

Pumps – reduce the real cost

Electricity is the most expensive part of any pumps. This simple fact is often overlooked when pumps and prices are compared, so it is worth repeating here.

It may still surprise some to learn that the purchase price and maintenance costs account for less than 15% of the total life-time cost of a pump. Obviously, this means that electricity accounts for a staggering 85% or more of the total costs. So if you want to save money, that's what you should look at.

Improve efficiency with the right pump

Getting the best overall efficiency out of your pump makes financial sense. The narrow interval between CR pump sizes allows you to eliminate the efficiency drop associated with over dimensioned pumps.

By minimising the difference between pump capacity and the required pressure and volume, you get a pump which runs as close to its optimum duty point as possible. That makes it cost efficient as possible.

Grundfos set out to improve pump efficiency of the CR multistage pump range by 10%.

This translated into a power reduction of 15-20% for the CR pumps.



How is this efficiency achieved?

1. Internal leakage caused by pressure differentials within the pump was minimised. Tests had shown that an impeller seal clearance gap of just 0.1 mm between the impeller and the chamber caused a 5% drop in the efficiency. To reduce internal leakage to an absolute minimum, Grundfos use a floating seal ring between chambers. This provides a close to perfect seal.
2. An enhanced impeller design ensures a more streamline flow in the impeller, reducing eddy flow and friction losses. Laser-welding technology facilitates unmatched accuracy.
3. State-of-the-art production technology guarantees the best possible results; the final outcome is products with near-perfect geometries and tolerances.

The Pump Company suppliers of high quality pumps for a wide variety of applications in the Industrial Process, Pharmaceutical, Food and Beverage market segments are working in partnership with Grundfos Pumps to supply some of the most reliable, innovative and cost efficient pumps available.

The CR range of Multistage Centrifugal Pumps suitable for liquid transfer in washing systems, cooling and air-conditioning systems, water supply systems, water treatment systems, fire fighting system, industrial plants and boiler feed systems.

Flow: 120m³/h
Temperature: -40°C to + 180 °C

Head: 250m
Operating Pressure: max 33 bar

Main features:-

- Unique Cartridge seal design
- Innovated Spacer Coupling
- Magnetic Drive option
- Numerous Pump sizes for Better Efficiency
- Choice of Materials
- Different Connections
- Various Motor options
- Integrated Variable Speed Drive (optional)
- Dry Running Protection (optional)

So if you want to reduce your real costs, look no further than the CR range of multistage Centrifugal Pumps available from **The Pump Company**.

Another example of “**Solid Answers to Fluid Questions**”

