



1

Lochinvar, LLC CREST® condensing boilers help campus meet some of the lowest energy targets for post-secondary schools

Lochinvar® innovative high-efficiency water heating products are represented in Canada [except Quebec] by the professionals at Aqua-Tech Sales and Marketing Inc. Working with the Toronto-based contractor, and engineering consultants, the 'team' worked to advance the most efficient and effective hot water solution to meet the needs of the Expansion of Sheridan's Hazel McCallion Campus [HMC]. The expansion project will result in a new facility on the same site, housing state-of-the-art classrooms, studios, labs and production spaces, a Centre for Creative Thinking, and a gallery space to showcase students' creativity and innovation.

Lochinvar has taken the fire-tube concept in an innovative new direction with the CREST® modulating-condensing boiler. So finding a state of the art solution was easy. With sizes that range from 750K to 6.0 million Btu/hr, the opportunity to utilize Lochinvar's leading-edge technology in HMC just made sense.

With high thermal efficiencies in low water temperature applications, CREST is positioned to provide exceptional energy-saving performance, and contributes to HMC's target of an annual energy intensity of 96 kWh/m², among the lowest for academic institutions in the country.



2

The advanced CREST® introduces a combustion system with a unique burner design with up to 20:1 turndown. The burner fires into an array of 316L stainless steel fire-tubes that transfer the heat to the surrounding water with exceptionally high efficiency.

CREST® communicates seamlessly and in real time with building management systems by utilizing an on-board Modbus protocol and BACnet MSTP. The CREST® features, as standard equipment, the next generation of Lochinvar's all-in-one SMART TOUCH™ operating control with the integration of the CON-X-US® remote connectivity advanced technology. For applications where a building management system is not available, the CON-X-US® mobile communication platform allows the SMART TOUCH™ to go where no other boiler has gone before. CON-X-US® provides the ability to monitor and manage multiple Crest® boiler plants without ever stepping into the mechanical rooms.

Yes, innovative fire-tube boiler technology integrated with the SMART TOUCH™ operating control makes the CREST® a genuine game-changer among commercial boilers and a showcase for the HMC.

HAZEL MCCALLION CAMPUS [1, 3]. THE LOCHINVAR® CREST MODULATING-CONDENSING BOILERS CONTAIN AN ARRAY OF STAINLESS STEEL FIRE-TUBES THAT TRANSFER HEAT TO THE SURROUNDING WATER WITH EXCEPTIONALLY HIGH EFFICIENCY [2]. CONFIGURATION OF THE LOCHINVAR® CREST BOILERS AND DHW [DOMESTIC HOT WATER] STORAGE TANKS [4]. PHOTOS: MCW CUSTOM ENERGY SOLUTIONS LTD.



3



4