



CASE STUDY

Khansaheb Sykes Assists with Chilled Water Network Flushing on Reem Island, Abu Dhabi

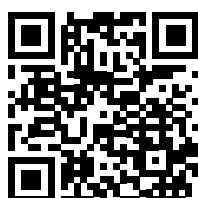
CASE STUDY

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Khansaheb Sykes was hired to support the commissioning of a chilled water pipeline at the District Cooling Plant on Reem Island. Their primary objective? To carry out high-volume flushing of the chilled water network, whilst meeting specific flow and velocity requirements.

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1 CHALLENGE

This project faced several challenges, such as difficult site conditions, with the ground being uneven and sandy with a tight working footprint.

Additionally, there were some design constraints. The client was able to provide the header pipes; however, the flange connection inlets were positioned extremely close together. They were positioned 0.5 meters apart with a 12" flange, when usually they are expected to be positioned around 2-3 meters apart in order to position the pumps.



2 SOLUTION



To overcome the tight spacing and achieve the desired flushing performance, we used high capacity and high-performance pumps. We deployed three D70 pumps and two D90 pumps, each 5 meters in length, along with the suitable suction and discharge hoses with flange adapters/reducers. This enabled us to create a close looped water circulation system. We were able to achieve the desired flowrate of 4,500/m3/hr @ 4-5 bar with a velocity of 3m/s. our solution was able to deliver consistent, efficient flushing of the chilled water lines whilst operating under challenging conditions.

3 OUTCOME

The project was successfully completed, and our client was extremely pleased with the results:

"Your manpower deployed on site demonstrated commendable professionalism, dedication, and a strong cooperative spirit throughout the duration of the project. Their efforts were instrumental in managing the operational requirements and addressing challenges efficiently. We truly value their commitment and proactive approach."

Due to the prompt service and extensive support from our team, our client is looking forward to future collaborations with Khansaheb Sykes.





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