

Bluechiip® Rack and Tower Solutions



PRODUCT NAME

Bluechiip® Rack and Tower Solutions

GENERAL DESCRIPTION

Bluechiip® offers a passive chain-of-custody and identification solution for wireless tracking and management of cryogenic storage equipment such as samples, cassettes, racks, freezers and tanks in biobanks. Once inserted, the Cryotag™ cannot be removed from the rack or tower.

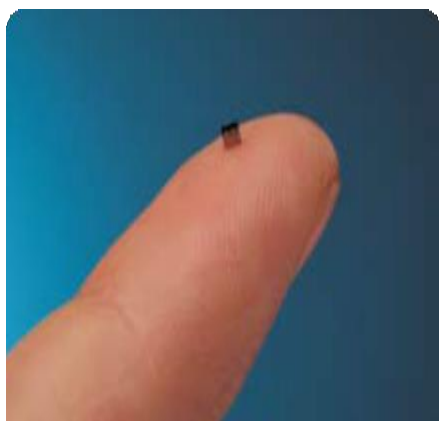
6 Bay Rack

The Bluechiip® 6-bay rack is designed for storing up to 6 metal cassettes (canisters) in standard liquid nitrogen tanks. The rack handle is uniquely designed for the Bluechiip® CryoTag™ to be inserted. The Bluechiip® racks incorporate the following unique features:

- Hooking handle notch tilts rack towards the closed side, preventing the cassettes from falling out.
- Bluechiip racks are designed to interlock with the Bluechiip® Cryocassette to prevent cassettes sliding out during use.

12 Bay Tower

The Bluechiip® Tower Rack-12 is designed for storing up to 12 cryogenic boxes in standard LN₂ tanks. The Bluechiip® CryoTag™ can be inserted on top of the Tower Rack directly.



The Bluechiip® racks and towers can be fitted with a Bluechiip® CryoTag. The Cryotag uses micro-electro-mechanical systems (MEMS), a relatively new technology that does not necessarily require electronic devices, transistors, capacitors etc., for operation. The tag communicates to the reader in the radio frequency spectrum but not the same way as typical RFID systems.

WHAT ARE MEMS?

MEMS bring together many diverse techniques to fabricate electronics, miniaturized sensors, actuators, as well as systems made up from these elements. It is primarily focused on the miniaturization of mechanical systems and the exploitation of the unique attributes of silicon in these miniature systems. Examples of other common MEMS devices include accelerometers used in air bag systems and hand held games. Other examples include inkjet printer heads and micro-mirrors used for digital projection displays.

Using the Bluechiip® cassette, rack and tower products together with the Matchbox reader and Stream software offers the following tracking and chain of custody benefits for your biorepository system:

- Easy electronic identification of your racks, cassettes and towers and chain-of custody information.
- Track the ID of your racks and cassettes in a hierarchy using the Bluechiip® Stream software
- Manage your storage system in real time - real time location and tracking of your cassettes and racks at the tank where it happens and matters
- Temperature history of racks, cassettes, which are fitted with CryoTags and samples stored in Bluechiip® Cryovials.
- Ambient temperature monitoring via the Matchbox reader
- Associate barcodes or a human readable code as a secondary identifier

PRODUCT NUMBERS AND ORDERING

The Bluechiip® CryoTags are ordered separately and are not included in the racks and towers at delivery.

Product Name	Product Number	Outer Dimensions	Package	Weight per item
6 bay Rack	FRA-166	669mm (Height) x 142.8 mm (Width) x 17.5mm (Thickness)	Box of 10	1 kg
12bay Tower	RAC-812	624mm (Height) x 141.5 mm (Width) x 141.5mm (Thickness)	Box of 4	3.2 kg

Other sizes are available and please contact us to discuss your needs.



