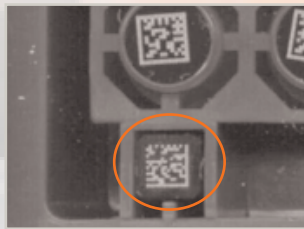
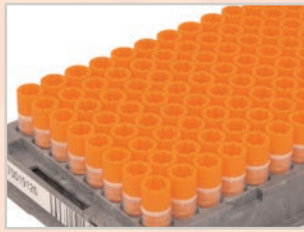


# Sample Storage Product Range



version 4.3

**fluidx**

[www.fluidx.eu](http://www.fluidx.eu)

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The team at FluidX probably know more about 2D barcoded sample storage tubes and readers than any other group in the world. We should! We were part of the team that developed the very first 2D barcoded tubes back in 1999. Since that time we've been at the forefront of developing consumables and readers, and many of our products are "firsts" and today we continue to innovate.

One of our customers commented "FluidX are great, they have really useful products".  
How do we do this? We talk, we ask questions, we listen, and then we develop great solutions!

On top of offering exciting and useful products FluidX are committed to providing the highest levels of customer service and support. Our Technical Support Team offers expert assistance so that our tubes and readers give the reliable, optimal performance you expect.

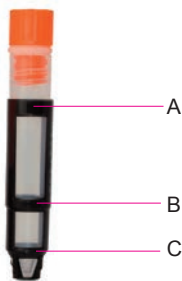
To contact the Support Team directly:  
Email [support@fluidx.eu](mailto:support@fluidx.eu) or call +44 (0) 1625 861614



### Tube and rack features

Below is an explanation of some terms used in the following tables

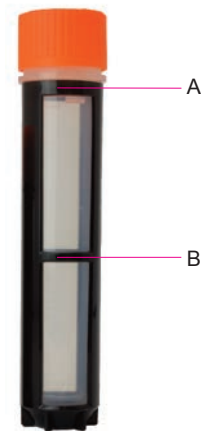
#### Volume markings (jacket tubes only)



0.75ml and 1.3ml tubes with jacket



2ml, 4ml and 6ml glass tubes with jacket



6ml and 10ml polypropylene tubes with jacket

#### TubeLock



Tubes can be locked into the rack to prevent tubes falling out, even without a lid.

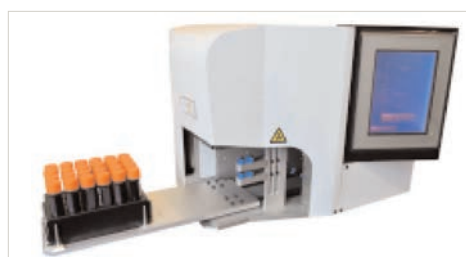
Tubes can be placed in either locked or unlocked positions.



#### TwistLock



Prevents tubes rotating within the rack to enable automated capping and decapping of screw caps. TwistLock is provided as standard however some racks are available without TwistLock for use on specific automated systems.








#### LidLock



Latch for locking and unlocking rack lid. With the LidLock on tubes are prevented from falling out if rack is inverted or dropped.









96 Well Format Tubes with TPE Septum Caps

| TUBE TYPE                 | 96 WELL FORMAT TUBES WITH TPE SEPTUM CAPS (NO JACKET)  |   |   | 96 WELL FORMAT TUBES WITH TPE SEPTUM CAPS (WITH JACKET)   |   |
|---------------------------|--|---|---|---|---|
|                           | 0.5ml  | 1.0ml   | 1.4ml   | 0.75ml  | 1.3ml   |
|                           |                                       |  |  |                               |  |
| MAX WORKING VOLUME (ml)   | 0.35   | 0.8   | 1.0   | 0.55  | 0.93  |
| TUBE HEIGHT (mm)          | 21.0   | 36.6  | 44.0  | 27.6  | 44.0  |
| TUBE HEIGHT WITH CAP (mm) | 22.1   | 37.9  | 45.2  | 28.7  | 45.0  |
| INNER DIAMETER (mm)       | 6.8  | 6.8   | 6.8   | 6.5   | 6.8   |
| OUTER DIAMETER (mm)       | 8.4  | 8.4   | 8.4   | 8.3   | 8.8   |
| CENTRE TO CENTRE (mm)     | 9.0  | 9.0   | 9.0   | 9.0   | 9.0   |
| MIN TEMPERATURE (°C)      | -80  | -80   | -80   | -80   | -80   |
| 2D CODED                  | Yes  | Yes   | Yes   | Yes   | Yes   |
| 2D CODE INFO              | Black on white, 12X12, 10 numeric digits<br>Custom prefix available, 2 alpha and 8 numeric<br>White on black available |   |   | Black on white, 14x14, 2 alpha and 8 numeric<br>Custom code available. Any sequence with<br>supplied Excel file |   |
| LINEAR BARCODE            | No   | No  | No  | Yes   | Yes   |
| HUMAN READABLE            | No   | No  | No  | Yes   | Yes   |
| ALPHANUMERIC              | Yes  | Yes   | Yes   | No  | No  |
| NON-CODED OPTION          | Yes  | Yes   | Yes   | No  | No  |
| CAPPING OPTIONS           | Available uncapped or precapped with screw cap<br>Tubes can be used with either septum cap or screw caps               |   |   | Precapped with screw cap or uncapped for use<br>with TPE septum cap   |   |
| THREAD TYPE               | Internal   | Internal  | Internal  | Internal  | Internal  |
| RACK TYPE OPTIONS         | 66-51003<br>With TwistLock<br>and LidLock.<br>2D rack ID option  | 66-51000<br>With TubeLock,<br>TwistLock and<br>LidLock                            | 66-51016<br>With TubeLock,<br>TwistLock and<br>LidLock                            | 66-51004<br>With TwistLock and<br>LidLock.<br>2D rack ID option   | 66-51018<br>With TwistLock and<br>LidLock.  |
|                           | 66-51013<br>With Slip Lid,<br>TwistLock and<br>TubeLock.   | 66-61001<br>With TwistLock and<br>LidLock.<br>2D rack ID option                   | 66-61002<br>With TwistLock and<br>LidLock.<br>2D rack ID option                   |   |   |
| RACK MATERIAL             | PP   | PP  | PP  | PP  | PP  |








N.B. Working volume of each tube is calculated to ensure that the internal pressure does not exceed 2 bar for septum sealed tubes (4 bar for tubes sealed with screw caps) when sample is frozen.

96 Well Format Tubes with Screw Caps

| TUBE TYPE                 | 96 WELL FORMAT TUBES WITH SCREW CAPS (NO JACKET)  |  |  | 96 WELL FORMAT TUBES WITH SCREW CAPS (WITH JACKET)   |   |   |
|---------------------------|---|--|--|--|---|---|
|                           | 0.5ml   | 1.0ml  | 1.4ml  | 0.3ml  | 0.75ml  | 1.3ml   |
|                           |                                        |                                     |                                     |                            |  |  |
| MAX WORKING VOLUME (ml)   | 0.27  | 0.73   | 0.97   | 0.26   | 0.5   | 0.95  |
| TUBE HEIGHT (mm)          | 21.0  | 36.6   | 44.0   | 15.3   | 27.6  | 44.0  |
| TUBE HEIGHT WITH CAP (mm) | 29.8  | 45.6   | 52.9   | 18.6   | 36.5  | 52.8  |
| INNER DIAMETER (mm)       | 6.8   | 6.8  | 6.8  | 6.35   | 6.5   | 6.8   |
| OUTER DIAMETER (mm)       | 8.4   | 8.4  | 8.4  | 8.7  | 8.3   | 8.8   |
| CENTRE TO CENTRE (mm)     | 9.0   | 9.0  | 9.0  | 9.0  | 9.0   | 9.0   |
| MIN TEMPERATURE (°C)      | -196  | -196   | -196   | -196   | -196  | -196  |
| 2D CODED                  | Yes   | Yes  | Yes  | Yes  | Yes   | Yes   |
| 2D CODE COLOUR            | Black on white, 12X12, 10 numeric digits<br>Custom prefix available, 2 alpha and 8 numeric<br>White on black available  |  |  | Black on white, 14X14, 2 alpha and 8 numeric<br>Custom code available. Any sequence with supplied Excel file |   |   |
| LINEAR BARCODE            | No  | No   | No   | No   | Yes   | Yes   |
| HUMAN READABLE            | No  | No   | No   | Option   | Yes   | Yes   |
| ALPHANUMERIC              | Yes   | Yes  | Yes  | No   | No  | No  |
| NON-CODED OPTION          | Yes   | Yes  | Yes  | No   | No  | No  |
| CAPPING OPTIONS           | Available uncapped or precapped with screw cap<br>Tubes can be used with either septum cap or screw caps                |  |  |  |   |   |
| THREAD TYPE               | Internal  | Internal   | Internal   | External   | Internal  | Internal  |
| RACK TYPE OPTIONS         | 66-51004<br>With TwistLock and LidLock.<br>2D Rack ID option.<br><br>66-51014<br>With Slip Lid, TwistLock and TubeLock. | 66-51016<br>With TubeLock, TwistLock and LidLock<br><br>66-61002<br>With TwistLock and LidLock.<br>2D rack ID option | 66-51017<br>With TubeLock, TwistLock and LidLock<br><br>66-61003<br>With TwistLock and LidLock.<br>2D rack ID option | 68-0300-20<br>With TwistLock and LidLock.<br>2D rack ID option   | 66-51015<br>With TwistLock and LidLock<br>2D rack ID option                         | 66-51018<br>With TwistLock and LidLock.   |
| RACK MATERIAL             | PP  | PP   | PP   | PP   | PP  | PP  |
| VOLUME MARKER (JACKET) A  | NA  | NA   | NA   | 200ul  | 500ul   | 1000ul  |
| VOLUME MARKER (JACKET) B  | NA  | NA   | NA   | 50ul   | 350ul   | 350ul   |
| VOLUME MARKER (JACKET) C  | NA  | NA   | NA   | NA   | 75ul  | 75ul  |








N.B. Working volume of each tube is calculated to ensure that the internal pressure does not exceed 2 bar for septum sealed tubes (4 bar for tubes sealed with screw caps) when sample is frozen.

Cryo Tubes

|                           | CRYO TUBES  |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|
| TUBE TYPE                 | 1ml   | 2ml   | 2ml (jacket)  | 2ml (jacket)  | 2ml   | 4ml   | 1.5ml   |
|                           |                    |                    |  |  |                  |  |  |
| MAX WORKING VOLUME (ml)   | 1.0   | 2.0   | 1.8   | 2.0   | 2.0   | 3.5   | 1.4   |
| TUBE HEIGHT (mm)          | 32.0  | 38.0  | 38.2  | 38.2  | 40.0  | 76.0  | 46.4  |
| TUBE HEIGHT WITH CAP (mm) | 41.8  | 47.8  | 48.0  | 43.9  | 47.1  | 83.1  | 47.5  |
| INNER DIAMETER (mm)       | 10.6  | 10.6  | 10.6  |   | 9.8   | 9.8   | 8.4   |
| OUTER DIAMETER (mm)       | 12.6  | 12.6  | 12.6  | 12.7  | 13.1  | 13.1  | 12.7  |
| CENTRE TO CENTRE (mm)     | 13.5  | 13.5  | 13.5  | 13.5  | 13.5  | 13.5  | 13.4  |
| MIN TEMPERATURE (°C)      | -196  | -196  | -196  | -196  | -196  | -196  | -196  |
| 2D CODED                  | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |
| 2D CODE COLOUR            | White   | White   | White   | White   | White   | White   | White   |
| LINEAR BARCODE            | No  | No  | Yes   | No  | No  | No  | Yes   |
| HUMAN READABLE            | No  | No  | Yes   | No  | No  | No  | Yes   |
| ALPHANUMERIC              | No  | No  | No  | No  | No  | No  | No  |
| NON-CODED OPTION          | No  | No  | No  | No  | No  | No  | No  |
| CAPPING OPTIONS           | Precapped with screwcap   |   |   | Precapped with screwcap<br>Uncapped   | Precapped with screwcap   |   |   |
| THREAD TYPE               | Internal  | Internal  | Internal  | External  | External  | External  | External  |
| RACK TYPE OPTIONS         | 65-9451<br>With TwistLock<br>and LidLock.<br>2D rack ID<br>option.<br><br>65-7541<br>With TwistLock | 65-9451<br>With TwistLock<br>and LidLock.<br>2D rack ID<br>option.<br><br>65-7541<br>With TwistLock | 65-9451<br>With TwistLock<br>and LidLock.<br>2D rack ID<br>option.                | 65-9451<br>With TwistLock<br>and LidLock.<br>2D rack ID<br>option.                | 65-9451<br>With TwistLock<br>and LidLock.<br>2D rack ID<br>option.<br><br>65-7541<br>With TwistLock | 65-3452<br>With TwistLock   | 65-9141<br>With TwistLock.<br>Polycarbonate<br>slip lid.                            |
| QUANTITY IN RACK          | 24, 48  | 24, 48  | 24, 48  | 24, 48  | 24, 48  | 24, 48  | 48  |
| RACK MATERIAL             | PP  | PP  | PP  | PP  | PP  | PP  | PP  |
| VOLUME MARKER (JACKET) A  | NA  | NA  | 2000ul  | 1800ul  | NA  | NA  |   |




N.B. Working volume of each tube is calculated to ensure that the internal pressure does not exceed 2 bar for septum sealed tubes (4 bar for tubes sealed with screw caps) when sample is frozen.

Large Format and Glass Tubes

| TUBE TYPE                 | 24 & 48 WELL FORMAT TUBES,<br>LARGE FORMAT  |   |   | 24 & 48 WELL FORMAT TUBES,<br>GLASS   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|
|                           | Tissue sample<br>tube   | 6ml   | 10ml  | 2.0ml   | 4.0ml   | 6ml   | 1.2ml   |
|                           |  |  |  |  |  |  |  |
| MAX WORKING VOLUME (ml)   | 3.0   | 5.5   | 8.0   | 1.8   | 3.5   | 5.5   | 0.9   |
| TUBE HEIGHT (mm)          | 25.9  | 56.4  | 77.4  | 48.1  | 48.2  | 56.4  | 48.5  |
| TUBE HEIGHT WITH CAP (mm) | 28.4  | 58.9  | 79.9  | 50.6  | 50.7  | 58.9  | 50.0  |
| INNER DIAMETER (mm)       | 13.4  | 12.0  | 13.0  | 8.0   | 10.5  | 12.0  | 7.6   |
| OUTER DIAMETER (mm)       | 17.0  | 17.0  | 17.0  | 13.4  | 15.8  | 17.0  | 8.4   |
| CENTRE TO CENTRE (mm)     | 18.0  | 18.0  | 18.0  | 13.5  | 18.0  | 18.0  | -   |
| MIN TEMPERATURE (°C)      | -196  | -196  | -196  | -80   | -80   | -80   | -80   |
| 2D CODED                  | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |
| 2D CODE COLOUR            | White   | White   | White   | White   | White   | White   | Black on white  |
| LINEAR BARCODE            | Option  | Yes   | Yes   | Yes   | Yes   | Yes   | No  |
| HUMAN READABLE            | Option  | Yes   | Yes   | Yes   | Yes   | Yes   | No  |
| ALPHANUMERIC              | No  | No  | No  | No  | No  | No  | No  |
| NON-CODED OPTION          | No  | No  | No  | No  | No  | No  | Yes   |
| CAPPING OPTIONS           | Precapped with screw cap  |   |   |   |   |   | Uncapped  |
| THREAD TYPE               | External  | External  | External  | External  | External  | External  | None  |
| RACK TYPE OPTIONS         | 68-4000-00<br>With Lid Lock.<br>2D rack ID<br>option                              | 65-9454<br>With TwistLock<br>and LidLock.<br>2D rack ID<br>option.                | 65-9455<br>With TwistLock.<br>2D rack ID<br>option.<br>No lid.                    | 65-9451<br>With TwistLock<br>and LidLock.<br>2D rack ID<br>option.                | 65-9451<br>With TwistLock<br>and LidLock.<br>2D rack ID<br>option.                  | 65-9454<br>With TwistLock<br>and LidLock.<br>2D rack ID<br>option.                  |   |
| QUANTITY IN RACK          | 24  | 24  | 24  | 48  | 24  | 24  | 96  |
| RACK MATERIAL             | PP  | PP  | PP  | PP  | PP  | PP  | PP  |
| VOLUME MARKER (JACKET) A  |   | 5000ul  | 8500ul  | 1500ul  |   | 4500ul  | NA  |
| VOLUME MARKER (JACKET) B  |   | 2250ul  | 4000ul  | 600ul   |   | 1800ul  | NA  |

N.B. Working volume of each tube is calculated to ensure that the internal pressure does not exceed 2 bar for septum sealed tubes (4 bar for tubes sealed with screw caps) when sample is frozen.

