



PREMIUM HVAC SOFTWARE



I-DATA COOL

Advanced Selection & Energy Analysis
for Data Center Cooling Systems



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I-Data Cool is a web-based software solution designed for HVAC professionals to select, analyze, and compare **CLOSE CONTROL** cooling units used in technological environments such as **DATA CENTERS** and telecom rooms.

SUPPORTED UNIT TYPES

I-Data Cool manages and evaluates several types of HVAC close control systems:

Air-Cooled DX (Direct Expansion) Units

Water-Cooled DX (Direct Expansion) Units

Chilled Water-Based Cooling Units

The software supports selection of units with **Integrated** or **Remote Condenser**.

The software also supports Free Cooling configurations, including **Direct Free Cooling (DFC)** and **Intermediate Free Cooling (FC)** using FC Coils and Dry Coolers to maximize seasonal energy savings.

KEY FEATURES

Product Selection & Configuration

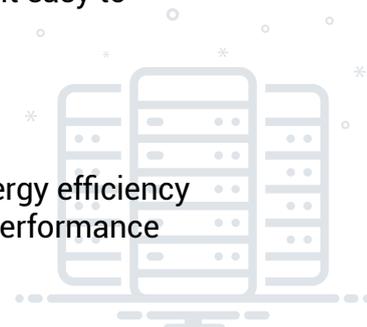
Select the optimal close control unit for your application- including standard systems and energy-efficient free cooling variants.

Energy Consumption Analysis

Once units are selected, the software provides annual energy consumption diagrams based on geographic parameters like country and climate. This makes it easy to visualize and compare performance over a full year.

EER (Energy Efficiency Ratio) Evaluation

The software generates EER efficiency diagrams, showing how unit energy efficiency varies with temperature, allowing users to **evaluate** and **compare** unit performance accurately.



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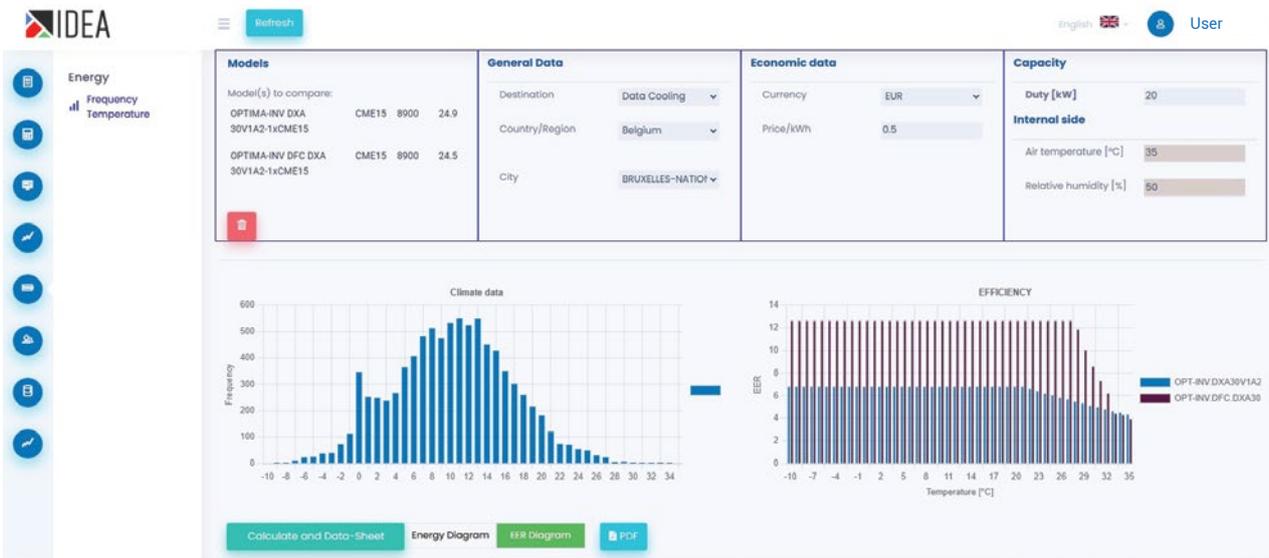
BENEFITS

