AB-QM valves & 800 actuators ensure a stable temperature, pleasant indoor climate and high energy efficiency in the Claren buildings.
“In the design phase, we convinced the contractors to use AB-QM valves due to fast installation and short commissioning. But energy savings were also an important argument. Even though the energy prices are much lower in the Gulf States compared to e.g. Europe, the awareness of energy savings is increasing in the UAE and supported by the UAE government,” says Serhan Ismail Ozten, Area Sales Manager at Danfoss.

High indoor comfort and stable temperature
The most convincing argument in favour of the Danfoss solution was the high and stable level of comfort provided by the AB-QM installation.

“When you set the thermostat the temperature will be stable due to the advanced balancing system. Even with varying outside temperatures and varying cooling demands when people are away, the delicate hydronic balancing installation will ensure the proper flow providing the desired level of cooling in every apartment,” explains Serhan Ismail Ozten who worked closely together with Mr. Abdul Latheef from engineering company WOTEK Co.

The perfectly balanced flow also explains the energy savings achieved by the Danfoss solution. When the flow rate is highly controlled and stable, the pumping required will be greatly reduced, resulting in significant energy savings.

The AB-QM valves are even maintenance-free as they contain no movable parts. Furthermore, the design of the valves prevents clogging during everyday use.

About Claren 1 & 2, Downtown Burj Dubai:
• 226,000 sq. ft. (21,000 m.) residential buildings accommodating almost 800 dwellers
• 35 floors each
• Construction period: 2004-2011
• Investor/owner: Emaar Properties
• Architect: Chicago office of Skidmore, Owings & Merrill LLP with Adrian Smith FAIA, RIBA

It was a pleasure working with Danfoss and WOTEK engineers throughout the project. The installation and commissioning support helped us in getting the valves operational in a quick and proper manner. The product itself showed high value and quality control during installation and functioning, hence the satisfaction from both contractors and building operation team.

Rida Biri, Project Manager, Penguin Engineering