240 and 384 Well Format Tubes

| TUBE TYPE                 | 384 WELL<br>FORMAT TUBES  |   | 240 WELL<br>FORMAT TUBES  |
|---------------------------|---|---|---|
|                           | SQUARE  | ROUND   |   |
|                           |  |  |  |
| MAX WORKING VOLUME (ml)   | 0.1   | 0.08  | 0.2   |
| TUBE HEIGHT (mm)          | 14.0  | 14.0  | 24.1  |
| TUBE HEIGHT WITH CAP (mm) |   | 16.9  | 27.2  |
| INNER DIAMETER (mm)       | 3.6   | 3.6   | 4.0   |
| OUTER DIAMETER (mm)       | 4.4   | 4.4   | 5.8   |
| CENTRE TO CENTRE (mm)     | 4.5   | 4.5   | 6.0   |
| MIN TEMPERATURE (°C)      | -196  | -196  | -196  |
| 2D CODED                  | Yes   | Yes   | Yes   |
| 2D CODE COLOUR            | White   | White   | White   |
| LINEAR BARCODE            | No  | No  | Yes   |
| HUMAN READABLE            | No  | No  | Yes   |
| ALPHANUMERIC              | No  | No  | No  |
| NON-CODED OPTION          | No  | No  | No  |
| CAPPING OPTIONS           | No cap<br>Film seal   | No cap<br>Septum cap<br>Film seal   | Precapped with<br>screw cap   |
| THREAD TYPE               | NA  | NA  | External  |
| RACK TYPE OPTIONS         |   |   | 67-0200-00<br>With TwistLock<br>and LidLock.<br>2D rack ID option.                |
| QUANTITY IN RACK          | 384   | 384   | 240   |
| RACK MATERIAL             | COC/PS  | COC/PS  | PP  |
| VOLUME MARKER (JACKET) A  |   |   | 150ul   |
| VOUME MARKER (JACKET) B   |   |   | 50ul  |

N.B. Working volume of each tube is calculated to ensure that the internal pressure does not exceed 2 bar for septum sealed tubes (4 bar for tubes sealed with screw caps) when sample is frozen.



**Tubes in Range**

**96 well format polypropylene tubes with internal thread screw top.**

Coding options: 2D barcode, alphanumeric markings or uncoded.

Suitable for use with either screw caps or TPE septum caps.

0.5ml, 1.0ml and 1.4ml sizes.



**96 well format polypropylene tubes with internal thread screw top and jacket.**

2D barcode on base. Human readable ID, linear barcode and volumetric markings on jacket.

Suitable for use with either screw caps or TPE septum caps.

0.75ml and 1.3ml sizes.



**96 well format polypropylene tubes with external thread screw top and jacket.**

2D barcode on tube base.

Additional 2D barcode and human readable ID on side available.

Suitable for use with screw caps only.

0.3ml size.

0.7ml and 1.0ml sizes are available soon.



**Tube Features**

**TwistLock**

This feature prevents tubes rotating within the rack so enables automated capping and decapping of screw caps.

TwistLock is provided as standard, however some racks are available without TwistLock for use on specific automated systems.

**LidLock**

Racks fitted with our LidLock latch are designed to withstand "drop test" for added sample security.



**Ideal For Cold Storage**

Temperature range -196 (with screw cap) to 110°C.

Suitable for cryogenic storage, but not for submersion in liquid phase Nitrogen. Can be autoclaved.

**Automation Friendly**

Compatible with the XSD-96 range of tube capper/decappers to automatically remove and recap screw caps from racked tubes.

TwistLock feature prevents tubes rotating within the rack during capping or decapping.

All FluidX tubes are free from DNase, RNase, DNA and endotoxins.

Sterilisation is achieved by irradiation conducted in accordance with EN552, ISO11137 and SI/AAMI/ST31/ST32 standards.

See page 38 for more information

**TubeLock offers dual-function capability**

Racks with the TubeLock feature offer two stable tube positions, either locked or non-locked. TubeLock is activated by applying pressure to tube top, clicks the tube into place.

Racked tubes can be ordered either pre-locked or non-locked.

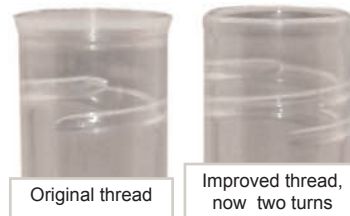


TubeLock activated, tubes locked into position

TubeLock not activated, tubes unlocked

**Excellent Sealing Ability**

Tubes work equally well with either TPE septum caps or screw caps. Improved internal thread provides a more secure seal when using screw caps.



Original thread

Improved thread, now two turns

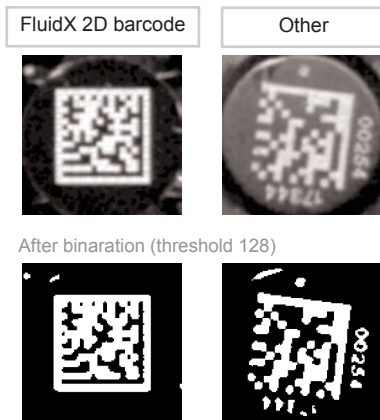
**Superior 2D Datamatrix Code Quality**

Our 2D barcoded tubes are now easier to read, even in harsh conditions or when damaged.

Black on white 2D Datamatrix barcode with improved white quiet zone. FluidX offer one of the few ranges that adheres fully to the ECC200 standard. Barcode is generated using latest and most sophisticated error correction methods.

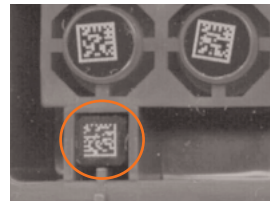
New generation, high quality, permanent laser etching system provides sharper detail.

100% QC. Every tube is checked to ensure they meet our exacting standards for readability.



**Automatic Rack Orientation, more secure tracking**

FluidX racks can be supplied with a unique 2Dbarcode identifier.



Can be read at the same time as the tube 2D barcode when using a FluidX whole rack reader to provide automatic rack orientation and more secure sample tracking.

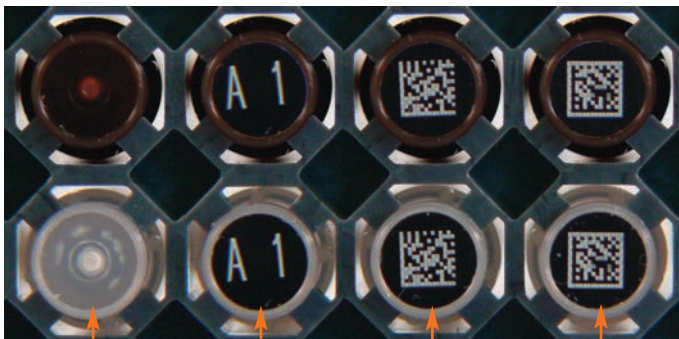
**Direct Laser Etching Of Racks**

Cutout windows on the rack sides allow the linear barcode to be read more easily. Linear barcodes can be laser etched directly onto the rack.



**Choice of coding options**

|                                     |   |
|-------------------------------------|---|
| <b>Non-coded (naked) tubes</b>      | Simply come as they are.  |
| <b>Alphanumeric coded tubes</b>     | A high contrast, clearly marked, large alpha numeric position designator.<br>Created using the same laser technique as our 2D barcoded tubes. |
| <b>2D Barcoded (black on white)</b> | Standard 2D barcoded option.<br>Enhanced datamatrix 2D barcode with integrated quiet zone for superior reading.                               |
| <b>2D Barcoded (white on black)</b> | This code type is a custom order which is compatible with legacy readers and associated products.   |



Naked tubes      Alphanumeric tubes      2D barcoded tubes (white on black)      2D barcoded tubes (black on white)

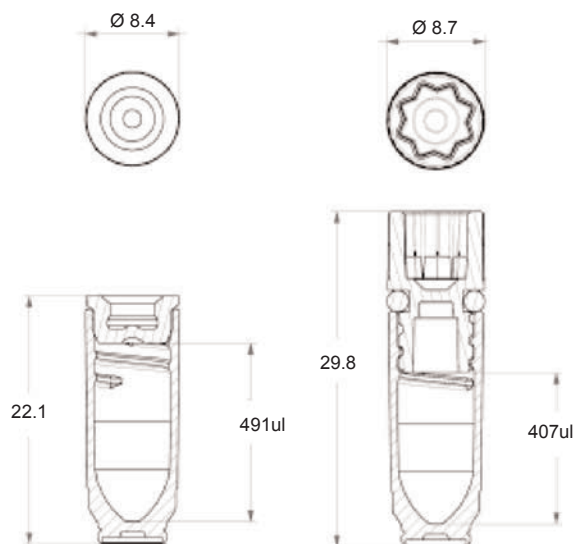


0.5ml polypropylene tube with internal thread



Specifications

|                            |  |
|----------------------------|--|
| Working volume             | 0.27ml (with screw cap)  |
| Tube height                | 21.0mm   |
| Tube height with screw cap | 29.8mm   |
| Inner diameter             | 6.8mm  |
| Outer diameter             | 8.4mm  |
| Centre to centre           | 9.0mm  |
| Min Temp                   | -196°C<br>Not for use in liquid phase Nitrogen.<br>-80°C with TPE septum cap |



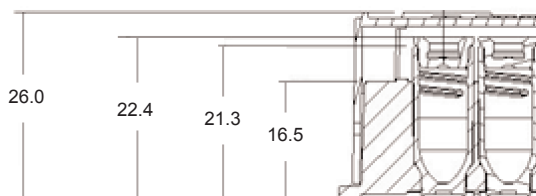
**WARNING**

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.

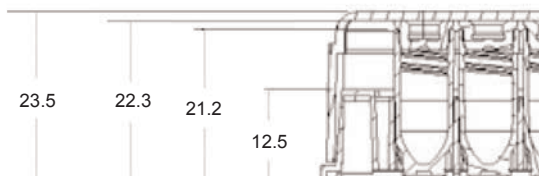
Ordering Information

| Catalog No    | Description  |
|---------------|--|
| 66-32040      | 0.5ml non-coded, internal thread screw top tubes. V-bottom, TwistLock feature. No cap. Bulk, 960/box   |
| 66-32040-Z6   | 0.5ml non-coded, internal thread screw top tubes. V-bottom, TwistLock feature. Precapped with orange screw cap. Bulk, 960/box  |
| 66-32041      | 0.5ml non-coded, internal thread screw top tubes. No cap. Supplied in 96 well format low base rack, low profile lid, with LidLock and TwistLock (cat no 66-51003). 10/box.   |
| 66-32041-Z6   | 0.5ml non-coded, internal thread screw top tubes. Precapped with orange screw cap. Supplied in 96 well format low base rack, standard lid, with LidLock and TwistLock (cat no 66-51004). 10/box.                       |
| 66-42049      | 0.5ml alphanumeric printed, internal thread screw top tubes. No cap. Supplied in 96 well format low base rack, low profile lid, with LidLock and TwistLock (cat no 66-51003). 10/box.                                  |
| 66-42049-L    | 0.5ml alphanumeric printed, internal thread screw top tubes. Supplied in 96 well format low base rack with TubeLock, TwistLock and low profile non-locking lid (cat no 66-51013). 10/box.                              |
| 66-42049-Z6   | 0.5ml alphanumeric printed, internal thread screw top tubes. Precapped with orange screw cap. Supplied in 96 well format low base rack, standard lid, with LidLock and TwistLock (cat no 66-51004). 10/box.            |
| 66-42049-Z6-L | 0.5ml alphanumeric printed, internal thread screw top tubes. Precapped with orange screw cap. Supplied in 96 well format low base rack with TubeLock, TwistLock and non-locking lid (cat no 66-51014). 10/box.         |
| 66-52326      | 0.5ml EasyTrack 2D barcoded internal thread screw top tubes. No cap. Bulk, 960/box.  |
| 66-52325      | 0.5ml EasyTrack 2D barcoded internal thread screw top tubes. Supplied in 96 well format low base rack, standard lid, with LidLock and TwistLock (cat no 66-51004). 10/box.   |
| 66-52325-1    | 0.5ml EasyTrack 2D barcoded internal thread screw top tubes. Supplied in 96 well format low base rack, low profile lid, with LidLock and TwistLock (cat no 66-51003). Lid suitable for septum seals only. 10/box.      |
| 66-52325-2    | 0.5ml EasyTrack 2D barcoded internal thread TTP compatible tubes. Supplied in 96 well format low base rack, low profile lid, with LidLock and TwistLock (cat no 66-51003). Lid suitable for septum seals only. 10/box. |
| 66-52325-L    | 0.5ml EasyTrack 2D barcoded internal thread screw top tubes. Supplied in 96 well format low base rack with TubeLock, TwistLock and low profile non-locking lid (cat no 66-51013). 10/box.                              |
| 66-52326-Z6   | 0.5ml EasyTrack 2D barcoded internal thread screw top tubes. Precapped with orange screw caps. Bulk, 960/box.  |
| 66-52325-Z6   | 0.5ml EasyTrack 2D barcoded internal thread screw top tubes. Precapped with orange screw caps. Supplied in 96 well format low base rack, standard lid, with LidLock and TwistLock (cat no 66-51004). 10/box.           |
| 66-52325-Z6-L | 0.5ml EasyTrack 2D barcoded internal thread screw top tubes. Precapped with orange screw caps. Supplied in 96 well format low base rack with TubeLock, TwistLock and non-locking lid (cat no 66-51014). 10/box.        |
| 66-51003      | 96 well format low base rack, low profile lid, with LidLock and TwistLock. 10/box. For use with 0.5ml tubes with septum TPE caps.  |
| 66-51004      | 96 well format low base rack, standard lid, with LidLock and TwistLock. For use with 0.5ml tubes with septum TPE caps, 0.5ml tubes with screw caps, 0.75ml tubes with jacket and septum TPE caps                       |
| 66-51013      | 96 well format low base rack with TubeLock, TwistLock and low profile non-locking lid. 10/box. For use with 0.5ml tubes with septum TPE caps.  |
| 66-51014      | 96 well format low base rack with TubeLock, TwistLock and non-locking lid. 10/box. For use with 0.5ml tubes with septum TPE caps, 0.5ml tubes with screw caps.   |

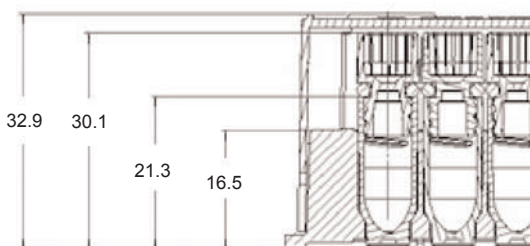
0.5ml polypropylene tube with internal thread cont.



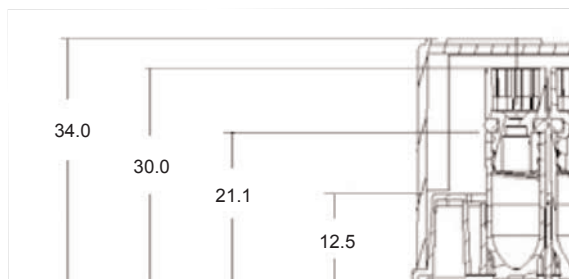
Cat No 66-51003  
Use with TPE caps only.  
Available with 2D rack ID option



Cat No 66-51013  
Slip lid  
Use with TPE caps only.



