

## CONNECT AND PROTECT

# Efficient hot water temperature maintenance at new football stadium

## PROJECT DETAILS

<b>Contractor:</b>	GSIC (Galfar / Salini Impreglio / Cimolai), JV & L&P (Leonardo - PSC), JV
<b>Rep / partner name:</b>	Petrocon WLL
<b>Location:</b>	Qatar
<b>Industry / type of plant:</b>	Commercial / Sports
<b>Application:</b>	HWAT - Hot Water Temperature Maintenance
<b>Scope of work:</b>	Supply, testing & commissioning
<b>Project start-end date:</b>	2018-2020
<b>Project requirements:</b>	Temperature maintenance in a hot water distribution network and elimination of the need for recirculation



## KEY CHALLENGES

The football stadium required a system capable of maintaining the temperature of water supplied to VIP toilet areas to ensure hot water was always available within few seconds.

The greatest challenge during the tendering phase was convincing the consultant that the nVent RAYCHEM HWAT hot water temperature maintenance system would be compatible with the existing Polypropylene (PPR) pipes.

nVent has faced strong competition but with 100% project specification compliance, alongside our extensive technical support, expertise and strategic pricing, we were able to secure the project.

## SOLUTION

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The presentation of ample technical information comprising of heat dissipation calculations, insulation details and proof of previous project references, convinced the consultant that the nVent RAYCHEM HWAT system was the right solution for the project.

The self-regulating HWAT-M model was chosen to maintain the desired temperature of 50°C, with nVent also providing installation training, testing and commissioning services for the project.

The single-pipe solution, combined with the versatile, programmable HWAT controller resulted in a 30% reduction in energy and water costs. The new single-pipe infrastructure requires minimal maintenance thanks to its proactive central monitoring system. The total length of cabling used was 600 meters and the total EHT power output required was 6kW.

## BENEFITS

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1. Maintains water at required temperature ensuring hot water ready for use.
2. Supplies hot water instantly, thereby reducing water wastage.
3. Lowers energy usage thanks to the use of self-regulating heat tracing cables.
4. Reduces capital costs by eliminating the need for recirculation pipes and accessories.
5. Helps control Legionella bacteria in hot water supply pipelines.

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