



MATOS[®] PLUS RFID REFRIGERATOR RANGE

Ethicheck proudly introduces our new exclusive MATOS[®] Real Time Inventory and Temperature Monitoring RFID Cloud Refrigerator Range.

The MATOS[®] Cloud RFID system is an Inventory management solution, installed within the tested & proven MATOS[®] Cloud Pharmaceutical Refrigerators. It utilises the MATOS[®] Monitoring Cloud Platform to provide live inventory status information; detailing exactly what products are located in a fridge cabinet, product expiry information and re-order levels at all times. Each Refrigerator is linked directly to the comprehensive MATOS[®] Monitoring Real Time Temperature monitoring platform, ensuring that all critical temperature and product status information is always available.



MATOS[®] RFID Refrigerators are available in a range of models from an Under Bench 150L to a Freestanding 625L Refrigerator. Available for use in any Hospital, Pharmacy, Clinical Laboratory or local Doctor Surgery our MATOS Refrigeration range is manufactured in Europe with only the latest technology in Refrigeration being utilised to ensure you can have confidence in the asset you are purchasing.

The MATOS RFID Pharmaceutical Refrigeration range is your fully automated, in-built solution for all your Inventory and Temperature Monitoring requirements.

Contact our team today for more information on our newest range of RFID PHarmaceutical Refrigerators and book your very own demonstration with our sales team.

Benefits of the RFID Pharmaceutical Refrigerator:

- Monitor stock levels 24/7
- Monitor stock rotation- reducing wastage
- Be provided with data to assist with forecasting
- Daily, Weekly, Monthly Automatic Inventory / Temperature Reporting
- Reduces Human Interaction with the removal of manual stocktakes and downloading temperature dataloggers
- Product recalls are easily managed
- Ensure stock is legitimate and untampered from the point of manufacture
- Robust audit history with Data Management / Protection (conforms to FDA CFR Chapter 21, pt. 11 regulations)
- Receive Alerts when stock is running low and about to expire
- Live Dashboard Interface available on any web capable device so is accessible anywhere in the world
- Along with full 24/7 Temperature monitoring, SMS/Email Alerts and Cold Chain Reporting to ensure your stock is being kept at the required temperature range

With our MATOS[®] RFID Refrigerators there is **NO SOFTWARE** as the entire platform is web based and backed up using the Azure Cloud platform.

ETHICHECK LIMITED

Tel +44 1372 236455; www.ethicheck.eu; info@ethicheck.eu

New Zealand: Patent 596323 | Australia: Patent 2012336431 | Europe: Patent 12846969.9