APPLICATIONS

- Biobanks, bio-repositories and cryo-preservation facilities
- Cryogenic stored samples
- Stem cell storage
- Clinical trials
- Cell lines
- In Vitro Fertilization (IVF)
- General laboratory use
- Pharmaceuticals
- Blood products



12 bay Tower

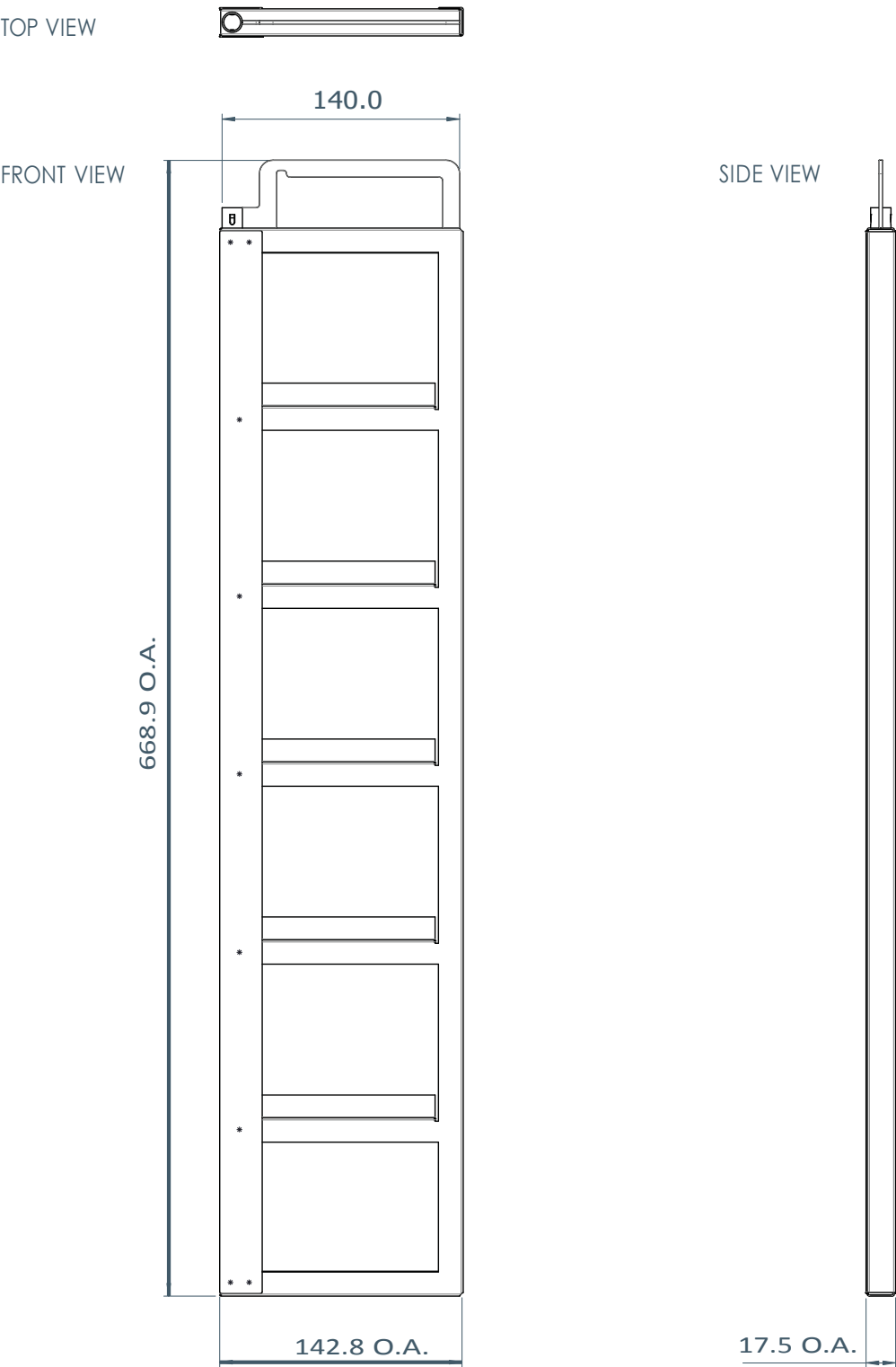


6 bay Rack

SPECIFICATIONS

The Bluechip® racks and towers are made from high-grade stainless steel for durability, strength and corrosion resistance.