Cat No 66-51004  
Available with 2D rack ID option



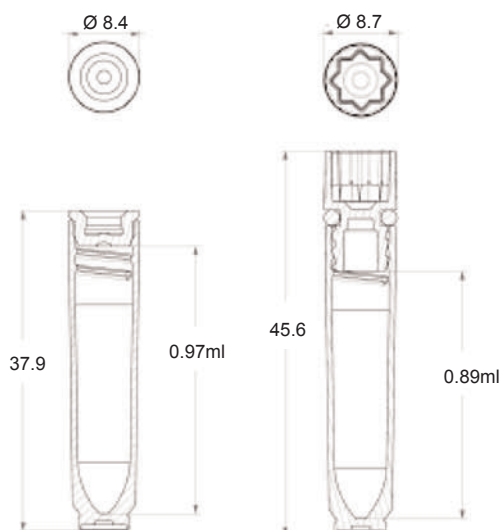
Cat No 66-51014  
Slip Lid



1.0ml polypropylene tube with internal thread

Specifications

|                            |   |
|----------------------------|---|
| Working volume             | 0.73ml (with screw cap)   |
| Tube height                | 36.6mm  |
| Tube height with screw cap | 45.6mm  |
| Inner diameter             | 6.8mm   |
| Outer diameter             | 8.4mm   |
| Centre to centre           | 9.0mm   |
| Min Temp                   | -196°C Not for use in liquid phase Nitrogen.<br>-80°C with TPE septum cap |

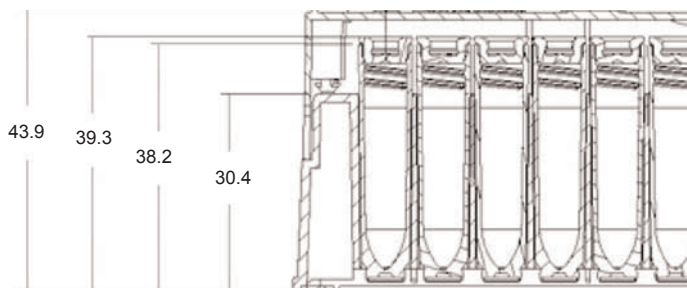


1.0ml polypropylene tube with internal thread cont.

Ordering Information

| Catalog No    | Description   |
|---------------|---|
| 66-32033      | 1.0ml non-coded, internal thread screw top tubes. V-bottom, TwistLock feature. No cap. Bulk, 960/box  |
| 66-32033-Z6   | 1.0ml non-coded, internal thread screw top tubes. V-bottom, TwistLock feature. Precapped with orange screw cap. Bulk, 960/box   |
| 66-32034      | 1.0ml non-coded, internal thread screw top tubes. No cap. Supplied in 96 well format high base rack, with TwistLock and LidLock (cat no 66-61002). 10/box.  |
| 66-32034-Z6   | 1.0ml non-coded, internal thread screw top tubes. Precapped with orange screw cap. Supplied in 96 well format high base rack, with TwistLock and LidLock (cat no 66-61002). 10/box.                       |
| 66-32034-L    | 1.0ml non-coded, internal thread screw top tubes. No cap. screw cap. Supplied in 96 well format high base rack, with TubeLock, TwistLock and LidLock (cat no 66-51016). 10/box.                           |
| 66-32034-Z6-L | 1.0ml non-coded, internal thread screw top tubes. Precapped with orange screw cap. Supplied in 96 well format high base rack, with TubeLock, TwistLock and LidLock (cat no 66-51016). 10/box.             |
| 66-42044      | 1.0ml alphanumeric printed, internal thread screw top tubes. Supplied in 96 well format high base rack, with TwistLock and LidLock (cat no 66-61002). 10/box.   |
| 66-42044-Z6   | 1.0ml alphanumeric printed, internal thread screw top tubes. Precapped with orange screw caps. Supplied in 96 well format high base rack, with TwistLock and LidLock (cat no 66-61002). 10/box.           |
| 66-42044-L    | 1.0ml alphanumeric printed, internal thread screw top tubes. Supplied in 96 well format high base rack, with TubeLock, TwistLock and LidLock (cat no 66-51016). 10/box.                                   |
| 66-42044-Z6-L | 1.0ml alphanumeric printed, internal thread screw top tubes. Precapped with orange screw caps. Supplied in 96 well format high base rack, with TubeLock, TwistLock and LidLock (cat no 66-51016). 10/box. |

| Catalog No    | Description   |
|---------------|---|
| 66-52318      | 1.0ml EasyTrack 2D barcoded internal thread screw top tubes. No cap. Bulk, 960/box.   |
| 66-52318-Z6   | 1.0ml EasyTrack 2D barcoded internal thread screw top tubes. Precapped with orange screw cap. Bulk, 960/box.  |
| 66-52317      | 1.0ml EasyTrack 2D barcoded internal thread screw top tubes. Supplied in 96 well format high base rack, with TwistLock and LidLock (cat no 66-61001). 10/box. For TPE cap use only.                       |
| 66-52319      | 1.0ml EasyTrack 2D barcoded internal thread screw top tubes. Supplied in 96 well format high base rack, with TwistLock and LidLock (cat no 66-61002). 10/box.   |
| 66-52319-Z6   | 1.0ml EasyTrack 2D barcoded internal thread screw top tubes. Precapped with orange screw caps. Supplied in 96 well format high base rack, with TwistLock and LidLock (cat no 66-61002). 10/box.           |
| 66-52317-L    | 1.0ml EasyTrack 2D barcoded internal thread screw top tubes. Supplied in 96 well format high base rack, with TubeLock, TwistLock and LidLock (cat no 66-51000). 10/box. For TPE cap use only.             |
| 66-52319-L    | 1.0ml EasyTrack 2D barcoded internal thread screw top tubes. Supplied in 96 well format high base rack, with TubeLock, TwistLock and LidLock (cat no 66-51016). 10/box.                                   |
| 66-52319-Z6-L | 1.0ml EasyTrack 2D barcoded internal thread screw top tubes. Precapped with orange screw caps. Supplied in 96 well format high base rack, with TubeLock, TwistLock and LidLock (cat no 66-51016). 10/box. |
| 66-61001      | 96 well format high base rack, with TwistLock and LidLock, (no TubeLock) 10/box. For use with 1.0ml tubes with Septum TPE Caps and AirFilm seals  |
| 66-61002      | Supplied in 96 well format high base rack, with TwistLock and LidLock. 10/box. For use with 1.0ml tubes with screw caps, 1.4ml tubes with septum TPE caps and AirFilm seals                               |
| 66-51000      | 96 well format high base rack, with TubeLock, TwistLock and LidLock. 10/box. For use with 1.0ml tubes with septum TPE caps.   |
| 66-51001      | 96 well format high base rack, with TwistLock and LidLock. 10/box. For use with 1.0ml tubes with septum TPE caps, 1.0ml tubes with screw caps, 1.4ml tubes with septum caps.                              |
| 66-51016      | 96 well format high base rack, with TubeLock, TwistLock and LidLock. 10/box. For use with 1.0ml tubes with septum TPE caps, 1.0ml tubes with screw caps, 1.4ml tubes with septum caps.                    |



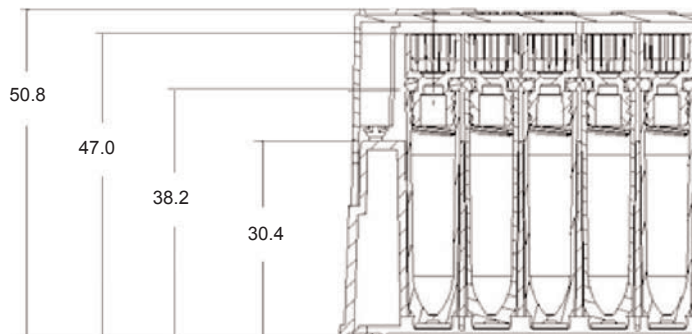
Cat No 66-51000  
With TubeLock

Cat No : 66-61001  
No TubeLock, 2D Rack ID option



Optional

All measurements in mm



Cat No : 66-51016  
With TubeLock

Cat No : 66-61002  
No TubeLock, 2D Rack ID option



Optional

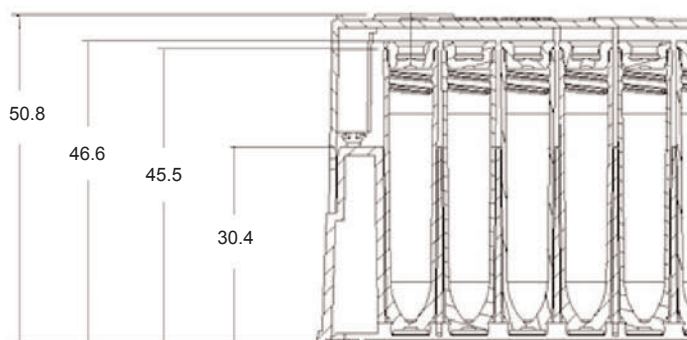
**WARNING**

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.

1.4ml polypropylene tube with internal thread

Specifications

|                            |  |
|----------------------------|--|
| Working volume             | 0.97ml (with screw cap)  |
| Tube height                | 44.1mm   |
| Tube height with screw cap | 52.9mm   |
| Inner diameter             | 6.8mm  |
| Outer diameter             | 8.4mm  |
| Centre to centre           | 9.0mm  |
| Min Temp                   | -196°C<br>Not for use in liquid phase Nitrogen.<br>-80°C with TPE septum cap |

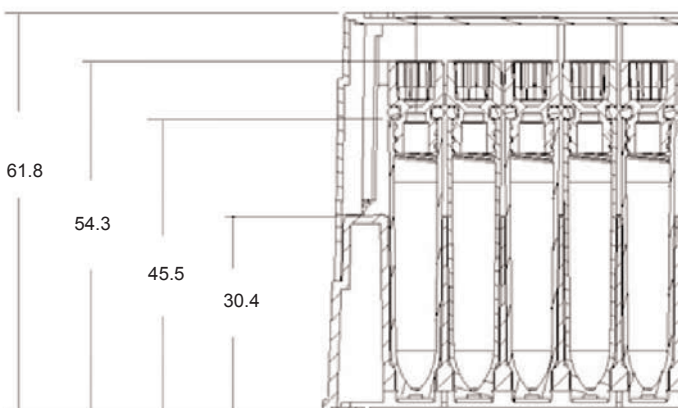
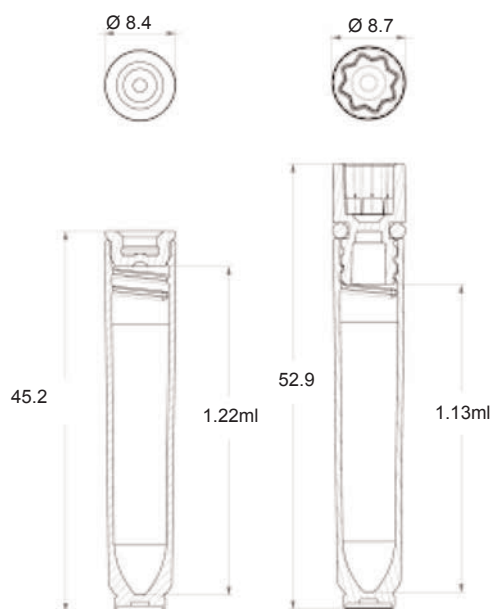


Cat No : 66-51016  
With TubeLock



Optional

Cat No : 66-61002  
No TubeLock, 2D Rack ID option



Cat No : 66-51017  
With TubeLock



Optional

Cat No : 66-61003  
No TubeLock, 2D Rack ID option



## 1.4ml polypropylene tube with internal thread cont.

## Ordering Information

| Catalog No    | Description  |
|---------------|--|
| 66-32062      | 1.4ml non-coded, internal thread screw top tubes. Uncapped. Bulk, 960/box.   |
| 66-32062-Z6   | 1.4ml non-coded, internal thread screw top tubes. Precapped with orange screw cap. Bulk, box/960   |
| 66-32042      | 1.4ml non-coded, internal thread screw top tubes. Supplied in 96 well format high base rack with LidLock and TwistLock (cat no 66-61002). 10/box. Lid suitable for use with TPE caps only.                                   |
| 66-32043      | 1.4ml non-coded, internal thread screw top tubes. Supplied in 96 well format high base rack with LidLock and TwistLock (cat no 66-61003). 10/box. Lid suitable for use with screw caps and TPE caps.                         |
| 66-32043-Z6   | 1.4ml non-coded, internal thread screw top tubes. Precapped with orange screw cap. Supplied in 96 well format high base rack with LidLock and TwistLock (cat no 66-61003). 10/box.   |
| 66-32042-L    | 1.4ml non-coded, internal thread screw top tubes. Supplied in 96 well format high base rack with TubeLock, TwistLock and LidLock (cat no 66-51016). 10/box. Lid suitable for use with TPE caps only.                         |
| 66-32043-L    | 1.4ml non-coded, internal thread screw top tubes. Supplied in 96 well format high base rack with TubeLock, TwistLock and LidLock with Tall lid (cat no 66-51017). 10/box. Lid suitable for use with screw caps and TPE caps. |
| 66-32043-Z6-L | 1.4ml non-coded, internal thread screw top tubes. Precapped with orange screw caps. Supplied in 96 well format high base rack with TubeLock, TwistLock and LidLock with Tall lid. (cat no 66-51017). 10/box.                 |
| 66-42047      | 1.4ml alphanumeric printed, internal thread screw top tubes. Supplied in 96 well format high base rack with LidLock and TwistLock (cat no 66-61002). 10/box. Lid suitable for use with TPE caps only.                        |
| 66-42063      | 1.4ml alphanumeric printed, internal thread screw top tubes. Supplied in 96 well format high base rack with LidLock and TwistLock (cat no 66-61003). 10/box. Lid suitable for use with screw caps and TPE caps.              |
| 66-42063-Z6   | 1.4ml alphanumeric printed, internal thread screw top tubes. Precapped with orange screw caps. Supplied in 96 well format high base rack with LidLock and TwistLock (cat no 66-61003). 10/box.                               |
| 66-42047-L    | 1.4ml alphanumeric printed, internal thread screw top tubes. Supplied in 96 well format high base rack with TubeLock, TwistLock and LidLock (cat no 66-51016). 10/box. Lid suitable for use with TPE caps only.              |
| 66-42063-L    | 1.4ml alphanumeric printed, internal thread screw top tubes. Supplied in 96 well format high base rack with TubeLock, TwistLock and LidLock with Tall Lid (cat no 66-51017). 10/box.   |
| 66-42063-Z6-L | 1.4ml alphanumeric printed, internal thread screw top tubes. Precapped with orange screw caps. Supplied in 96 well format high base rack with TubeLock, TwistLock and LidLock with Tall Lid (cat no 66-51017). 10/box.       |



| Catalog No    | Description   |
|---------------|---|
| 66-52345      | 1.4ml EasyTrack 2D barcoded internal thread screw top tubes. No cap. Bulk, 960/box.   |
| 66-52345-Z6   | 1.4ml EasyTrack 2D barcoded internal thread screw top tubes. Precapped with orange screw cap. Bulk, 960/box.  |
| 66-52321      | 1.4ml EasyTrack 2D barcoded internal thread screw top tubes. Supplied in 96 well format high base rack with LidLock and TwistLock (cat no 66-61002). 10/box. Lid suitable for use with TPE caps only.   |
| 66-52330      | 1.4ml EasyTrack 2D barcoded internal thread screw top tubes. Supplied in 96 well format high base rack with LidLock and TwistLock (cat no 66-61003). 10/box. Lid suitable for use with screw caps and TPE caps.   |
| 66-52330-Z6   | 1.4ml EasyTrack 2D barcoded internal thread screw top tubes. Precapped with orange screw caps. Supplied in 96 well format high base rack with LidLock and TwistLock (cat no 66-61003). 10/box.  |
| 66-52321-L    | 1.4ml EasyTrack 2D barcoded internal thread screw top tubes. Supplied in 96 well format high base rack with TubeLock, TwistLock and LidLock (cat no 66-51016). 10/box. Lid suitable for use with TPE caps only.   |
| 66-52330-L    | 1.4ml EasyTrack 2D barcoded internal thread screw top tubes. Supplied in 96 well format high base rack with TubeLock, TwistLock and LidLock with Tall Lid (cat no 66-51017). 10/box.  |
| 66-52330-Z6-L | 1.4ml EasyTrack 2D barcoded internal thread screw top tubes. Precapped with orange screw caps. Supplied in 96 well format high base rack with TubeLock, TwistLock and LidLock, with Tall Lid (cat no 66-51017). 10/box.   |
| 66-52331-Z6   | 1.4ml EasyTrack 2D barcoded internal thread screw top tubes. Precapped with orange screw caps. Supplied in 96 well format high base rack with TwistLock and LidLock, with Tall Lid (cat no 66-51018). NB. Rack designed for use with jacket tubes, with loose fit lid for tube labelling. 10/box. |
| 66-61002      | 96 well format high base rack with TwistLock, LidLock, standard profile lid. 10/box. For use with 1.0ml tubes with screw caps, 1.4ml tubes with septum TPE caps and AirFilm seals.  |
| 66-61003      | 96 well format high base rack with TwistLock, LidLock (no TubeLock) with tall profile lid. 10/box. For use with 1.4ml tubes with screw caps.  |
| 66-51001      | 96 well format high base rack with TwistLock only. 10/box. For use with 1.0ml tubes with septum TPE caps, 1.0ml tubes with screw caps, 1.4ml tubes with septum caps.  |
| 66-51016      | 96 well format high base rack with TwistLock, TubeLock and LidLock. 10/box. For use with 1.0ml tubes with septum TPE caps, 1.0ml tubes with screw caps, 1.4ml tubes with septum caps.   |
| 66-51012      | 96 well format high base rack with TwistLock and Tall non-locking polycarbonate lid. 10/box. For use with 1.4ml tubes with screw caps.  |
| 66-51017      | 96 well format high base rack with TwistLock, TubeLock and LidLock. Tall profile lid. 10/box. For use with 1.4ml tubes with screw caps.   |

**0.3ml polypropylene tube with external thread and jacket**

Uses a third less freezer space than standard 0.5ml storage tubes. Ideal for storing DNA and RNA (between 50ul to 200ul).

