

Dutypoint case study: Cheltenham Racecourse

Location:
Cheltenham, Gloucestershire



DUTYPOINT WINS IN GRANDSTAND FINISH

When a leading construction firm was awarded the contract for the redevelopment of the grandstand at Cheltenham Racecourse, the final stage of a 19 month, £45 million project, it was clear that the quality specified throughout would be high, in order to meet the expectations of Cheltenham's race-goers and the jump-course's regular royal visitors.

The new grandstand consists of five and a half storeys, with bars, restaurants, toilets and private boxes. Maintaining reliable high water pressure in a multi-floor entertainment venue such as the Princess Royal Grandstand is a large undertaking, and a requirement that would have to be met to deliver the customer experience expected from such a prestigious venue.

The M&E consultant in charge of the project had worked with Gloucester-based pump system manufacturer Dutypoint on a number of projects before, and so sought the help of the company's technical experts to provide the required solution.

SUPPLY AND DEMAND

The racecourse's pump system needed to deliver a constant pressure and supply, but also be able to meet the substantial difference in requirements on race days and non-race days. To achieve this, Dutypoint designed a three-pump booster set with an associated break tank. The unique system incorporated the ability to remotely vary the amount of water stored, to allow more storage on high demand race days and minimal water storage on non-race days.

With space at a premium, the package supplied incorporated an ultra-compact VR three-pump booster set, pressurisation units, pressure vessels and a break tank, and all of these were covered by the commissioning service offered by Dutypoint.

The benefit of such a service ensures that all components of the system have been correctly installed and are operating at their optimum efficiency.

PROJECT NAME

Cheltenham Racecourse

INDUSTRY SECTOR

Hotel, sport & leisure

PROJECT TYPE

Mechanical & electrical renovation

PROJECT VALUE

£45 million

PROGRAMME

19 months

COMPLETION

November 2015

PRODUCT SUPPLIED

Bespoke VR booster set



Tom Burke (left), Key Account Manager at Dutypoint, explains the selection and installation process and why the bespoke VR booster set was the ideal solution for such a complex scenario.

“The consultant tasked with the project was keen to ensure that the system installed would be able to

deliver at varying demands. A low level of storage and demand is required on non-race days, but the increase required for race days and other events is significant. By designing a tank with booster controls that can be linked to the Building Management System, tank storage levels could be pre-determined to switch between low level and maximum storage in the system to meet the peak demand on race days, whilst maintaining lower levels of storage at other times.”

TECHNICAL SUPPORT

Dutypoint places great importance on establishing and maintaining good relationships with project teams and, as part of this commitment, offers a highly trained technical support service staffed by experienced and knowledgeable advisors who are on hand to offer support and assistance at every stage of the process. Due to the bespoke nature of the product members of the technical team attended the Grandstand site on a frequent basis to assist with the set up and commissioning of the system.

Dutypoint understands the demands on project managers on site; coordinating multiple teams working on a complex site such as Cheltenham Racecourse is a significant challenge. As such, the Dutypoint team also sought to ensure equipment was delivered only when required, not weeks ahead of schedule, helping to maintain the smooth running of the project without delays, and minimising the risk of damage to expensive equipment stored on a busy site.



The Dutypoint booster set in the Racecourse plantroom



The Queen Mother Chase at Cheltenham Racecourse

RELATED PRODUCT

VR3 Ultra-Compact Variable Speed Cold Water Booster Set

The VR range of twin and triple pump booster sets are designed to produce maximum performance within a minimum floor area. Built to an impressive specification, with extensive use of stainless steel throughout, the exceptionally compact footprint completely contains the pumps, pressure vessels, manifolds, valves and control panel. BMS volt free contact, soft start, low level protection and surge protection are standard features.

