FIN ECO Specification Data Sheet

In commercial buildings, HVAC is the most energy intensive system, accounting for almost half of the building's total energy consumption (45%), while lighting consumes 26% and other utilities 29%. Of this 45%, 65% comes from the plant room, which alone accounts for 30% of the entire building, while 35% comes from air treatment and distribution systems and auxiliary systems. Therefore optimizing, controlling, and managing the plant room can deliver huge energy and cost savings.

Don't let the plant room hide savings

As experts in open software, J2 Innovations has created the FIN ECO Application Suite with the aim of helping manufacturers of plant room equipment to unlock energy savings and add further value by reducing cost of servicing, improving lifetime value, and making their equipment ready for the IoT. FIN ECO is easily customizable software that is already trusted by major HVAC equipment manufacturers to control and optimize their equipment, helping them to deliver cost savings to a range of industry professionals.

FIN ECO is ideal for a range of equipment including:



Chillers

pumps towers

Meters

What FIN ECO does

Energy optimized control of the whole plant room and individual units

FIN ECO can deliver energy savings of up to 40%* with:



- Smart sequencing FIN ECO determines the best unit sequence to be activated according to the performance profile. The algorithm detects the actual cooling and heating load required
- Plant performance monitoring FIN ECO automatically displays the real performance of key components in each individual HVAC unit, and calculates the performance levels of the single units in real time and verifies their efficiency compared to the design data

Reduced maintenance, commissioning, and operating costs

FIN ECO can deliver savings of up to 30%* by optimizing maintenance and more:



- Plant diagnostics, maintenance, and reporting receive monthly/weekly reports containing operating data and analysis. These can be sent via email or viewed online
- Plug'n'play commissioning set up the plant in the fastest and easiest way through a complete visual and guided process that does not require any programming skills
- Remote access over IoT get remote access your plant and equipment from anywhere in the world. Secure MQTT connection ensures that your data is always available where needed

Customizable and ready-for-the-future

FIN ECO is based on the open FIN Framework software platform which is fully customizable to create a flexible solution that can be modified according to the manufacturers need. It can be integrated with any building and HVAC system via open protocols such as BACnet, Modbus, OPC UA, Haystack or propriety systems, or integrated with other cloud and IT systems.

FIN ECO is natively based on the Project Haystack tagging standard and has a fully HTML5 based UX design that is mobile-friendly.

*compared to manually controlled HVAC plants

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FIN ECO - Specifications

Application suite name	FIN ECO (Acronym for Equipment Control and Optimization)
Platform	FIN Framework open framework software (current version 5.1)
Summary of standard features	 Plant performance monitoring Smart sequencing, optimization and control Plant diagnostics, maintenance, and reporting Remote access over IoT with FIN Edge2Cloud Plug'n'play commissioning Alarming Feature rich, mobile-friendly HTML 5 based user interface Natively based on Project Haystack semantic tagging standard
Protocols supported	BACnet IP, Modbus IP, Modbus RTU, KNX IP, OPC UA, Sedona, Belimo, SNMP, Obix, nHaystack, SQL, CSV, XML, RSS, Google calendar, JSON, MQTT, or proprietary systems, and more
Applications	FIN ECO can be applied to the integration of chillers, heat pumps, heat rejection equipment (including cooling towers, adiabatic cooling towers and dry coolers), and related equipment in a range of vertical sectors such as offices, hospitals, hotels, airports, factories, data centers and more
Hardware compatibility	FIN ECO is hardware agnostic and can be run on a variety of microprocessor- based platforms as per OEM requirements. See our hardware compatibility guide for more information. FIN ECO can run on Linux or Windows with minimum technical specification of 1GHz (dual core) CPU, 1 GB RAM, with JVM
Customization options	FIN ECO can be customized as per OEM requirements or combined with other applications offered on the open FIN Framework. In-house Professional Services team is available for customization and on- going support
Web user interface technology	Accessible via standard web browser on desktop, mobile and tablet. Secure remote access available through FIN Edge2Cloud technology



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