**Space saving**

FluidX 0.3ml tubes are stored in a low profile 96 well format rack with a height of just 22mm.

The only 96 well format tube available with external thread screw cap to maximise the internal volume but keep tube height to a minimum.

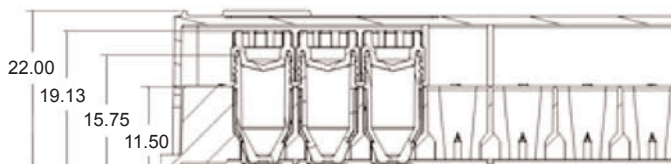
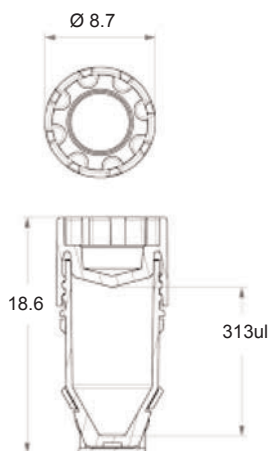
**High quality seal**

No silicone seal is used which eliminates the risk of overtightening, a deforming compression seal is used instead which achieves a more effective seal.

Cap and tube are made from the same material to prevent differential expansion during freeze-thaw cycles.

**Specifications**

|                            |  |
|----------------------------|--|
| Working volume             | 0.26ml   |
| Tube height                | 15.3mm   |
| Tube height with screw cap | 18.6mm   |
| Inner diameter             | 6.35mm   |
| Outer diameter             | 8.2mm without cap<br>8.7mm with cap            |
| Rack height with lid       | 22mm   |
| Min Temp                   | -196°C<br>Not for use in liquid phase Nitrogen |



Cat No : 68-0300-20  
2D rack ID option available.



**Ordering Information**

| Catalog No | Description  |
|------------|--|
| 68-0300-00 | 0.3ml 2D barcoded external thread screw top tubes. No cap. Bulk, 960/box.  |
| 68-0300-10 | 0.3ml 2D barcoded external thread screw top tubes. Precapped with screw cap. Bulk, 960/box.  |
| 68-0300-01 | 0.3ml 2D barcoded external thread screw top tubes. No cap. Supplied in 96 well format low base rack with LidLock and TwistLock. Low profile lid (cat no 68-0300-20). 10 racks/box.   |
| 68-0300-11 | 0.3ml 2D barcoded external thread screw top tubes. Precapped with screw cap. Supplied in 96 well format low base rack with LidLock and TwistLock. Low profile lid (cat no 68-0300-20). 10 racks/box.                                       |
| 68-0302-00 | 0.3ml 2D barcoded external thread screw top tubes. Additional 2D barcode on tube side. No cap. Bulk, 960/box.  |
| 68-0302-10 | 0.3ml 2D barcoded external thread screw top tubes. Additional 2D barcode on tube side. Precapped with screw caps. Bulk, 960/box.   |
| 68-0302-01 | 0.3ml 2D barcoded external thread screw top tubes. Additional 2D barcode on tube side. No cap. Supplied in 96 well format low base rack with LidLock and TwistLock. Low profile lid, (cat no 68-0300-20). 10 racks/box.                    |
| 68-0302-11 | 0.3ml 2D barcoded external thread screw top tubes. Additional 2D barcode on tube side. Precapped with screw caps. Supplied in 96 well format low base rack with LidLock and TwistLock. Low profile lid. (cat no 68-0300-20). 10 racks/box. |
| 68-0300-20 | 96 well format low base rack with LidLock and TwistLock. Low profile lid. 10 racks/box. For use with 0.3ml external thread screw top tubes.  |

**WARNING**

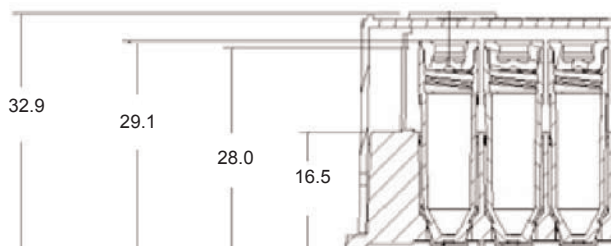
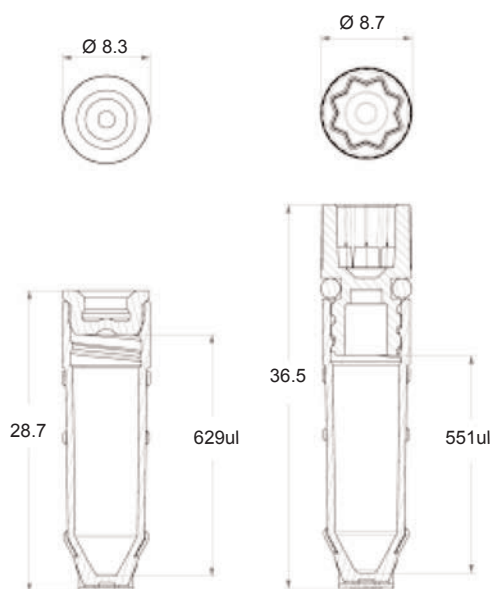
Do not store any FluidX tubes in liquid phase Nitrogen. Ingress of Nitrogen into the tube can occur causing the tube to rupture when taken out of storage. May cause injury and loss of tube contents.



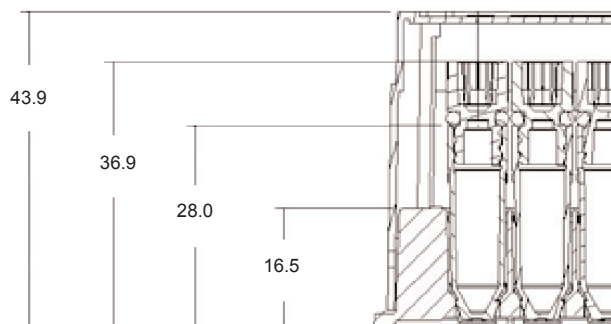
0.75ml polypropylene tube with internal thread and jacket

Specifications

|                            |  |
|----------------------------|--|
| Working volume             | 0.5ml (with screw cap)                         |
| Tube height                | 27.6mm   |
| Tube height with screw cap | 36.5mm   |
| Inner diameter             | 6.5mm  |
| Outer diameter             | 8.3mm  |
| Centre to centre           | 9.0mm  |
| Min Temp                   | -196°C<br>Not for use in liquid phase Nitrogen |



Cat No : 66-51004  
For TPE septum cap use  
2D rack ID option available.



Cat No : 66-51015  
For screw cap use  
2D rack ID option available.



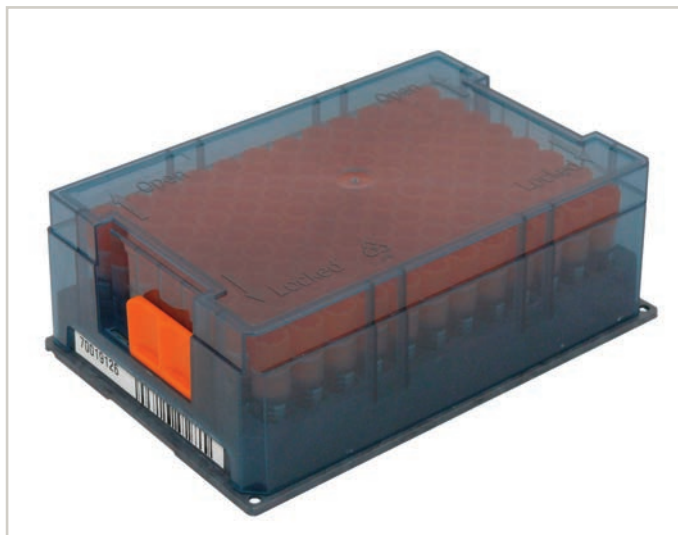
**WARNING**

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.

## 0.75ml polypropylene tube with internal thread and jacket cont.

## Ordering Information

| Catalog No | Description   |
|------------|---|
| 67-0752-00 | 0.75ml 2D barcoded internal thread screw top tube with jacket. No cap. 960/box.   |
| 67-0752-10 | 0.75ml 2D barcoded internal thread screw top tube with jacket. Precapped with screw cap. Bulk, 960/box.   |
| 67-0752-01 | 0.75ml 2D barcoded internal thread screw top tube with jacket. No cap. Supplied in 96 well format low base rack with TwistLock and LidLock (cat no 66-51015). 10/box.   |
| 67-0752-02 | 0.75ml 2D barcoded internal thread screw top tube with jacket. No cap. Supplied in 96 well format low base rack with TwistLock and LidLock (cat no 66-51004)<br>For use with TPE caps only.   |
| 67-0752-11 | 0.75ml 2D barcoded internal thread screw top tube with jacket. Precapped with screw caps.<br>Supplied in 96 well format low base rack with TwistLock and LidLock (cat no 66-51015). 10/box.   |
| 67-0750-00 | 0.75ml 2D barcoded internal thread screw top tube with jacket. 1D linear and human readable tube ID on side. No cap. 960/box.   |
| 67-0750-10 | 0.75ml 2D barcoded internal thread screw top tube with jacket. 1D linear and human readable tube ID on side.<br>Precapped with screw caps. Bulk, 960/box.   |
| 67-0750-01 | 0.75ml 2D barcoded internal thread screw top tube with jacket. 1D linear and human readable tube ID on side. No cap.<br>Supplied in 96 well format low base rack with TwistLock and LidLock (cat no 66-51015). 10/box.  |
| 67-0750-02 | 0.75ml 2D barcoded internal thread screw top tube with jacket. 1D linear and human readable tube ID on side.<br>No cap. Supplied in 96 well format low base rack with TwistLock and LidLock (cat no 66-51004)<br>For use with TPE caps only.  |
| 67-0750-11 | 0.75ml 2D barcoded internal thread screw top tube with jacket. 1D linear and human readable tube ID on side. Precapped with screw caps. Supplied in 96 well format low base rack with TwistLock and LidLock (cat no 66-51015). 10/box.  |
| 67-0750-03 | 0.75ml 2D barcoded internal thread screw top tube with jacket. 1D linear and human readable tube ID on side. No cap.<br>Supplied in 96 well format high base rack with TwistLock and LidLock with low profile lid (cat no 66-51024). For use with TPE septum caps and AirFilm seals only. 10/box. |
| 67-0750-04 | 0.75ml 2D barcoded internal thread screw top tube with jacket. 1D linear and human readable tube ID on side. No cap.<br>Supplied in 96 well format high base rack with TwistLock and LidLock (cat no 66-51025). For use with screw cap only. 10/box.  |
| 67-0750-14 | 0.75ml 2D barcoded internal thread screw top tube with jacket. 1D linear and human readable tube ID on side. Precapped with screw caps. Supplied in 96 well format high base rack with TwistLock and LidLock (cat no 66-51025).<br>For use with screw cap only. 10/box.                           |
| 66-51004   | 96 well format low base rack with LidLock and TwistLock. 2D rack ID option available. 10/box. For use with 0.5ml tubes with septum TPE caps, 0.5ml tubes with screw caps, 0.75ml jacket tubes with septum TPE caps.   |
| 66-51015   | 96 well format low base rack with LidLock and TwistLock. Tall lid. 2D rack ID option available. 10/box.<br>For use with 0.75ml jacket tubes with screw caps.  |
| 66-51024   | 96 well format high base rack with LidLock and TwistLock. 10/box. For use with 0.75ml jacket tubes with septum TPE caps.  |
| 66-51025   | 96 well format high base rack with LidLock and TwistLock. 10/box. For use with 0.75ml jacket tubes with screw caps.   |



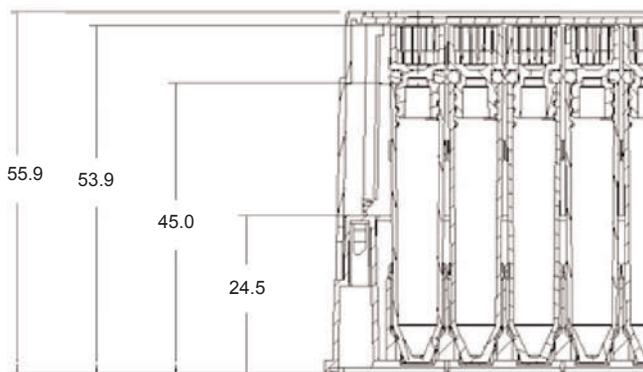
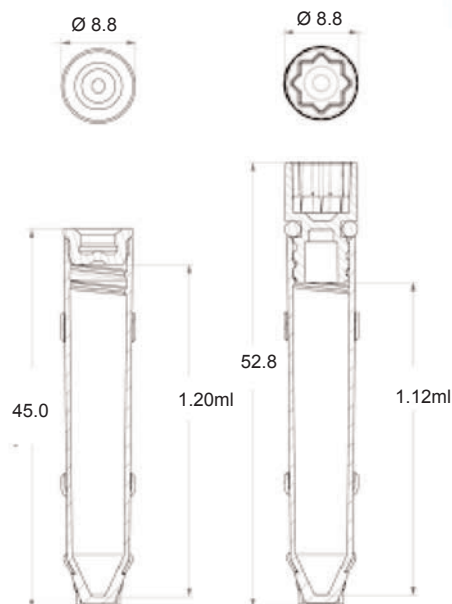
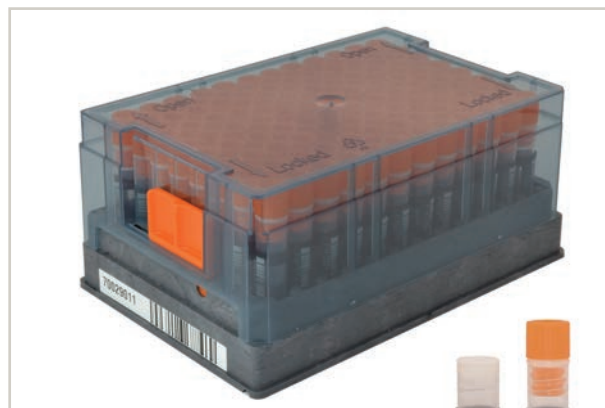
1.3ml polypropylene tube with internal thread and jacket

Specifications

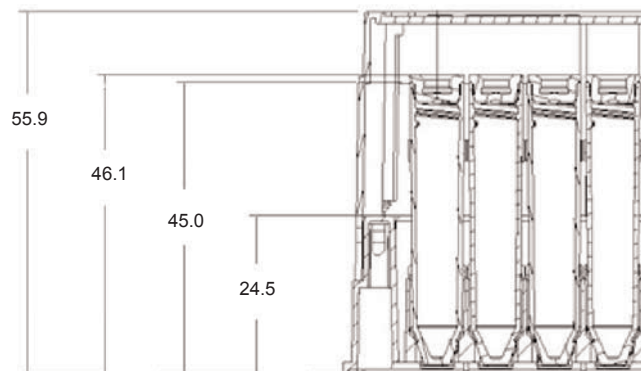
|                            |  |
|----------------------------|--|
| Working volume             | 0.95ml (with screw cap)                        |
| Tube height                | 44.0mm   |
| Tube height with screw cap | 52.8mm   |
| Inner diameter             | 6.8mm  |
| Outer diameter             | 8.8mm  |
| Centre to centre           | 9.0mm  |
| Min Temp                   | -196°C<br>Not for use in liquid phase Nitrogen |

Ordering Information

| Catalog No | Description   |
|------------|---|
| 67-1400-00 | 1.3ml 2D barcoded internal thread screw top tube with jacket. 1D linear and human readable tube ID on side. No cap. Bulk, box/960.  |
| 67-1400-10 | 1.3ml 2D barcoded internal thread screw top tube with jacket. 1D linear and human readable tube ID on side. Precapped with screw cap. Bulk, box/960.  |
| 67-1400-01 | 1.3ml 2D barcoded internal thread screw top tube with jacket. 1D linear and human readable tube ID on side. No cap. Supplied in 96 well format high base rack with TwistLock and LidLock (cat no 66-51018). 10/box.                   |
| 67-1400-11 | 1.3ml 2D barcoded internal thread screw top tube with jacket. 1D linear and human readable tube ID on side. Precapped with screw cap. Supplied in 96 well format high base rack with TwistLock and LidLock (cat no 66-51018). 10/box. |
| 66-51018   | 96 well format high base rack with TwistLock and LidLock. 10/box. For use with 1.3ml jacket tube with septum TPE cap and 1.3ml jacket tube with screw cap   |



Cat No : 66-51018  
Tubes with screw cap  
2D rack ID option not available.



