One Platform. Total Control.

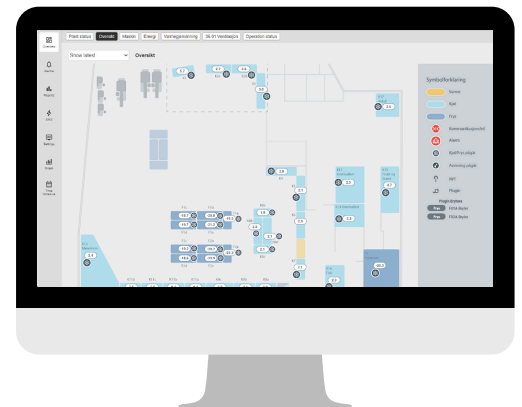# Refrigeration Management Evolved

An integrated solution for monitoring, optimising, and managing refrigeration systems with real-time data and actionable insights.

Breaking Down Barriers: Independent Refrigeration Platform

Digital Twin, in partnership with Kiona, presents a revolutionary solution for refrigeration management that combines locally manufactured IoT devices and a hybrid web-based solution for remote oversight.

By integrating Kiona's advanced SCADA system, IWMAC, with Digital Twin's IoT hardware, our solution offers real-time monitoring, seamless control, and intelligent optimisation for your refrigeration units.

Designed to streamline and elevate management across diverse systems, our collaboration empowers you with control, efficiency, and operational insights.

Key Tools

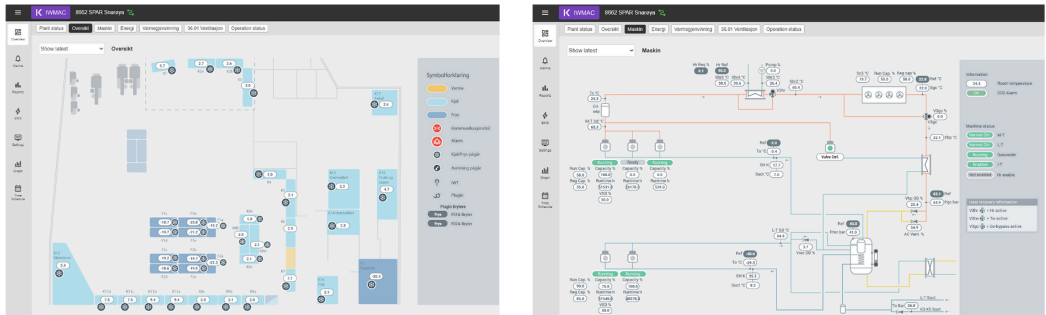|		
Monitoring & Control	Alarm Handling	Remote Control
Open API	Data Storage & Updates	24/7 Data Security
24/7 Support & Expertise	Security & Rights Management	

Kiona's SCADA System, IWMAC

IWMAC, is a hybrid web-based solution that helps monitor and control all refrigeration installations. The system provides a comprehensive digital platform that visualises, monitors, and manages operations and installations.

Comprehensive Monitoring and Control

Continuous facility monitoring/control with the ability to see plant status, access lists, temperature graphs, overview images, and display/service modes, enabling overall cost reduction.

Future-proof Flexibility

IWMAC is completely independent and supports all Control Systems across any brand, supplier, and age, making it possible to give a functionality lift on older components. Open to all types of regulators and technical systems such as:

Proactive Alarm Management

IWMAC notifies users of non-conformances such as heating, cooling, or ventilation system anomalies. In addition, you can adjust settings, block alarms, and view alert histories to streamline incident management.

Remote Access and Control

Access and manage refrigeration systems remotely, proving real-time control from any location.

Security and Access Control

Encrypted access, multi-factor authentication, and user control to ensure data safety. In addition, data is secure at all times, is stored at two data centres, and is backed up daily.

Open API Integration

Facilitates data access across various systems, integrating easily with third-party tools to maximise value.

System Add On's

IWMAC + Smart Functions - The Caretaker Who Never Sleeps
Using our smart, data-driven analysis, Smart Functions detects both physical errors and areas for optimisation to improve efficiency. Stay proactive and ahead of potential customer complaints.

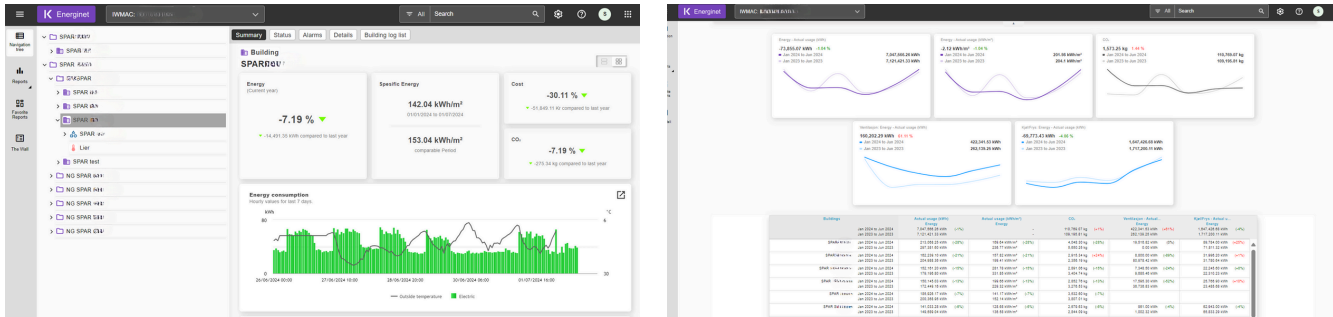**IWMAC + 24/7 Alarm Monitoring - Hands-on evaluation**
Receive fewer disruptive alarms and ensure no critical warnings are overlooked. Our alarm centre is operated by skilled, experienced people, working with round the clock monitoring of your refrigeration plant.

System Add On's

IWMAC + Energinet – For Comprehensive Analytics

Our energy and environmental management software spans the entire value chain, from sensors to reports, ensuring data quality and continuity while enabling you to manage energy consumption, uncover impactful environmental measures, and identify cost-saving opportunities through custom reporting tools.

IWMAC + Check Point – An Intuitive Digital Tool

Easily log and track temperature measures, non-conformances, and actions to maintain operational standards. Enhance routine tasks and streamline documentation for better efficiency.

IWMAC + Wireless – Quick and Easy Installation on All Kinds of Equipment

Wireless monitoring provides a fast path to comprehensive oversight. With sensors designed to monitor a variety of parameters, you're equipped with tools to detect and alert on non-conformances across your commercial property.

System Access and Interaction

Access to the system for all stakeholders, if desired.
Level Selection - Service - View - Remote Access

Key Benefits

Efficient Operations

Streamlined data and control reduce downtime, cut maintenance costs, and boost overall efficiency.

Cost Savings

Real-time monitoring and alerts lower energy consumption, prevent food waste and reduce operational expenses.

Visibility & Control

Centralised access to data across multiple sites improves oversight, increases response time, and improves decision making.

Proactive Maintenance

Predictive insights and trend analysis enable proactive maintenance, extending equipment life and preventing disruptions.

Scalability & Flexibility

Our solution is adaptable across various refrigeration units and varying technical requirements, ideal for both new and legacy equipment.

Remote Access

The IWMAC's remote monitoring ensures your system is always supported and within reach.

Digital Twin (Pty) Ltd is proudly South African.

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.CO.ZA
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