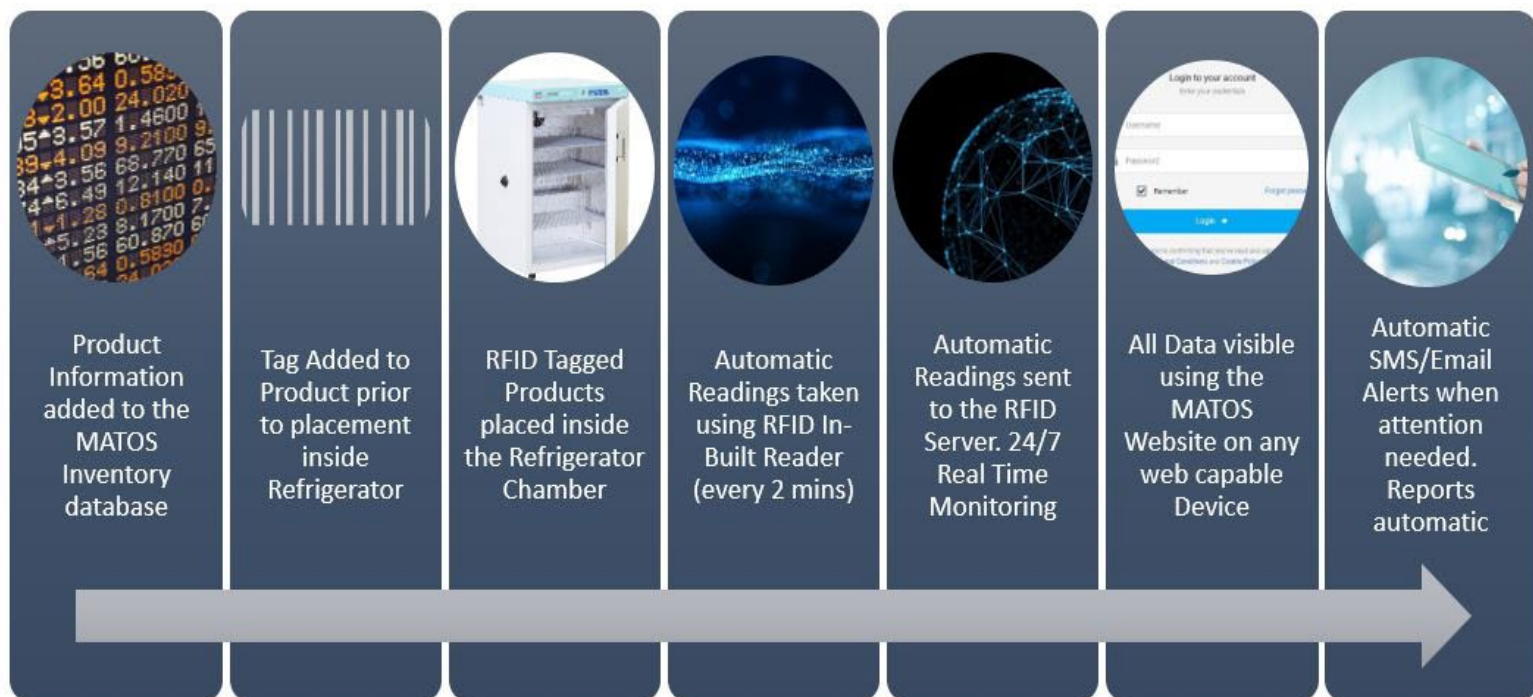


MATOS® RFID TECHNOLOGY

MATOS® RFID Technology - How does it work?

The MATOS® RFID system is very precise utilising high-powered UHF RFID antennas which are mounted on two axes, allowing for accurate reads even if product is not placed completely straight within the cabinet.

The system performs RFID Inventory scans on a regular basis, at the user's preference. By scanning regularly and upon door close, the RFID inventory is a live readout of all products within the cabinet. The system also provides the ability to create reports, both automatically sent to your email inbox, and custom reports that can be generated for any time frame or point in time.



Specifications / Features

Capacity Range Available	150L - 625L (Gross)	Air convection	Forced Air
Controller	Microprocessor with external LCD graphic display	Temperature range	0°C – +15°C
Interior	Aluminium (s/steel optional)	Regional Information	https://support.impinj.com/hc/en-us/articles/210927208-Supported-Regions-and-Geographies
Housing	Powder coated sheet (s/steel optional)	Network Management	SNMPv1, v2, v3
Temperature resolution	0.1°C	RoHS Compliant	Yes
Door Type	Solid Door	LAN connection	RJ45 ethernet
Door Lock	Yes	Door Open Alarm	Yes
Number of Antennas	3	Air Interface Protocol	GS1/EPCglobal UHF Gen2 (ISO 18000-6C) or RAIN RFID

Take a look at the Matos® demonstration site. www.matosmonitoring.com using the following login:

Username: **matosdemo1** / Password: **matosdemo1**

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RFID REFRIGERATORS

The MATOS® Cloud RFID system is an Inventory management solution, installed within the tested & proven MATOS® Cloud Pharmaceutical Refrigerators.



Specifications

Standard features	MATOS Plus-Cloud 68 R	MATOS Plus-Cloud 150 R	MATOS Plus-Cloud 200 R	MATOS Plus-Cloud 250 R
Description	On/Under-Bench	On/Under-Bench	Freestanding	Freestanding
Gross Capacity	70L	150L	200L	250L
Dimensions External	570w x 680d x 600h	620w x 650d x 860h	620w x 650d x 1060h	620w x 650d x 1260h
Dimensions Internal	470w x 300d x 430h	520w x 420d x 660h	520w x 420d x 860h	520w x 420d x 1060h
Max shelf workload	10kg	10kg	10kg	10kg
Max unit workload	20kg	30kg	40kg	50kg
Door	Solid	Solid	Solid	Solid
Weight	32kg	54kg	59kg	69kg
Shelves fit/max	2/2	3/4	3/4	4/6
Gas defrost	Optional	Optional	Optional	Optional
Door Style	Hinged	Hinged	Hinged	Hinged
Door Open Sensor	Yes	Yes	Yes	Yes
Door Open Alarm	Yes	Yes	Yes	Yes
Lock	Yes	Yes	Yes	Yes
Castors	Optional	Optional	Optional	Yes
Air convection	Forced Air	Forced Air	Forced Air	Forced Air
Controller	Microprocessor with LCD graphic display	Microprocessor with LCD graphic display	Microprocessor with LCD graphic display	Microprocessor with LCD graphic display
Interior	Aluminium (s/steel optional)	Aluminium (s/steel optional)	Aluminium (s/steel optional)	Aluminium (s/steel optional)
Housing	Powder coated steel (s/steel optional)	Powder coated steel (s/steel optional)	Powder coated steel (s/steel optional)	Powder coated steel (s/steel optional)
Colour	White/Teal	White/Teal	White/Teal	White/Teal
Temperature Range	0°C – +15°C	0°C – +15°C	0°C – +15°C	0°C – +15°C
Temperature Resolution	0.1°C	0.1°C	0.1°C	0.1°C
Temperature Fluctuation	+/- 0.5°C	+/- 0.5°C	+/- 0.5°C	+/- 0.5°C
Power	160W	170W	170W	330W
Access Port	Yes	Yes	Yes	Yes
Refrigerant Type	R1234A	R1234A	R1234A	R1234A
Web monitoring	Yes	Yes	Yes	Yes
DAQ Backup Battery (x2)	12V sealed lead acid (12V 3.5Ah)	12V sealed lead acid (12V 3.5Ah)	12V sealed lead acid (12V 3.5Ah)	12V sealed lead acid (12V 3.5Ah)
LAN connection	RJ45 ethernet	RJ45 ethernet	RJ45 ethernet	RJ45 ethernet