Cat No : 66-51018  
Tubes with TPE septum cap  
2D rack ID option not available.



**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.

**Tubes in Range**

**Cryo tubes**

High quality polypropylene tubes with 2D barcode and screw top.

Suitable for use in a wide range of applications including cryogenic sample storage. Tubes can be stored at temperatures as low as -196°C. (Not for submersion in liquid phase Nitrogen).

Available in 1ml, 1.5ml, 2ml, and 4ml sizes, with internal and external thread.

2ml cryo tubes are also available with a jacket which incorporates linear barcode and human readable ID.



**Large format polypropylene tubes**

2D barcoded polypropylene tubes with external thread and a jacket with linear barcode.

Available in 6ml and 10ml sizes.



**Glass tubes**

U-bottomed tubes within a protective screw capped jacket with 2D barcode, linear barcode and human readable ID.

A screw cap seals the glass tube using a silicone sealing film for added reliability.

A customised PTFE insert can be supplied for use with particularly aggressive chemicals.

Chemically inert, with low binding and low static properties, these tubes are ideal for dry compound storage, samples stored in DMSO and other caustic substances.

**Tissue sample tube**

A specifically-designed tissue sample tube is also available, with 2D barcode and external thread screw cap.



Available in 2ml, 4ml and 6ml sizes, with U- bottom.



**Superior Barcode Quality**

Easy to read, even in harsh conditions or when damaged.

Black on white 2D Datamatrix barcode with improved white quiet zone, FluidX offer one of the few ranges of storage tubes that adhere fully to the ECC200 standard.

Barcode is generated using the latest and most sophisticated error correction methods.

New generation, high quality, permanent laser etching system provides sharper detail.

100% QC. Every tube checked to ensure they meet our exacting standards for readability.

**Automation Friendly**

All our 24 and 48 well format tubes (except tissue sample tube) are compatible with the XSD-24 and XSD-48 automated screw capping/decapping systems which automatically remove and recap screw caps from racked tubes. The FluidX TwistLock feature prevents tubes rotating within the rack during the capping or decapping process.

N.B. Tubes sealed with TPE septum caps can be used with our XDC range of automated capper/decappers.

**Direct Laser Etching Of Racks**

Cutout windows on the rack sides allow the linear barcode to be read more easily.

Linear barcodes are laser etched directly onto the rack.



**Automatic Rack Orientation, more secure tracking**

Racks can be supplied with a unique 2D Datamatrix barcode identifier.

These are read simultaneously when using a FluidX whole rack 2D barcode reader to provide automatic rack orientation and more secure sample tracking.



Free from DNase, RNase, DNA and endotoxins.

Sterilisation is achieved by irradiation conducted in accordance with EN552, ISO11137 and SI/AAMI/ST31/ST32 standards

1ml, 1.5ml, 2ml and 4ml cryo tubes ideal for use in a wide variety of storage environments and applications, including cryogenic storage of samples in vapour phase liquid nitrogen.

**Temperature resistant**

Manufactured from high quality polypropylene, EasyTrack Cryo Tubes can be stored at temperatures as low as -196°C. Do not use in liquid phase Nitrogen.

**Secure tracking**

A unique 2D Datamatrix barcode is permanently adhered to the base of each tube. Combine with any FluidX single or whole rack 2D barcode readers to provide a quick and secure sample tracking system that can be easily integrated.

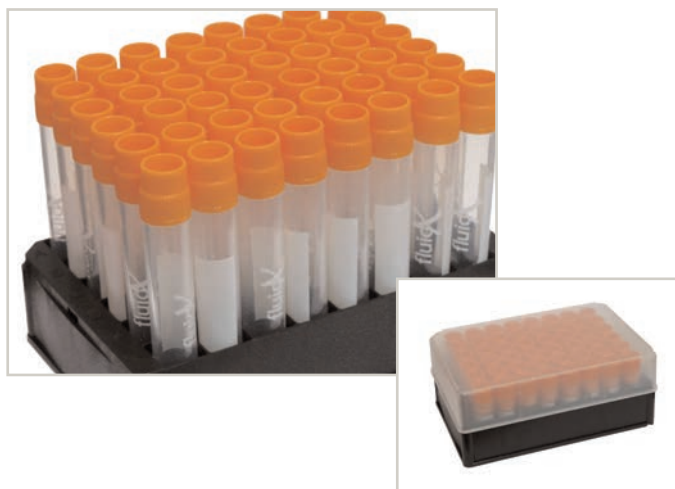


**Space saving and easy to use**

With a star-foot base the tubes will stand unaided and fit snugly inside the 48-position rack. Can be opened and closed with only one hand. SBS-format rack is stackable to save precious freezer space and can be re-used.

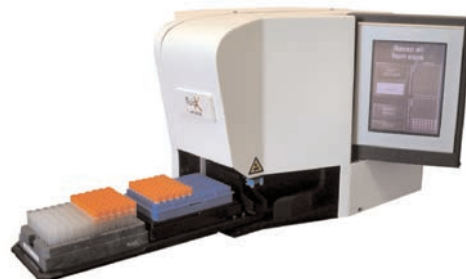
**Protective jacket**

2ml cryo tube is available with a jacket incorporating 2D barcode, linear barcode and human readable markings.



**Automation-friendly**

Compatible with the XSD-24 and XSD-48 automated tube capping and decapping systems.



**Quality control**

Each 2D barcoded tube is tested to ensure readability and uniqueness. Every lot is tested for leakage to ensure sample safety.

**Reduce risk of contamination**

With external, or internal threaded screw caps to reduce the risk of sample contamination.

As with all FluidX tubes, these cryo tubes are free of DNase, RNase, DNA and endotoxins.

Sterilisation is achieved by irradiation conducted in accordance with EN552, ISO11137 and ANSI/AAMI/ST31/ST32 standards.



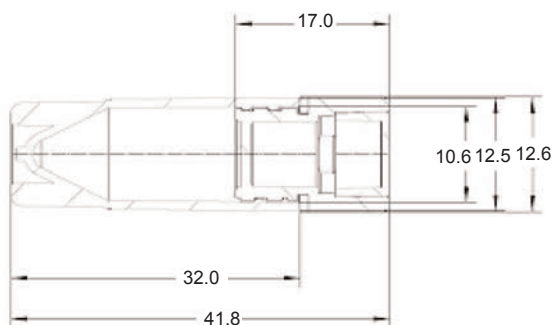
1ml and 2ml cryotubes with internal thread

1.5ml, 2ml and 4ml cryotubes with external thread

1ml cryo tube with internal thread

Specifications

|                            |  |
|----------------------------|--|
| Working volume             | 1.0ml  |
| Tube height                | 32.0mm   |
| Tube height with screw cap | 41.8mm   |
| Inner diameter             | 10.6mm   |
| Outer diameter             | 12.63mm  |
| Min Temp                   | -196°C<br>Not for use in liquid phase Nitrogen |



Ordering Information

| Catalog No | Description   |
|------------|---|
| 65-7503    | 1ml 2D barcoded cryo tube. Polypropylene, round bottom with internal thread. O-ring in screw cap. Star foot. Orange cap. Sterile. 100/bag               |
| 65-9451    | 48 well format rack with LidLock and TwistLock. Open bottom for reading on whole rack 2D barcode scanners For use with 1ml and 2ml cryo tubes. 10/case. |
| 65-1700    | 9x9 Polypropylene cryo rack. White with clear lid. 10/case. For use with all 1ml and 2ml cryo tubes.  |
| 65-1701    | 10x10 Polypropylene cryo rack. White with clear lid. 10/case. For use with 1ml and 2ml cryotubes with internal thread only.                             |
| 65-7552    | Internal thread screw caps, orange. Bulk. 1000/bag.   |

1.5ml polypropylene tube with external thread

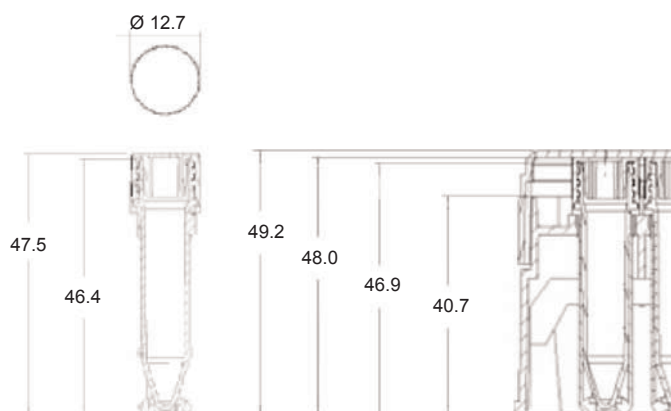
Specifications

|                            |  |
|----------------------------|--|
| Working volume             | 1.4ml  |
| Tube height                | 46.4mm   |
| Tube height with screw cap | 47.5mm   |
| Inner diameter             | 8.38mm   |
| Outer diameter             | 12.7mm   |
| Centre to centre           | 13.4mm   |
| Min Temp                   | -196°C<br>Not for use in liquid phase Nitrogen |



Ordering Information

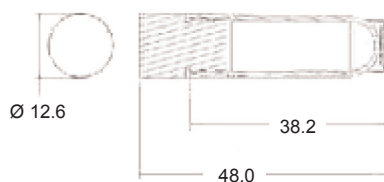
| Catalog No | Description  |
|------------|--|
| 65-9100    | 1.5ml 2D barcoded external thread screw top tubes with jacket. V bottom. For micro-centrifuge. Precapped with orange screw cap. Linear barcode and human readable code on tube side. Supplied in 48 well format rack (cat no 65-9141). 10 racks/box. |
| 65-9101    | 1.5ml 2D barcoded external thread screw top tubes with jacket. V bottom For micro-centrifuge. Precapped with orange screw cap. Linear barcode and human readable code on tube side. 480 tubes/box.   |
| 65-9102    | 1.5ml 2D barcoded external thread screw top tubes with jacket. V bottom For micro-centrifuge. no cap. Linear barcode and human readable code on tube side. 480 tubes/box.  |
| 65-9103    | Screw caps for 1.5ml external screw top tubes (cat nos 65-9100, 65-9101, 65-9102). Natural colour. 480/box   |
| 65-9141    | 48 well format disposable rack with TwistLock. Polycarbonate slip lid. Open design for 2D barcode reading. 10/box.   |



Cat No 65-9141  
With slip lid



2ml cryo tube with internal thread and jacket



Specifications

|                            |  |
|----------------------------|--|
| Working volume             | 1.8ml  |
| Tube height                | 38.2mm   |
| Tube height with screw cap | 48.0mm   |
| Inner diameter             | 10.6mm   |
| Outer diameter             | 12.6mm   |
| Min Temp                   | -196°C<br>Not for use in liquid phase Nitrogen |

Ordering Information

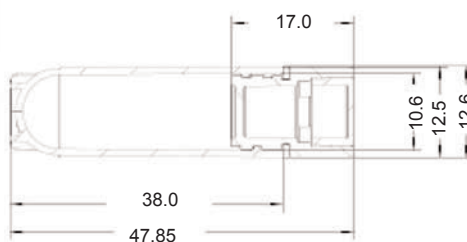
| Catalog No | Description  |
|------------|--|
| 65-7504    | 2ml 2D barcoded cryo tube with jacket. Polypropylene, round bottom with internal thread. Jacket incorporates linear barcode and human readable ID. Star foot. Uncapped. Sterile. 480/bag   |
| 65-7505    | 2ml 2D barcoded cryo tube with jacket. Polypropylene, round bottom with internal thread. Jacket incorporates linear barcode and human readable ID. Star foot. Precapped with orange screw cap. Sterile. 480/bag  |
| 65-7506    | 2ml 2D barcoded cryo tube with jacket. Polypropylene, round bottom with internal thread. Jacket incorporates linear barcode and human readable ID. Star foot. Uncapped. "Production sterile". 480/bag  |
| 65-7507    | 2ml 2D barcoded cryo tube with jacket. Polypropylene, round bottom with internal thread. Jacket incorporates linear barcode and human readable ID. Star foot. Precapped with orange screw cap. "Production sterile". 480/bag   |
| 65-7509    | 2ml 2D barcoded cryo tube with jacket. Polypropylene, round bottom with internal thread. Jacket incorporates linear barcode and human readable ID. Star foot. Uncapped. "Production sterile". Supplied in 48 well format rack, 10 racks/case.                        |
| 65-7510    | 2ml 2D barcoded cryo tube with jacket. Polypropylene, round bottom with internal thread. Jacket incorporates linear barcode and human readable ID. Star foot. Precapped with orange screw cap. "Production sterile". Supplied in 48 well format rack, 10 racks/case. |
| 65-9451    | 48 well format rack with LidLock and TwistLock. Open bottom for reading on whole rack 2D barcode scanners. For use with 1ml and 2ml cryo tubes. 10/case.   |
| 65-1700    | 9x9 Polypropylene cryo rack. White with clear lid. 10/case. For use with all 1ml and 2ml cryo tubes.   |
| 65-1701    | 10x10 Polypropylene cryo rack. White with clear lid. 10/case. For use with 1ml and 2ml cryotubes with internal thread only.  |
| 65-7552    | Internal thread screw caps, orange. Bulk. 1000/bag.  |



**2ml cryo tube with internal thread and no jacket**

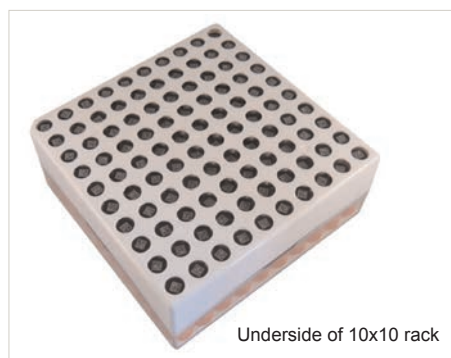
**Specifications**

|                            |  |
|----------------------------|--|
| Working volume             | 2.0ml  |
| Tube height                | 38.0mm   |
| Tube height with screw cap | 47.8mm   |
| Inner diameter             | 10.6mm   |
| Outer diameter             | 12.6mm   |
| Min Temp                   | -196°C<br>Not for use in liquid phase Nitrogen |



**Ordering Information**

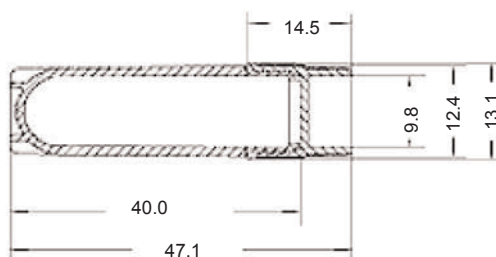
| Catalog No | Description  |
|------------|--|
| 65-7502    | 2ml 2D barcoded cryo tube. Polypropylene, round bottom with internal thread. Star foot. Orange cap. Sterile. 100/bag                                     |
| 65-9451    | 48 well format rack with LidLock and TwistLock. Open bottom for reading on whole rack 2D barcode scanners. For use with 1ml and 2ml cryo tubes. 10/case. |
| 65-1700    | 9x9 Polypropylene cryo rack. White with clear lid. 10/case. For use with all 1ml and 2ml cryo tubes.   |
| 65-1701    | 10x10 Polypropylene cryo rack. White with clear lid. 10/case. For use with 1ml and 2ml cryotubes with internal thread only.                              |
| 65-7552    | Internal thread screw caps, orange. Bulk. 1000/bag.  |



