unparalleled flexibility

intelligent incubation

Thermo Scientific Cytomat Interfaces
Intelligent Incubation and Storage

• Fully SiLA-compliant, internal databases
• Plug & Play functionality for super-fast integration
• Device-grouping for easy capacity ramp-up
Introducing the next level of intelligent, flexible incubation for precious samples

The Thermo Scientific™ Cytomat™ series is the first and only range of incubators with internal database-driven inventory management and device grouping. The most advanced “intelligent” incubators with market-leading flexibility.

- Faster response through reduced data transfer
- Plug & Play functionality for super-fast integration
- Device-grouping for easy capacity ramp-up
- Simple, cost-effective upgrade for existing incubators

Plug & Play

Cytomat incubators are fully SiLA-compliant, so there is no need to re-develop new drivers due to firmware changes or upgrades. They can therefore be easily and cost-effectively integrated into an automated platform, with plug & play functionality. Initial integration, upgrading, and device rearrangement in an existing system, is simple.

Intelligent Incubation

The Thermo Scientific Cytomat Series is the first automated incubator and storage solution with its own internal, non-volatile SQL database. Rather than relying on a centralized Process Management System (PMS), the incubator itself “knows” how many microplates it has and where each plate is. Automated Cytomat incubators can therefore be used and controlled independently, or as part of a larger system; there is no need for data mirroring by the PMS, which gives integrators and end-users superb response and flexibility:

- Internal management of individual plates by timestamp, barcode or position
- Plate search by barcode and position
- Bulk load and unload of plates

Unrivalled Speed

With its internal database and SiLA-compliant command set for database-driven inventory management, data transfer between incubator and PMS is significantly enhanced, ensuring super-fast response times. Combined with very fast plate access times, the Cytomat incubator range offers unrivalled speed and throughput, either in stand-alone use or as part of an automated platform.

Managed Over The Web

Users can easily access the intelligent Cytomat incubators remotely via the web, so trained personnel do not need to be on-site. The dedicated data viewer provides an “at-a-glance” overview of the inventory data, including the position of all microplates and points of integration, facilitating the simple re-arrangement of devices for added flexibility and ease-of-use.

Easy Capacity Ramp-up

Uniquely, Cytomat Series instruments can be grouped together (device grouping) which enables users to quickly and easily increase storage capacity. Up to four grouped devices can be controlled in parallel via the command interface, so tasks are executed simultaneously by all devices within the group. Multiple Cytomats can be docked/undocked from the system workflow with ease. This offers the simplest possible upgrade path for increased storage capacity and system throughput.
The interface that’s right for your requirements, whenever you need it

The advanced interfaces for the Cytomat series of incubators and hotels are available in a number of options for different levels of functionality. The interfaces can be ordered with new instruments, and as simple, cost-effective upgrades for existing incubators.

<table>
<thead>
<tr>
<th>Cytomat Advanced Interface Option</th>
<th>Description</th>
<th>Rated Voltage</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SiLA basic package</strong></td>
<td>For one Cytomat with or without transfer station or for one Connection Shuttle</td>
<td>100-230V</td>
<td>50143121</td>
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<tr>
<td></td>
<td>Embedded PC with SSD, SiLA Library incl. mandatory SiLA commands, common command set Incubator device class, Win7 license, transfer station control. Cytomat or individual Connection Shuttle control.</td>
<td></td>
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<tr>
<td><strong>Basic plus package 280</strong></td>
<td>Option with database for single Cytomat or Hotel</td>
<td>100-230V</td>
<td>50143387</td>
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<tr>
<td></td>
<td>SiLA basic package with additional specific command set and database for up to 280 datasets.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Basic plus package 680</strong></td>
<td>Option with database for single Cytomat or Hotel</td>
<td>100-230V</td>
<td>50143388</td>
</tr>
<tr>
<td></td>
<td>SiLA basic package with additional specific command set and database for up to 680 datasets.</td>
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</tr>
<tr>
<td><strong>Device grouping package</strong></td>
<td>Connection Shuttle recommended. Basic plus package required.</td>
<td>100-230V</td>
<td>50143389</td>
</tr>
<tr>
<td></td>
<td>Software package to link up to 4 Cytomat and one Connection Shuttle to one device. Single point of access. Combine up to 4 databases into a single database. Dynamic inbound/outbound traffic fire and forget). Easy service and maintenance.</td>
<td></td>
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</tr>
<tr>
<td><strong>Connection Shuttle Hardware</strong></td>
<td>Customized hardware solution SiLA basic package required.</td>
<td>N/A</td>
<td>50143390</td>
</tr>
<tr>
<td></td>
<td>Transfer station to connect Cytomats which use Device grouping package.</td>
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<td></td>
</tr>
</tbody>
</table>


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