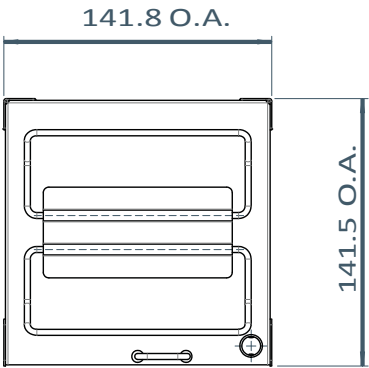
6 BAY RACK



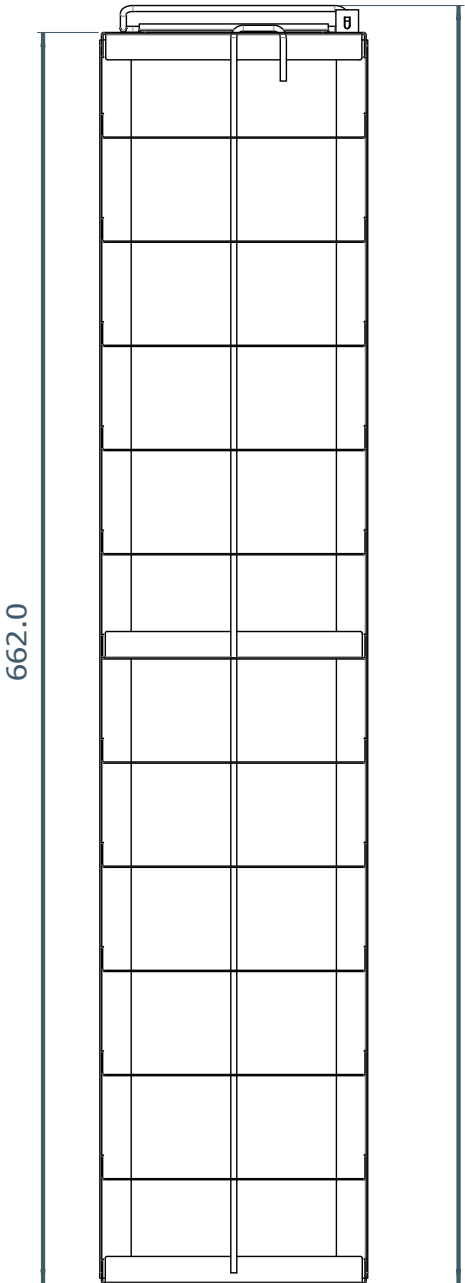
SCALE 1:4

12 BAY TOWER

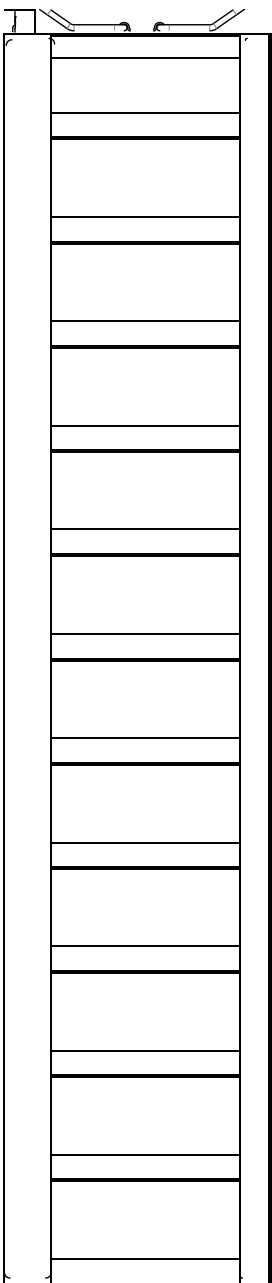
TOP VIEW



FRONT VIEW



SIDE VIEW



HOW DO I KNOW IF AN ITEM HAS A BLUECHIIP®?

Look for this symbol:



PLEASE READ CAREFULLY

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