**2ml cryo tube with external thread**

**Specifications**

|                            |  |
|----------------------------|--|
| Working volume             | 2.0ml  |
| Tube height                | 40.0mm   |
| Tube height with screw cap | 47.1mm   |
| Inner diameter             | 9.8mm  |
| Outer diameter             | 13.1mm   |
| Min Temp                   | -196°C<br>Not for use in liquid phase Nitrogen |



**Ordering Information**

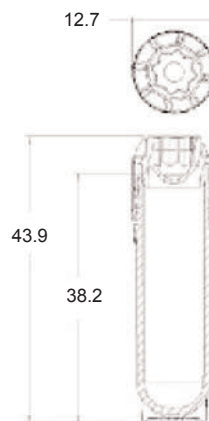
| Catalog No | Description  |
|------------|--|
| 65-7501    | 2ml 2D barcoded cryotube. Polypropylene, round bottom with external thread. Star foot. Orange cap. Sterile. 100/bag                                      |
| 65-9451    | 48 well format rack with LidLock and TwistLock. Open bottom for reading on whole rack 2D barcode scanners. For use with 1ml and 2ml cryo tubes. 10/case. |
| 65-1700    | 9x9 Polypropylene cryo rack. White with clear lid. 10/case. For use with all 1ml and 2ml cryo tubes.   |
| 65-7572    | External thread screw caps, orange. Bulk. 480/bag.   |



**2ml cryo tube with external thread and jacket**

**Specifications**

|                            |  |
|----------------------------|--|
| Working volume             | 2.0ml  |
| Tube height                | 38.2mm   |
| Tube height with screw cap | 43.9mm   |
| Outer diameter             | 12.7mm   |
| Min Temp                   | -196°C<br>Not for use in liquid phase Nitrogen |



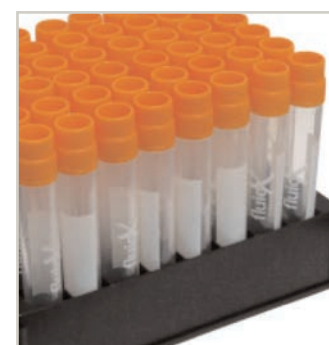
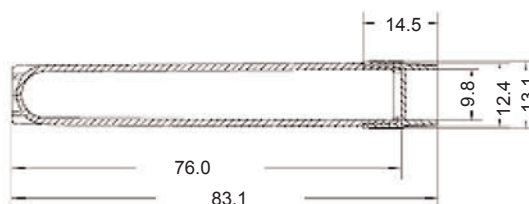
**Ordering Information**

| Catalog No | Description   |
|------------|---|
| 65-7531    | 2ml 2D barcoded cryo tube with external thread and jacket. Round bottom. External thread screw cap, with starfoot. Jacket incorporates linear barcode and human readable markings. Uncapped, non-sterile. 480/bag.  |
| 65-7532    | 2ml 2D barcoded cryo tube with external thread and jacket. Round bottom. External thread screw cap, with starfoot. Jacket incorporates linear barcode and human readable markings. Precapped with orange screw cap. "Production sterile". 480/bag.                                  |
| 65-7533    | 2ml 2D barcoded cryo tube with external thread and jacket. External thread screw cap, with starfoot. Jacket incorporates linear barcode and human readable markings. Racked. Uncapped. "Production sterile". Supplied in 48 well format rack, 10 racks/case.                        |
| 65-7534    | 2ml 2D barcoded cryo tube with external thread and jacket. External thread screw cap, with starfoot. Jacket incorporates linear barcode and human readable markings. Racked. Precapped with orange screw cap. "Production sterile". Supplied in 48 well format rack, 10 racks/case. |
| 65-9451    | 48 well format rack with LidLock and TwistLock. Open bottom for reading on whole rack 2D barcode scanners. For use with 1ml and 2ml cryo tubes. 10/case.  |
| 65-1700    | 9x9 Polypropylene cryo rack. White with clear lid. 10/case. For use with all 1ml and 2ml cryo tubes.  |
| 65-7572    | External thread screw caps, orange. Bulk. 1000/bag.   |

**4ml cryo tube with external thread**

**Specifications**

|                            |  |
|----------------------------|--|
| Working volume             | 3.5ml  |
| Tube height                | 76.0mm   |
| Tube height with screw cap | 83.1mm   |
| Inner diameter             | 9.8mm  |
| Outer diameter             | 13.1mm   |
| Min Temp                   | -196°C<br>Not for use in liquid phase Nitrogen |



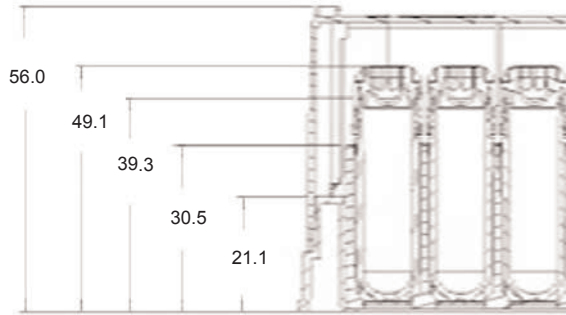
**Ordering Information**

| Catalog No | Description   |
|------------|---|
| 65-7511    | 4ml 2D barcoded cryotube. Polypropylene, round bottom with external thread. Star foot. Orange cap. Sterile. 50/bag                                      |
| 65-7542    | 48 well format rack with tall lid. For 4ml cryo tubes. Open bottom for reading on whole rack 2D barcode scanners. For use with 4ml cryo tubes. 10/case. |
| 65-7572    | External thread screw caps, orange. Bulk. 1000/bag.   |

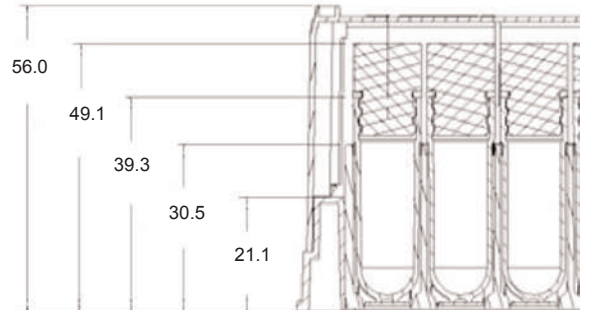
**WARNING**

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.

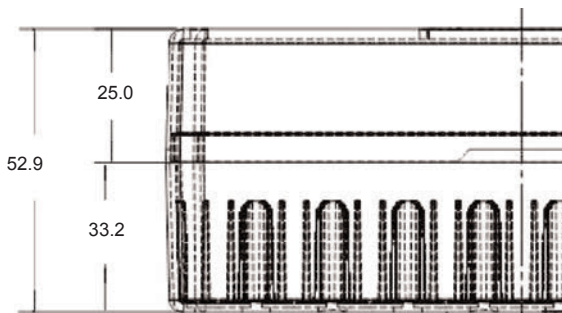
Racks for cryo tubes



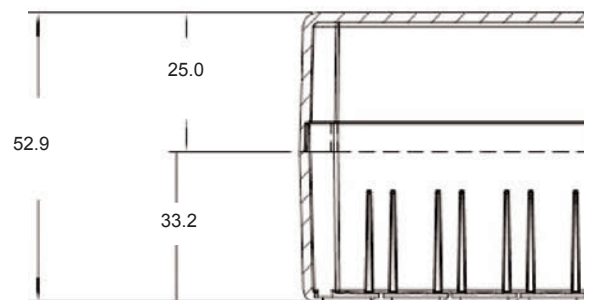
Cat No 65-9451  
Shown with external screw top tubes  
For use with 1ml and 2ml cryo tubes.  
Available with 2D rack ID



Cat No 65-9451  
Shown with internal screw top tubes  
For use with 1ml and 2ml cryo tubes.  
Available with 2D rack ID



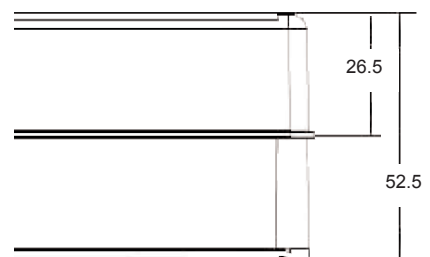
Cat No 65-1700  
9x9 polypropylene cryo rack  
For use with 1ml and 2ml cryo tubes



Cat No 65-1701  
10x10 polypropylene cryo rack  
For use with 1ml and 2ml cryo tubes with internal thread



48 format rack base for Cat Nos 65-7541 and 65-7542  
For use with 2ml cryo tube and 4ml cryo tubes (with tall lid)



Cat No 65-7541 with lid

6ml polypropylene tube with external thread and jacket

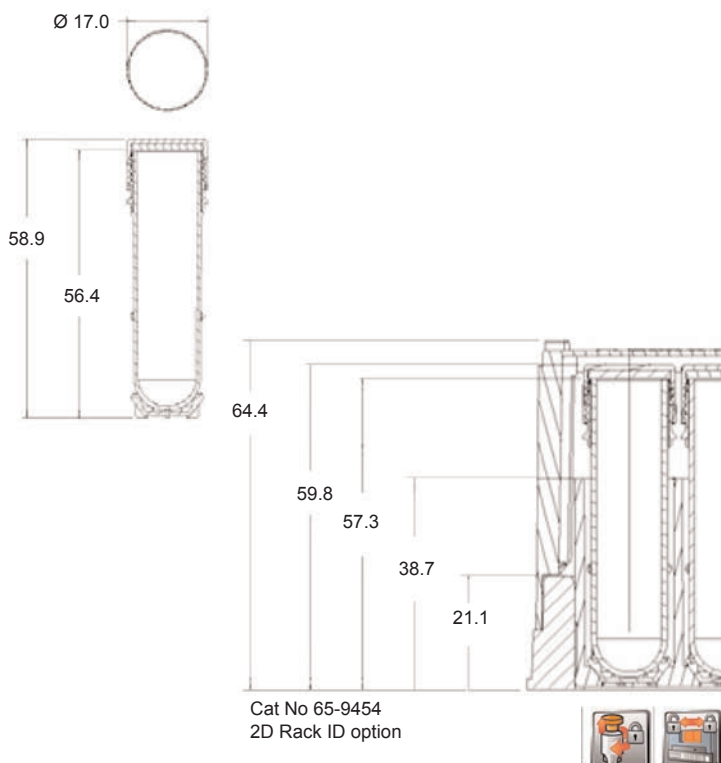


Specifications

|                            |   |
|----------------------------|---|
| Working volume             | 5.5ml                                       |
| Tube height                | 56.4mm                                      |
| Tube height with screw cap | 58.9mm                                      |
| Inner diameter             | 12.0mm                                      |
| Outer diameter             | 17.0mm                                      |
| Min Temp                   | -196°C Not for use in liquid phase Nitrogen |

Ordering Information

| Catalog No | Description  |
|------------|--|
| 65-9201    | 6ml EasyTrack 2D barcoded external thread screw top tube with jacket. Linear barcode and human readable ID on side. Precapped with screw caps. 240 tubes/case. |
| 65-9454    | 24 well format rack with TwistLock and LidLock. Open bottom for 2D barcode reading on whole rack scanners. 10 racks/case.                                      |



10ml polypropylene tube with external thread and jacket

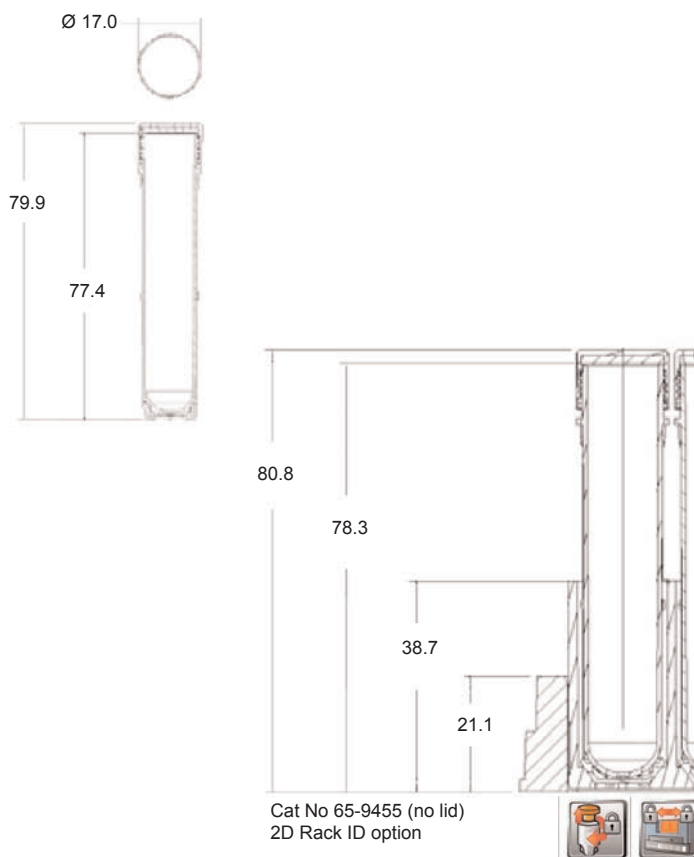


Specifications

|                            |   |
|----------------------------|---|
| Working volume             | 8.0ml                                       |
| Tube height                | 77.4mm                                      |
| Tube height with screw cap | 79.9mm                                      |
| Inner diameter             | 13.0mm                                      |
| Outer diameter             | 17.0mm                                      |
| Min Temp                   | -196°C Not for use in liquid phase Nitrogen |

Ordering Information

| Catalog No | Description   |
|------------|---|
| 65-9301    | 10ml EasyTrack 2D barcoded external thread screw top tube with jacket. Linear barcode and human readable ID on side. Precapped with screw caps. 240 tubes/case. |
| 65-9455    | 24 well format rack with TwistLock. No lid. Open bottom for 2D barcode reading on whole rack scanners. 10 racks/case.   |



**Tissue Sample Storage Tube**

**Designed specifically for tissue sample storage**

Flat bottom and straight sides for easy sample extraction and forcep use. Height and shape optimised for manual use, including use with gloved hands.

Polypropylene cap liner helps to create a compression seal when the screw cap is correctly applied.

Able to store tissue samples up to 9.5mm in size (ideal between 5mm to 7mm for easy extraction).

**Temperature resistant**

Perfect for cryogenic sample storage in gas phase liquid nitrogen (we recommend that tubes are not submerged in liquid phase).

Manufactured from high quality polypropylene\*, Tissue Sample Storage Tubes can be stored at temperatures as low as -196°C.

\*Tube, lid and lid liner are manufactured from homopolymer which provides a lower binding and wider temperature tolerance than standard polypropylene resins.

**Secure tracking**

A unique and permanent 2D Datamatrix barcode is directly laser-etched to the base of each tube.

These tubes can be combined with FluidX single tube and whole rack 2D barcode readers to provide a quick and secure sample tracking system.

An additional 2D barcode and human readable ID can be placed on the tube side.

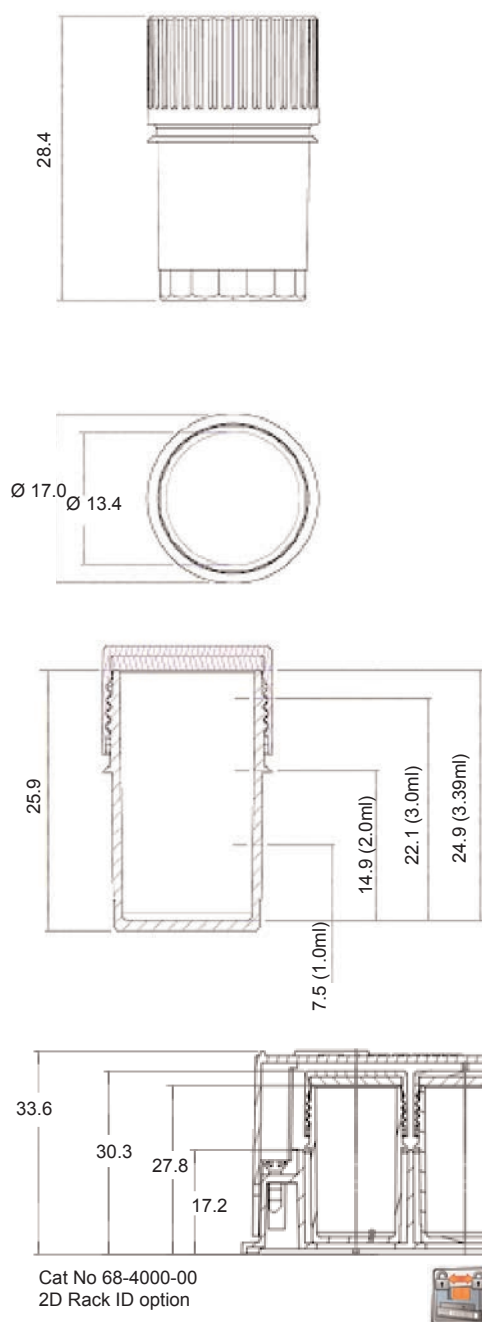


**Specifications**

|                            |   |
|----------------------------|---|
| Working volume             | 3.0ml                                       |
| Tube height                | 25.9mm                                      |
| Tube height with screw cap | 28.4mm                                      |
| Inner diameter             | 13.4mm                                      |
| Outer diameter             | 17.0mm (with cap)                           |
| Rack height with lid       | 33.6mm                                      |
| Min Temp                   | -196°C Not for use in liquid phase Nitrogen |

**Ordering Information**

| Catalog No | Description  |
|------------|--|
| 68-4000-01 | Tissue sample tube with external thread screw cap. Flat bottom. 2D barcoded. 240 tubes/case.                                   |
| 68-4000-11 | Tissue sample storage tube with external thread screw cap. Flat bottom. 2D barcoded. Pre-racked, 24 tubes/rack, 10 racks/case. |
| 68-4000-00 | 24 well format rack for tissue sample storage tube, with LidLock. 10 racks/case  |



### 2ml, 4ml and 6ml U-bottom glass tubes

Contained within a screw-capped plastic jacket.

