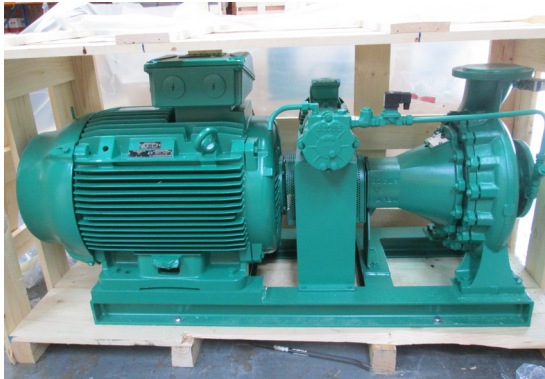




Distillery - Case Study



Case Study Information

Customer	Distillery
Location	United Kingdom

Equipment Supplied:

2 x Self Priming Centrifugal Pumps - Azcue SP-AN Range

Application	Sea Water Cooling of Heat Exchanger
Fluid	Sea Water
Flow	280 m3/h
Total Head	52m
Power	75Kw
Voltage	415v
Frequency	50Hz
RPM	1450
Execution	Horizontal
Pump Casing	Bronze
Impeller	Bronze
Shaft	Stainless Steel

IE2 Electric Motor

Motor Fitted with Anti-Condensation Heaters

Enquiry:

- ✓ Castle Pumps were approached by an engineering contractor that had been awarded the project of refurbishing a distillery. One of the key components that needed upgrading was the heat exchanger. The previous heat exchanger was using sea water for cooling, which was being fed by a standard end suction centrifugal pump that was being manually primed by the operator.
- ✓ The distillery was experiencing a lot of down time due to the pump constantly losing its prime; an engineer frequently had to travel to the remotely located pump station and manually prime the pump. It was crucial to the distillery that the pump station was fully automatic and did not require an operator to manually prime this sea water pump.

Solution:

- ✓ To ensure the pump station was fully automatic, we quoted for two centrifugal water pumps arranged in a duty/standby operation. This provides a backup pump in the event that one should fail; the distillery therefore should not experience any downtime. We selected long coupled end suction centrifugal pumps in bronze fitted with electric priming pumps.
- ✓ The electric self priming centrifugal pumps are activated by a pressure switch in the event the main pump loses its prime. This automated system ensures that no engineer needs to travel to the pump station to manually prime the pumps. This is a robust engineered solution with many fail safes, the automatic priming and standby centrifugal water pump should ensure that the distillery does not experience any downtime moving forward.