



Egyptian rehabilitation centre innovates with Grundfos

The Situation

A largest rehabilitation Centre in Egypt, a cornerstone of the country's healthcare infrastructure, was grappling with significant space constraint that threatens to impede its operations faced with the dual challenges of maximizing space utilization while upholding a commitment to sustainability, the Centre sought an energy-efficient solution that would align with its operational goals.

We are proud to have delivered a solution that not only addresses the energy efficiency and space challenges of the rehabilitation centre but also achieves 40% energy savings and significant cost reductions.

Ramy Ragaei
Senior Sales Engineer
Grundfos Egypt

The Solution

Grundfos proposed a highly efficient solution with a single pump of CRN 255 with 45 kW motor delivering a hydraulic duty of 300 m³/hr at 33 meters head, absorbing 36.2 kW.

Due to space constraints, customer preferred a vertical inline pump with highest possible efficiency. Grundfos solution was perfectly meeting requirement of both space and efficiency demands.

Next in line offer from the competitor was with 2 pumps for the same hydraulic duty absorbing around 56 kW against 36.2 kW of Grundfos solution. Highlighting how efficient our solutions could be.

By choosing Grundfos solution, the rehabilitation complex not only benefits from a significant reduction in energy consumption but also with reduced CAPEX, as a single pump offered consumes minimum space and reduced accessories such as pipes and valves. Further an OPEX reduction in terms of energy consumption was 19.82 kW less than our competitors.

GRUNDFOS 

Possibility in every drop



The Outcome

As a direct result of implementing Grundfos' advanced single-pump solution, the rehabilitation complex achieved a remarkable 40% reduction in energy consumption, underscoring the effectiveness of this tailored approach. The optimized energy usage not only aligned with the complex's sustainability goals but also translated into significant long-term cost savings, making the investment exceptionally cost-effective.

Furthermore, by consolidating the pumping requirements into a single, high-performance unit, the space constraints that once posed a serious operational challenge were fully resolved. This outcome not only enhanced the overall efficiency of the complex but also freed up valuable space for other critical functions, reinforcing Grundfos' role as a strategic partner in delivering innovative, space-saving, and energy-efficient solutions.

Grundfos Supplied

CRN 255 Pump 45 kW



CRN

*The product shown is for representation purposes only.

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