs
Human CD34+
Muscle
Human Tendon Fibroblasts
Melanoma Tumor
Human Cardiac Ventricular
Human Cardiac Atrial

Stem Cells

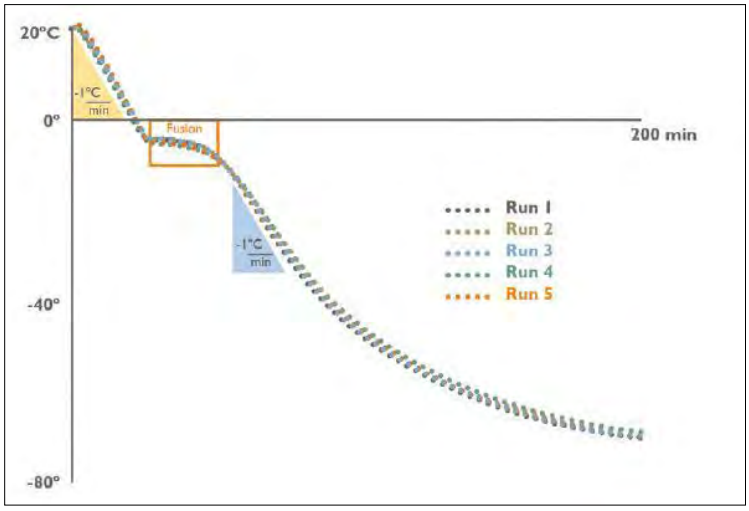
Human Embryonic Stem
Preadipocytes
Breast Cancer Stem
Colon Cancer Stem
Glioblastoma Stem
Mouse Embryonic Stem
Human Endothelial Progenitor

Cell Lines

CHO
LnCap
HTB77
A549
HeLa

CoolCell® Reproducibility

Performance test: A temperature probe was placed into a 2.0 mL cryogenic vial containing 1.0 mL of water and the tube was inserted into a room temperature CoolCell®. The CoolCell was placed into a -80°C freezer and the temperature rate and profile was recorded over a 3 hour period. The test was repeated 5 consecutive times. Conclusion: CoolCell generated identical fusion time and cooling profiles over five consecutive freeze cycles.



KEY FEATURES

CoolCell® Container No Alcohol

No fluids
No pre-cooling
Saves 12L/unit of IPA per year

No Variability

All vials have uniform freeze rate
Radially symmetric design ensures vial consistency

No On-Going Cost

No alcohol purchase or disposal

No Stuck Lids

Ergonomic lid comes off easily when frozen
Not cold to the touch when removing from the -80˚C freezer

Quick Re-Use Time

Ready to use again after five minutes

Biocision CoolCell® Container Controlled-Rate, Alcohol-Free Cell Freezing

For 12 standard 1.0 mL to 2.0 mL cryogenic vials, 1.0 mL fill per vial. Radially symmetric for uniform vial freezing. Numbered wells for easy sample identification. Bevelled lid for secure gripping and easy opening. Exposed vial tops when lid is open for quick, organized removal of frozen samples.

Ordering Information

Item No.	Description	External Dimensions	Well Diam.	No. of Wells	Pack Size
BCS-405	CoolCell LX, purple	Diam 11.7 x H 9.9 cm	12.7 mm	12	1
BCS-405G	CoolCell LX, green	"	"	"	"
BCS-405O	CoolCell LX, orange	"	"	"	"
BCS-405PK	CoolCell LX, pink	"	"	"	"

Biocision CoolCell® FTS30

For 30 standard 1.0 mL to 2.0 mL cryogenic vials, 1.0 mL fill per vial. Controlled micro-convection for uniform freezing of 30 vials. Removable vial tray for one-step transfer of samples into and out of freezing chamber.

