

# PWC OFFICES GREECE CASE STUDY

Delta Techniki S.A.

## Project Overview

### Building Layout

- 22.550m<sup>2</sup> total area
- Multiple usage spaces (auditoriums, offices etc).
- Multiple levels
- Space limitations due to sophisticated architectural design

### The Challenges

- Small footprint and energy efficient concurrently.
- Low noise levels.
- Air-Conditioning and Ventilation in compliance with WELL and LEED certification requirements.



## PWC Offices / Greece

### The Technical Innovation

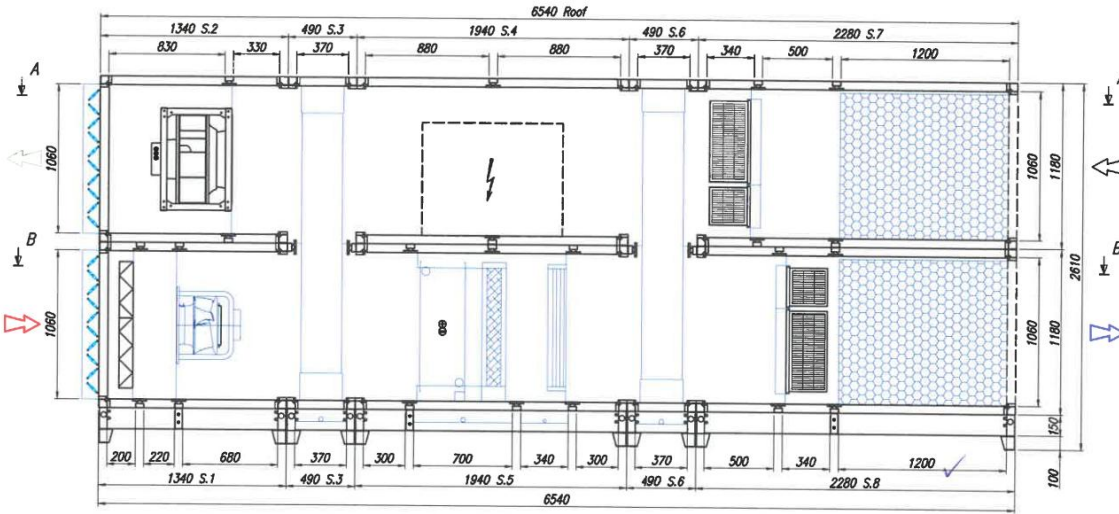
- Custom-made Air Handling Units
- Special AHU configuration with **two rotary heat exchangers**
- Integrated control panel with dedicated algorithm for each AHU's operation, as specified by the consultant and the client.

### Benefits for contractor and final user

- Factory pre-assembled control panel reduces complexity, cost and uncertainty for delivering a unique operating system.
- Contractor can incorporate each AHU in the BMS, using only a RS485 cable
- Client receives a total package fully adjusted to the project's needs saving cost, space and energy.

## Technical equipment

## AHU Configuration

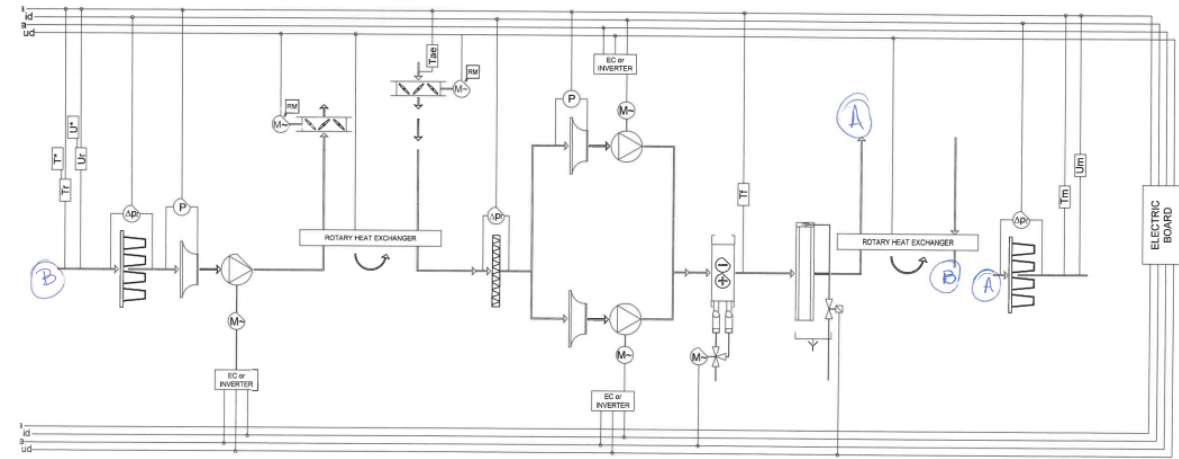


•5 i-NX-N inverter heat pumps heating capacity 388,6kw –cooling capacity 458,8kw.

- 2 AW-HT, high temperature heat pumps , heating only with heating capacity 149,6kwhhigh energy efficiency / low-noise version

- 5 air handling units with double rotary heat exchangers WZE series

## Control Logic Diagram





## Photos



