



## Aquaculture - Case Study



### Case Study Information

Customer	Aquaculture
Location	UK
Enquiry Received	8th November
Order Placed	9th March
Order Dispatched	20th April

### Equipment Supplied:

**2 x AN-EP65-125** - Long coupled self priming centrifugal pump for sea water

Type	Long coupled self priming centrifugal pump for sea water 900RPM, 17Kw 440V / 3Ph / 60Hz C/w control panel for controlling operation
Impeller	Bronze
Casing	Bronze
Flow rate	120 m <sup>3</sup> /hr at 20m head

### Enquiry:

- ✓ Castle Pumps received an enquiry from a customer in the Aquaculture industry looking to farm fish on land. They required a pump for seawater transfer to obtain seawater from the sea to fill tanks, and then circulate this sea water within the tanks every 24 hours to keep it fresh and not stagnant for the fish to breed well.

### Solution:

- ✓ We selected an AN centrifugal pump in bronze to ensure compatibility with sea water. As this application relied on the pumps to operate every 24 hours, the AN pump is perfect as having a twin bearing heavy duty design ensures the pumps have long service intervals of 4000 hours, ensuring little or no downtime.
- ✓ As the pumps would be mounted some distance from the sea, a self priming centrifugal pump with tank was selected to enable the pump to prime 135m. The pump was fitted with pressure gauges to enable the customer to easily determine if the pump was running on curve, and pressure switch to enable automatic priming if the suction pressure should drop.
- ✓ A bespoke control panel was supplied with running, tripped and warning lights, as well as amp draw, voltmeter, anti-condensation heater and hour counters to enable the customer to determine the intervals at which the pump would circulate the water within the tank.
- ✓ The pumps were manufactured, assembled and tested in 6 weeks.