Ordering Information

Item No.	Description	External Dimensions	Well Diam.	No. of Wells	Pack Size
BCS-170	•CoolCell FTS30, purple	Diam 16.5 x H 11.5 cm	12.3 mm	30	1
BCS-170G	•CoolCell FTS30, green	"	"	"	"
BCS-170O	•CoolCell FTS30, orange	"	"	"	"
BCS-170PK	•CoolCell FTS30, pink	"	"	"	"

Biocision Cell Cryopreservation Accessories

Biocision CryoCeps™ Cryogenic Vial Grippers

Cryogenic vial grippers feature a unique design to grasp internal-or external-thread cryogenic vials. Easily sort or move vials while maintaining sterility and protecting fingers from frozen vials, dry ice and liquid nitrogen.

Ordering Information

BCS-213MC	**CryoCeps Cryogenic Vial Grippers,** multi-color. 5 per pack.

Biocision TruCool® Hinged CryoBoxes

Patented hinged lid offers convenience and archival integrity, ensuring markings and vials remain in sync. Lid stays attached to base minimizing risk of separation and lid contamination. Lid is easy to open when frozen. Available in 9x9,10x10, and vapor phase LN2 compatible formats. Plastic 81-place grid has adjustable slats to accommodate multiple vial types. 2-inch box holds 1.0 mL or 2.0 mL cryogenic vials and microfuge tubes. 3.5-inch box holds 3.0 mL to 5.0 mL cryogenic vials.

Ordering Information

	Freezer Storage						Cryo Storage	
	2-inch Hinged CryoBox with adjustable plastic grid, 81-place		2-inch Hinged CryoBox with fixed plastic insert, 100-place		3.5-inch Hinged CryoBox with adjustable plastic grid, 81-place		2-inch Hinged CryoBox with adjustable plastic grid, LN2 drain holes, 81 place	
Qty per pack:	5	50	5	50	6	30	5	50
● White	BCS-206	BCS-207	-	-	-	-	-	
● Blue	BCS-206B	BCS-207B	-	-	-	-	-	
● Green	BCS-206G	BCS-207G	BCS-209G	BCS-220G	BCS-215G	BCS-219G	BCS-217G	BCS-221G
● Orange	BCS-206O	BCS-207O	-	-	-	-	-	
● Purple	BCS-206P	BCS-207P	BCS-209P	BCS-220P	BCS-215P	BCS-219P	BCS-217P	BCS-221P
● Pink	BCS-206PK	BCS-207PK	-	-	-	-	-	
Multi-color (no white)	BCS-206MC	-	-		-		-	
Dimensions (L x W x H)	13.3 x 13.3 x 5.1 cm 5.25 x 5.25 x 2.0 in		13.3 x 13.3 x 5.1 cm 5.25 x 5.25 x 2.0 in		13.3 x 13.3 x 9.2 cm 5.25 x 5.25 x 3.5 in		13.3 x 13.3 x 51cm 5.25 x 5.25 x 2.0 in	

For further Biocision product information please contact us for the Brooks Biocision Catalogue

Notes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About Brooks:

Brooks is a leading worldwide provider of automation and cryogenic solutions for multiple markets including semiconductor manufacturing and life sciences. Brooks' technologies, engineering competencies and global service capabilities provide customers speed to market and ensure high uptime and rapid response, which equate to superior value in their mission-critical controlled environments. Since 1978, Brooks has been a leading partner to the global semiconductor manufacturing market as a provider of precision automation and cryogenic vacuum solutions. Since 2011, Brooks has applied its automation and cryogenics expertise to meet the sample storage needs of customers in the life sciences industry, through Brooks Life Sciences. Brooks Life Sciences offerings include a broad range of products and services for on-site infrastructure for sample management at temperatures of 20°C to -190°C, as well as comprehensive outsource service solutions across the complete life cycle of biological samples including collection, transportation, processing, storage, protection, retrieval and disposal. Brooks is headquartered in Chelmsford, MA, with operations in North America, Europe and Asia.

Ordering Information

For ordering information please contact your local Brooks Life Sciences representative.

EU	Email: BLSS.Europe.Orders@brooks.com	Tel: Europe +44.0.161.777.2000
US	Email: BLSS.NA.Orders@brooks.com	Tel: North America +1.858.527.7080