Permanent 2D barcode is laser-etched on the bottom of the jacket to accompany the corresponding linear barcode and human readable number positioned on the side.

Each 2D barcode is tested for readability and uniqueness.

Screw cap seals the glass tube using a silicone sealing film for added reliability.

A customised PTFE insert can be supplied for use with particularly aggressive chemicals.

Chemically inert, with low binding and low static properties, FluidX glass tubes are ideal for dry compound storage, samples stored in DMSO and other caustic substances.

2ml tubes available in 48 well format rack with LidLock and TwistLock.

4ml and 6ml tubes available in 24 well format rack with LidLock and TwistLock



2ml and 4ml glass tubes

### 1.2ml glass tubes

Our 1.2ml v-bottom glass sample storage tubes are available with a 2D barcode or uncoded.

Supplied in a 96 well format high base rack.



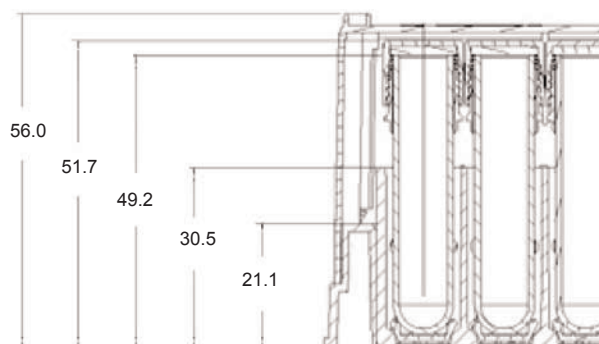
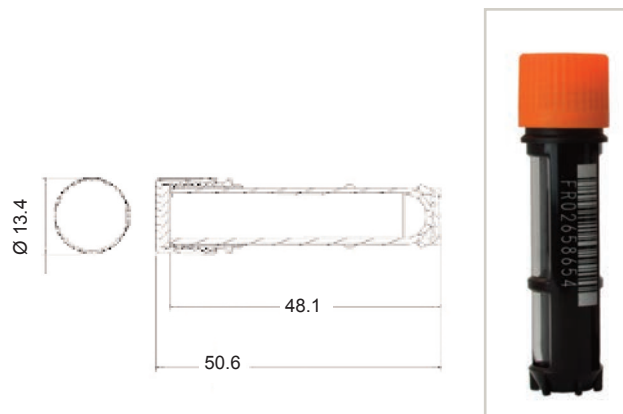
2ml glass tube with jacket

Specifications

|                            |        |
|----------------------------|--------|
| Working volume             | 1.8ml  |
| Tube height                | 48.1mm |
| Tube height with screw cap | 50.6mm |
| Inner diameter             | 8mm    |
| Outer diameter             | 13.4mm |
| Min Temp                   | -80°C  |

Ordering Information

| Catalog No | Description   |
|------------|---|
| 65-9001    | 2m EasyTrack 2D barcoded glass tubes in plastic jacket. Round bottom. Linear barcode and human readable ID on side. 480 tubes and caps/pack.                            |
| 65-9451    | 48 well format rack with LidLock and TwistLock. Open bottom for 2D barcode reading on whole rack scanner. For use with 2ml glass tubes, 1ml and 2ml cryo tubes. 10/case |



Cat No 65-9451  
Available with 2D rack ID option



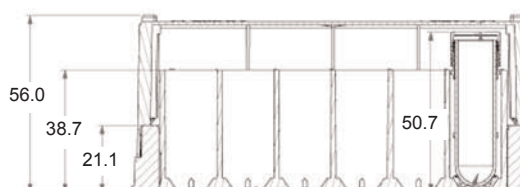
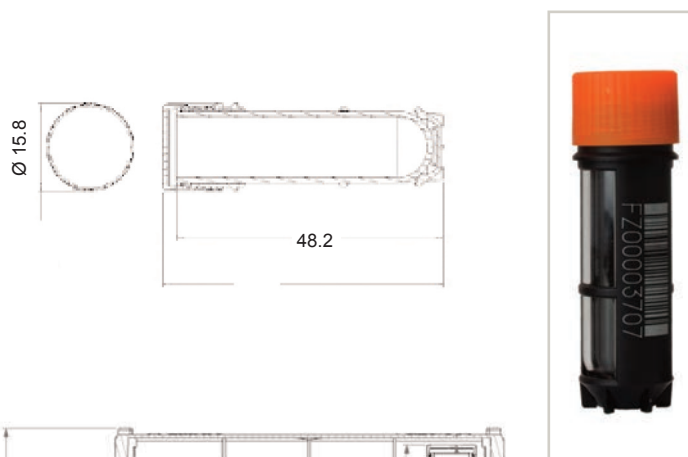
4ml glass tube with jacket

Specifications

|                            |        |
|----------------------------|--------|
| Working volume             | 3.5ml  |
| Tube height                | 48.2mm |
| Tube height with screw cap | 50.7mm |
| Inner diameter             | 10.5mm |
| Outer diameter             | 15.8mm |
| Min Temp                   | -80°C  |

Ordering Information

| Catalog No | Description   |
|------------|---|
| 65-9002    | 4ml EasyTrack 2D barcoded glass tubes in plastic jacket. Round bottom. Linear barcode and human readable ID on side. 240 tubes and caps/pack.   |
| 65-9453    | 24 well format rack with LidLock and TwistLock. Open bottom for 2D barcode reading on whole rack scanner. For use with 2ml glass tubes. 10/case |



Cat No 65-9453  
Available with 2D rack ID option



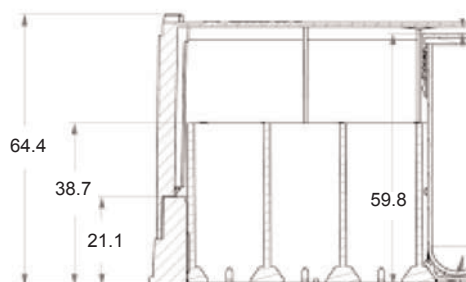
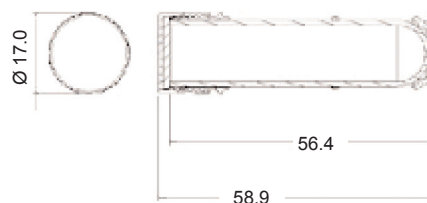
## 6ml glass tube with jacket

## Specifications

|                            |       |
|----------------------------|-------|
| Working volume             | 5.5   |
| Tube height                | 56.4  |
| Tube height with screw cap | 58.9  |
| Inner diameter             | 12    |
| Outer diameter             | 17.0  |
| Min Temp                   | -80°C |

## Ordering Information

| Catalog No | Description   |
|------------|---|
| 65-9003    | 6ml glass tubes with plastic jacket. Round bottom. 2D barcode on base. Linear code and human readable number on side. 240 tubes and caps/pack.                    |
| 65-9454    | 24 well format rack with LidLock and TwistLock. Open bottom for 2D barcode reading on whole rack scanner. For use with 6ml glass and polypropylene tubes. 10/case |



Cat No : 65-9454  
Available with 2D rack ID



## 1.2ml glass tube

## Specifications

|                            |        |
|----------------------------|--------|
| Working volume             | 0.9ml  |
| Tube height                | 48.5mm |
| Tube height with screw cap | 50.0mm |
| Inner diameter             | 7.6mm  |
| Outer diameter             | 8.4mm  |
| Min Temp                   | -80°C  |



## Ordering Information

| Catalog No | Description  |
|------------|--|
| 66-32900   | 1.2ml non-coded glass tubes in 96-format rack. 10/box.             |
| 66-52900   | 1.2ml EasyTrack 2D barcoded glass tubes in 96-format rack. 10/box. |

Squeeze nearly three racks into the same space as one.  
 Our 240 high density tube rack lets you store 2.5 times as many 200ul samples in the same space (compared with 0.5ml tubes in 96 well format).

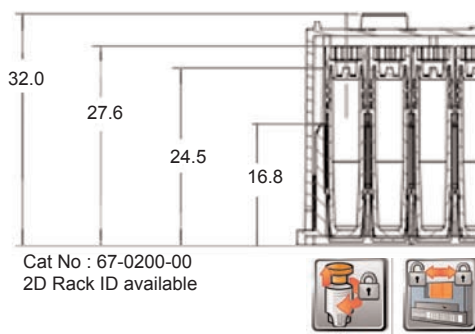
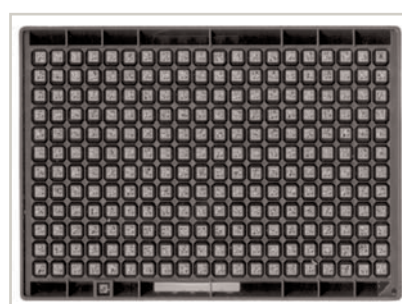
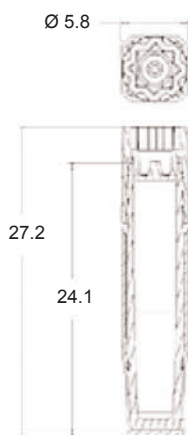
Unique high density 240 tube rack with 200ul sample volume.  
 External thread screw cap, permanent 2D barcode on tube bottom.  
 Rack features unique 2D barcode identifier for automatic orientation.  
 Read tube and rack ID simultaneously using FluidX whole rack 2D barcode scanner.

### Specifications

|                            |  |
|----------------------------|--|
| Working volume             | 200ul  |
| Tube height                | 24.1   |
| Tube height with screw cap | 27.2   |
| Outer diameter             | 5.8  |
| Min Temp                   | -196°C<br>Not for use in liquid phase Nitrogen |



High density 240-format rack compared with 96-format racks



### Ordering Information

| Catalog No | Description  |
|------------|--|
| 67-0200-01 | 200ul 2D barcoded external thread screw top tube. Precapped with orange screw cap. Bulk. 2400/Case   |
| 67-0200-11 | 200ul 2D barcoded external thread screw top tube. Precapped with orange screw cap. Supplied in 240 well format rack. Pre-capped with orange external thread caps. 10 racks/case.   |
| 67-0200-21 | 200ul 2D barcoded external thread screw top tube. Precapped with orange screw cap. Supplied in 240 well format rack. Pre-capped with orange external thread caps. 2D barcode and human readable ID on side of tube. 10 racks/case. |
| 67-0200-31 | 200ul 2D barcoded external thread screw top tube. Precapped with orange screw cap. Supplied in 240 well format rack. Pre-capped with orange external thread caps. 2D barcode and human readable ID on side of tube. 1 sample rack. |
| 67-0200-00 | 240 well format rack with LidLock and TwistLock.10/case.   |



## 384 WELL FORMAT POLYPROPYLENE TUBES

384-format polypropylene tubes with 2D barcode, available in either round or square well design.

Suitable for temperatures between -196 and 110°C, should not be used in liquid phase Nitrogen. Can be autoclaved.

Easy to read 2D barcode, even in harsh conditions or when damaged. Adheres fully to the ECC200 standard.

Barcode is generated using latest and most sophisticated error correction methods.

A new generation, high quality, permanent laser etching system provides sharper detail.

100% QC. Every tube is checked to ensure they meet our exacting standards for readability.

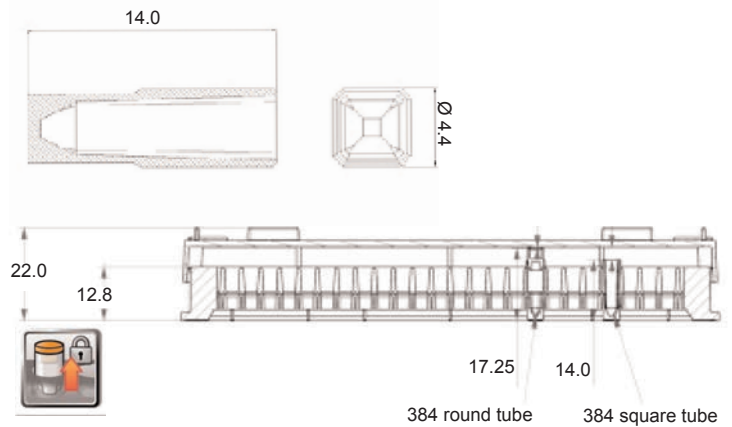
Certified free from DNase, RNase, DNA and endotoxins.

Sterilisation is achieved by irradiation conducted in accordance with EN552, ISO11137 and SI/AAMI/ST31/ST32 standards.

### 384-format square tubes

#### Specifications

|                  |  |
|------------------|--|
| Working volume   | 0.1ml  |
| Tube height      | 14mm   |
| Inner diameter   | 3.6mm  |
| Outer diameter   | 4.4mm  |
| Centre to centre | 4.5mm  |
| Min Temp         | -196°C<br>Not for use in liquid phase Nitrogen |



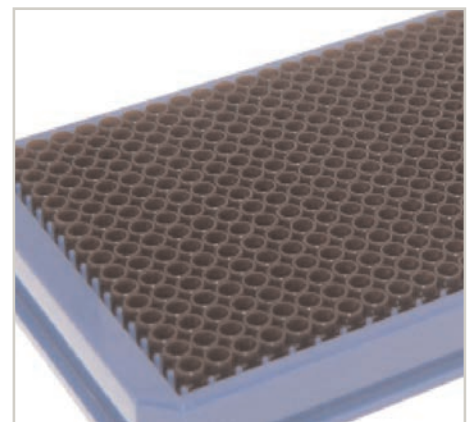
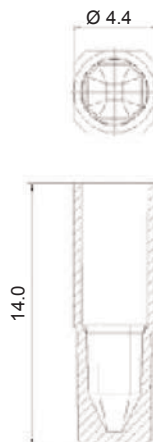
#### Ordering Information

| Catalog No | Description  |
|------------|--|
| 64-0120211 | 120ul square well tube, Non-coded. Suitable for thermal sealing. Uncapped. Supplied in 384 well format rack with TubeLock. 20 racks/case.  |
| 66-0120211 | 120ul 2D barcoded square well tube. Suitable for thermal sealing. Uncapped. Supplied in 384 well format rack with TubeLock. 20 racks/case. |

### 384-format round tubes

#### Specifications

|                      |  |
|----------------------|--|
| Working volume       | 0.08ml   |
| Tube height          | 14.0mm   |
| Tube height with cap | 16.9mm   |
| Inner diameter       | 3.6mm  |
| Outer diameter       | 4.4mm  |
| Centre to centre     | 4.5mm  |
| Min Temp             | -196°C<br>Not for use in liquid phase Nitrogen |



#### Ordering Information

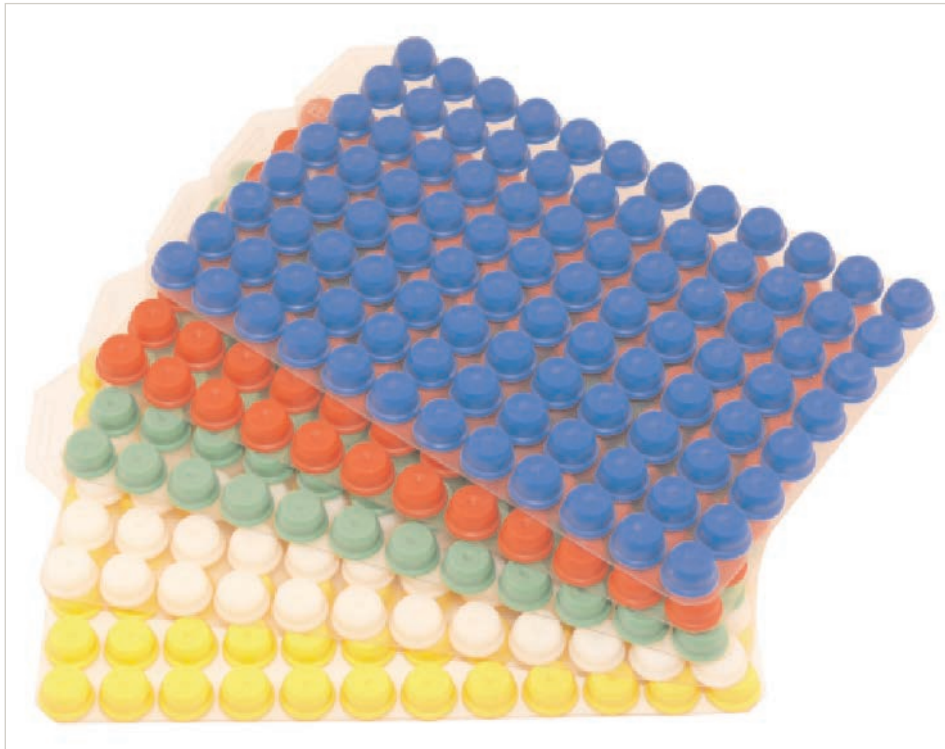
| Catalog No | Description   |
|------------|---|
| 64-0110211 | 110ul round well tube. Uncoded. Uncapped. Suitable for septum cap or thermal sealing. Supplied in 384 well format rack with TubeLock. 20 racks/case.    |
| 66-0110211 | 110ul 2D barcoded round well tube. Uncapped. Suitable for septum cap or thermal sealing. Supplied in 384 well format rack with TubeLock. 20 racks/case. |
| 66-0110212 | Septum caps compatible with 110ul round well tube. 100 Cap trays / case (38400 caps)  |

### TPE septum caps

Piercable cap, for use with any 96-format FluidX tube.