MATOS® Plus Refrigerators feature a Hot Gas Defrost Function. Our hot gas defrost system works by diverting hot refrigerant gas, directly into the evaporator (cooling plate), which heats the ice directly from the inside out. The defrost cycle only runs for 30 seconds (standard) to a maximum of 2 minutes. At 30 seconds, the internal air temperature raises by only 1 degree approximatley. This ensures the correct temperature is maintained within the chamber during the defrost cycle, whilst keeping the time between cooling cycles as short as possible.



MATOS Plus-Cloud 300 R	MATOS Plus-Cloud 400 R	MATOS Plus-Cloud 493 R	MATOS Plus-Cloud 625 R
Freestanding	Freestanding	Freestanding	Freestanding
300L	400L	493L	625L
620w x 650d x 1460h	620w x 650d x 1860h	660w x 810d x 1990h	750w x 860d x 1990h
520w x 420d x 1260h	520w x 420d x 1660h	510w x 650d x 1510h	600w x 690d x 1510h
10kg	10kg	20kg	30kg
60kg	60kg	100kg	100kg
Solid	Solid	Solid	Solid/Glass option
75kg	90kg	105kg	115kg
4/7	4/10	3/11	3/11
Optional	Optional	Optional	Optional
Hinged	Hinged	Hinged	Hinged
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Forced Air	Forced Air	Forced Air	Forced Air
Microprocessor with LCD graphic display	Microprocessor with LCD graphic display	Microprocessor with LCD graphic display	Microprocessor with LCD graphic display
Aluminium (s/steel optional)	Aluminium (s/steel optional)	Aluminium (s/steel optional)	Aluminium (s/steel optional)
Powder coated steel (s/steel optional)	Powder coated steel (s/steel optional)	Powder coated steel (s/steel optional)	Powder coated steel (s/steel optional)
White/Teal	White/Teal	White	White
0°C – +15°C	0°C – +15°C	0°C – +15°C	0°C – +15°C
0.1°C	0.1°C	0.1°C	0.1°C
+/- 0.5°C	+/- 0.5°C	+/- 0.5°C	+/- 0.5°C
330W	330W	400W	400W
Yes	Yes	Yes	Yes
R1234A	R290	R290	R404A
Yes	Yes	Yes	Yes
12V sealed lead acid (12V 3.5Ah)	12V sealed lead acid (12V 3.5Ah)	12V sealed lead acid (12V 3.5Ah)	12V sealed lead acid (12V 3.5Ah)
RJ45 ethernet	RJ45 ethernet	RJ45 ethernet	RJ45 ethernet

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MATOS[®] TEMPERATURE MONITORING FEATURES

MATOS[®] Temperature Monitoring is a web-based, automatic, temperature monitoring system, enabling direct access to your fridge temperatures and records anywhere, at any time.



Fully Automatic Monitoring

No manual data logging or computer programme required.

Dedicated Server

Matos[®] Monitoring features a dedicated, off site, secure server ensuring fast access speeds when information is critical.

SMS Alerting

Temperature excursions and status alarms are sent via text message within seconds.

Ease of Access

Access fridge temperatures and statuses from any web-capable device such as a computer, smartphone or tablet.

Clear Concise Information

See temperature history and fridge status at a glance with easy to read colour coded indicators.

Full Alert History

Complete alert history makes audit trails a breeze. See who has responded and action taken with the click of a button.

Automatic and Custom Reports

Get reports delivered direct to your email inbox or create custom PDF reports for any period.

Robust Database

Double backup and RAID system ensures data is kept safe and secure for over 10 years.

Battery Backup

With Matos[®] smart compact UPS built into the fridge the temperature monitoring will continue during a power failure, ensuring an uninterrupted temperature log. (Backup time up to 13 hours).

Automatic battery maintenance and smart-charging cycle ensures maximum battery life.

Outgoing Communication Only

As there are no incoming connections to the monitoring device the network security of your business is never compromised.

Self Reporting/Analysing

Self monitored device ensures any hardware problems are reported to the user ensuring quick response.

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