Smart Seasonal Cooling Logic

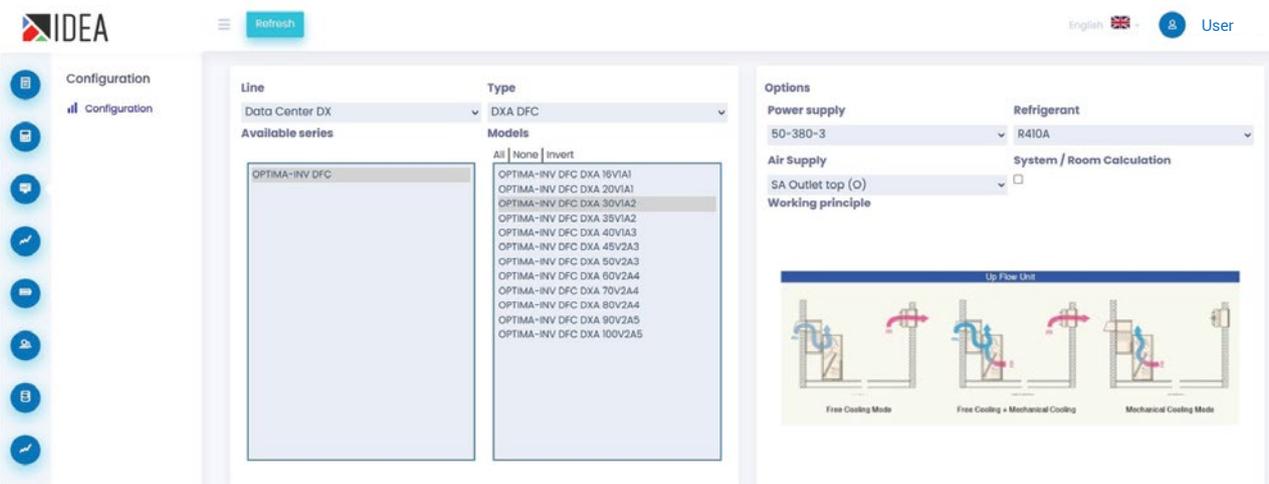
Free cooling options reduce refrigeration demand during colder months by using outside air whenever possible- resulting in significant energy savings.

Side-by-Side Unit Comparison

Compare the energy efficiency of two different units easily using visual charts-a great tool for design decisions and client presentations.



Energetic Analysis, graphs for climate data and energy consumption



Energetic Analysis, graphs for climate data and energy efficiency



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The screenshot displays the software's selection interface. On the left, under 'Line', 'Data Center DX' is selected. Below it, 'Available series' shows 'OPTIMA-INV'. The 'Type' dropdown is set to 'DXW'. Under 'Models', a list of units is shown, including 'OPTIMA-INV DXW 30V1A2' through 'OPTIMA-INV DXW 100V2A5'. On the right, the 'Options' section includes 'Power supply' (50-380-3), 'Refrigerant' (R410A), 'Air Supply' (SA Outlet top (O)), and 'Working principle' (System / Room Calculation). A schematic diagram of a refrigeration cycle is shown at the bottom right, illustrating the indoor and outdoor components like the compressor, condenser, evaporator, and expansion valve.

Selection of data center cooling unit with free cooling option

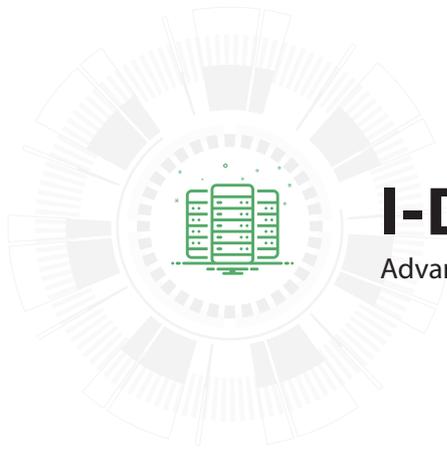
The screenshot shows the software's analysis results. The top navigation bar includes the IDEA logo, a 'Refresh' button, and user settings for 'English' and 'User'. The main content area is divided into several panels: 'Models' (listing compared units like OPTIMA-INV DXA 30V1A2-1xCME15), 'General Data' (Destination: Data Cooling, Country/Region: Belgium, City: BRUXELLES-NATION), 'Economic data' (Currency: EUR, Price/kWh: 0.5), and 'Capacity' (Duty [kW]: 20, Internal side: Air temperature [°C]: 35, Relative humidity [%]: 50). Below these are two bar charts: 'Climate data' showing frequency vs. temperature, and 'ENERGY CONSUMPTION' comparing two models (OPT-INV DXA30V1A2 and OPT-INV DFC DXA30) across a temperature range. At the bottom, there are buttons for 'Calculate and Data-Sheet', 'Energy Diagram', 'EER Diagram', and 'PDF'.

Selection of data center cooling unit with water condenser

WHO IT IT FOR

- HVAC Designers & Engineers
- Data Center Cooling Planners
- Technical Sales & Product Selection Teams

The software helps professionals optimize unit selection, evaluate energy performance, and support data-driven cooling design decisions.



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READY TO TRANSFORM YOUR DESIGN PROCESS?

Request the Demo!



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