White, disposable caps manufactured from thermoplastic elastomer.

Suitable for use at temperatures between -80 and 110°C



### Ordering Information

| Catalog No | Description  |
|------------|--|
| 65-73000   | EasyCap Piercable septum seals for all FluidX EasyTrack tubes. Natural, on backing plate of 96 caps, 50 mats per case. For manual use and on XDC-96 automated capper/decapper. |
| 65-73001   | EasyCap Piercable septum seals for all FluidX EasyTrack tubes. Blue, on backing plate of 96 caps, 50 mats per case. For manual use.  |
| 65-73002   | EasyCap Piercable septum seals for all FluidX EasyTrack tubes. Green, on backing plate of 96 caps, 50 mats per case. For manual use.   |
| 65-73003   | EasyCap Piercable septum seals for all FluidX EasyTrack tubes. Red, on backing plate of 96 caps, 50 mats per case. For manual use.   |
| 65-73004   | EasyCap Piercable septum seals for all FluidX EasyTrack tubes. Yellow, on backing plate of 96 caps, 50 mats per case. For manual use.  |
| 65-74000   | EasyCap Piercable septum seals for all FluidX EasyTrack tubes. Natural, bulk, 1,000 caps per bag. For manual use.  |



**Screw Caps**

**Reduce sample loss**

A significant amount of liquid can become trapped within a standard screw cap resulting in the loss of valuable sample material. The “hollow” area on the cap catches the sample and surface tension then makes removal difficult. Studies demonstrate that our new screw-cap design significantly reduces this effect by offering a much lower liquid retention than many existing caps while maintaining seal quality.

Polypropylene cap with a silicon “O” ring for optimal seal quality.

Compatible with all FluidX 96-format tubes with screw top.

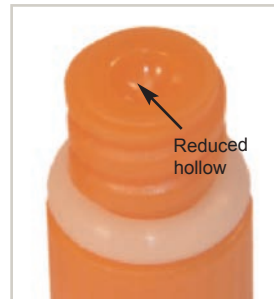
High chemical resistance.

Now available in a choice of ten colours to aid identification.

Autoclavable.

Temperature range -196°C to +120°C. Do not use in liquid phase Nitrogen.

Automation friendly, available in Cap Carrier for use with automated capping/decapping systems.



**Ordering Information**

| Catalog No   | Description                                       |
|--------------|---|
| 65-53100-Z1  | Screw caps. White, 1 bag of 960 caps              |
| 65-53100-Z2  | Screw caps. Red, 1 bag of 960 caps                |
| 65-53100-Z3  | Screw caps. Yellow, 1 bag of 960 caps             |
| 65-53100-Z4  | Screw caps. Blue, 1 bag of 960 caps               |
| 65-53100-Z5  | Screw caps. Transparent Blue, 1 bag of 960 caps   |
| 65-53100-Z6  | Screw caps. Orange, 1 bag of 960 caps             |
| 65-53100-Z7  | Screw caps. Transparent Orange, 1 bag of 960 caps |
| 65-53100-Z8  | Screw caps. Green, 1 bag of 960 caps              |
| 65-53100-Z9  | Screw caps. Transparent Green, 1 bag of 960 caps  |
| 65-53100-Z10 | Screw caps. Amber, 1 bag of 960 caps              |



**SBS Cap Carrier**

SBS format screw-cap carrier to enable un-capped 96 format tubes to be capped.

**Improve process efficiency**

Pre-capped tubes (with screw caps) need to be decapped before use. The FluidX Cap Carrier enables uncapped tubes to be used immediately and then capped using an automated screw-cap capper / decapper, leading 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 also becomes faster and the risk of contamination is reduced as cap handling is eliminated.

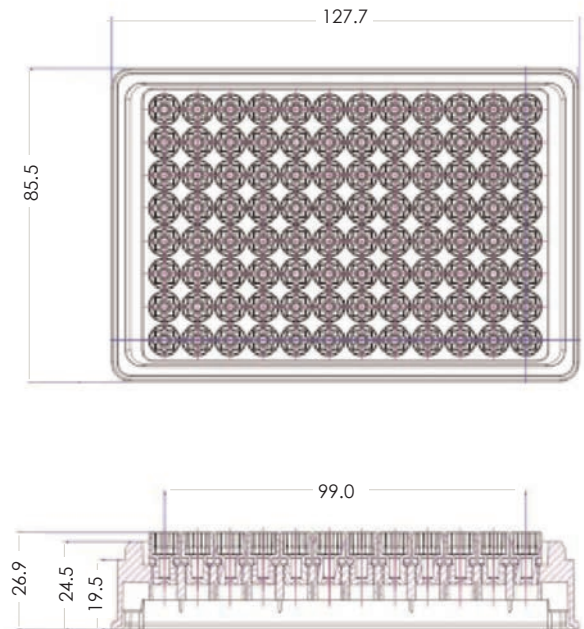
**Pre-filled with low retention screw caps**

Fluidx Cap Carriers are pre-filled with FluidX low retention screw cap that can reduce sample loss by up to 90% compared with standard caps.



**Ordering Information**

| Catalog No | Description   |
|------------|---|
| 66-53111   | SBS Cap Carrier. Screw caps for all FluidX screw cap tubes. Orange, in SBS stackable, re-usable carrier. 10 Carriers, 960 caps per case |



## AIR FILM THERMAL SEAL

The single-use AirFilm aluminium film is designed for economical, individual sealing of polypropylene microtubes in 96 or 384 format racks.

### Impenetrable barrier

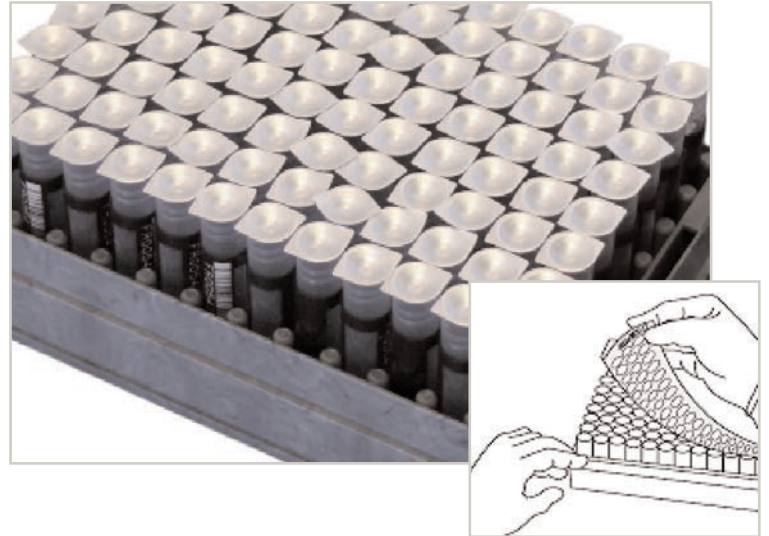
Creates an air-tight seal that can be easily removed by peeling. Suitable for low temperature sample storage ( -196°C). Not for use in liquid phase Nitrogen.

### Reduce risk of sample damage

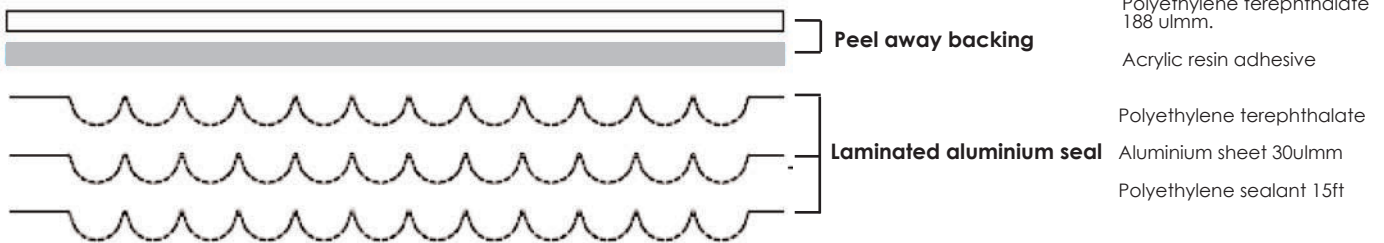
Heat transfer during sealing process is lessened by the "embossed" seal construction which creates an air pocket between the seal and tube.

### Automated use

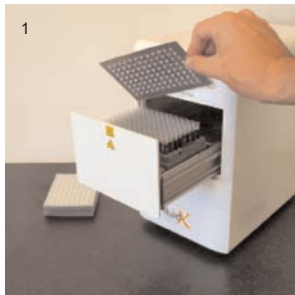
AirFilm seals can be pierced with suitable liquid handling tips.



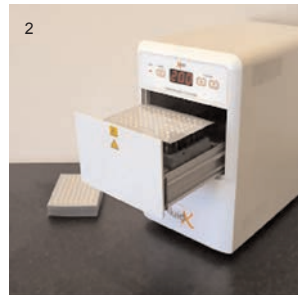
### AirFilm composition



### Easy to seal



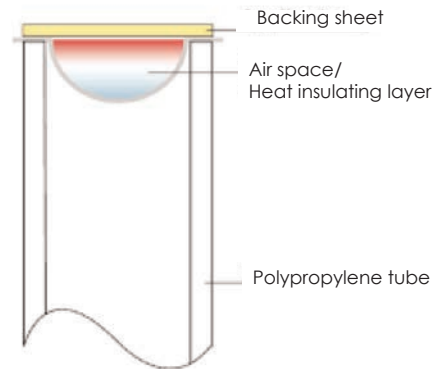
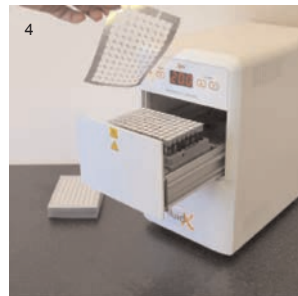
1 Place racked tubes in the thermal sealer and position a sheet of AirFilm over them.



2 Start the sealing process. Recommended sealing temperature and time for use with FluidX Manual Thermal Sealer are 200°C/5 seconds.



3 Remove rack from the sealer and gently remove PET backing sheet from the sealed tubes.



### Easy to remove



### Ordering Information

| Catalog No | Description   |
|------------|---|
| 66-1001    | AirFilm Individual Thermal Seal, 96 tube seals per sheet. 50 Sheets/case  |
| 66-1002    | AirFilm Individual Thermal Seal, 384 tube seals per sheet. 50 Sheets/case |

At FluidX we understand how important it is to provide labware in a perfect condition and ideally suited for your research.

That's why we offer three alternative methods of providing contamination free products.

**PRODUCTION STERILE**

Prevention is better than cure. That's why we manufacture all of our storage products in a class 100,000 clean room environment. To gain access to this area everyone must wear a gown, gloves, face-mask, hair-net and over-shoes.

In addition they must pass through a double door with an "airshower" designed to remove any particles. No material that could cause contamination is allowed in the clean room.

From the injection moulding 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 ready for shipment.

The efficacy of this process is tested periodically so we can be sure that FluidX consumables are "production sterile" and meet the standards outlined in the table below:

| Contaminant            | Testing standard   |
|------------------------|--|
| Endotoxin (Pyrogen)    | Product(s) have been tested by a 3rd party and found to be below the acceptance level $\leq 0.05$ 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) and meet CONEG requirements of 100 ppm/weight                 |
| Animal (TSE/BSE)       | Based on 3rd party ELISA testing no product(s) are manufactured from, or comes into contact with, animal materials |

**GAMMA IRRADIATION STERILISATION**

Typically laboratory consumables requiring sterilisation are treated to ensure a "Sterility Assurance Level", or SAL, of  $10^{-6}$ . Irradiation itself cannot guarantee that the product is free from other contaminants such as those listed in the previous table, only that there are no viable micro-organisms. To ensure no further contaminants are present production sterility is still an essential requirement.

However is not possible to guarantee that gamma irradiation will destroy any DNA contamination to a point where it cannot be amplified and interfere with subsequent analysis.

Gamma irradiation affects polypropylene so that it becomes more brittle over time and increases the binding characteristics of the plastic (for more information see the FluidX application note "Choice of Polypropylene Polymer and Production Sterile versus Gamma Irradiation"). For this reason FluidX 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)**

Ensuring that no amplifiable DNA is present relies on:

- (i) Production sterile manufacturing,
- (ii) Sterilisation using Ethylene Oxide (EtO).

Sterilisation using EtO has been shown to be as effective as gamma irradiation at providing a sterility assurance level of  $10^{-6}$ .

In addition it is effective at ensuring that there is no DNA that can be amplified to a level where there is any risk of subsequent interference.

It is therefore the sterilisation method of choice in critical areas such as forensics.

|   | Production Sterile     | Gamma Irradiation   | Ethylene Oxide       |
|---|------------------------|---|----------------------|
| Manufactured in a clean room. Free from Pyrogens / DNA / RNA / RNase / DNase / Heavy metals / animal contaminants | Yes                    | Yes   | Yes                  |
| Certified by case to a SAL of $10^{-6}$   | No                     | Yes   | Yes                  |
| Recommended for critical forensic applications (DNA amplification)  | No                     | No  | Yes                  |
| Modifies polypropylene  | No                     | Yes   | No                   |
| Packaging   | Bulk, case of 10 racks | Sleeve of 5 racks as standard. Individually wrapped as option | Individually wrapped |
| Min Quantity  | None                   | 10 cases <sup>(i)</sup>                                       | 25 cases (i)         |
| Turnaround time   | From stock             | 10 days   | 15 days              |
| Cat No. <sup>(ii)</sup>   | NA                     | 69-9110   | 69-9112              |

(i) Lower batch sizes can be accommodated, but with a longer lead time as the product would need to be batched with other orders.

(ii) To order sterile product please order item and quantity required plus equivalent number of the sterilisation method catalog no.

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 ( $-132^{\circ}\text{C}$ ), all metabolic activity comes to a halt. Storage below this temperature therefore offers the most secure form of long term cryo-preservation.

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  $-150^{\circ}\text{C}$  and  $-178^{\circ}\text{C}$ , 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  $-195^{\circ}\text{C}$ .

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.



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