

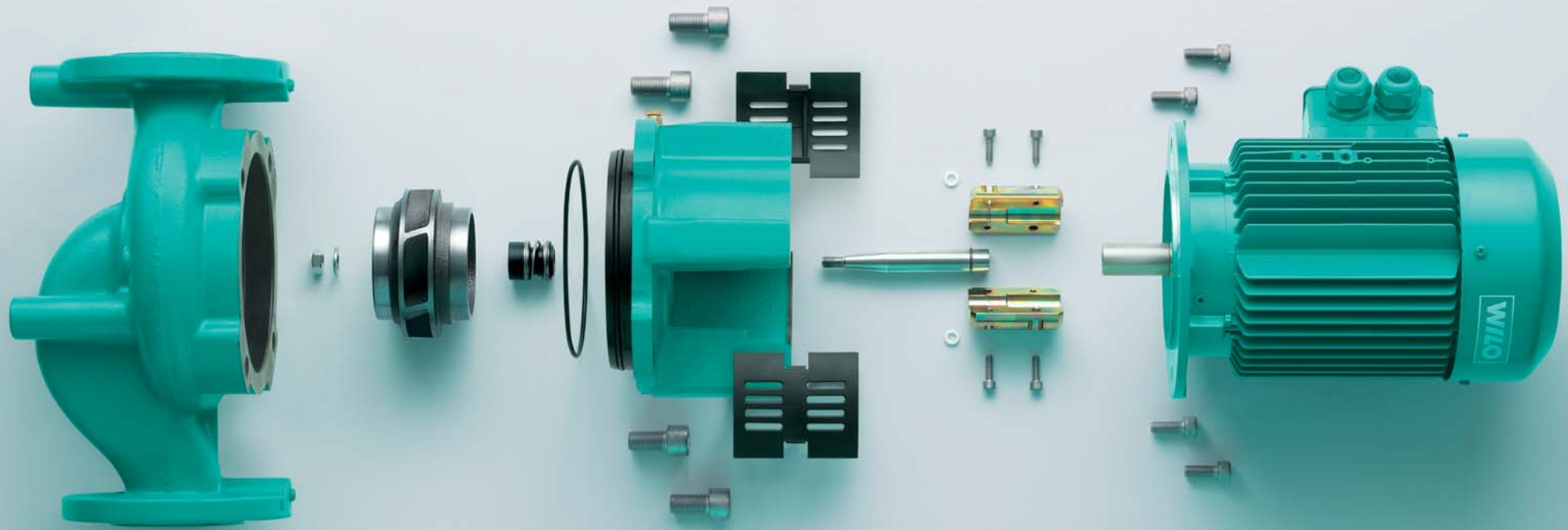
Glanded pump
Wilo-Crono.

Product brochure.



Pumpen Intelligenz.





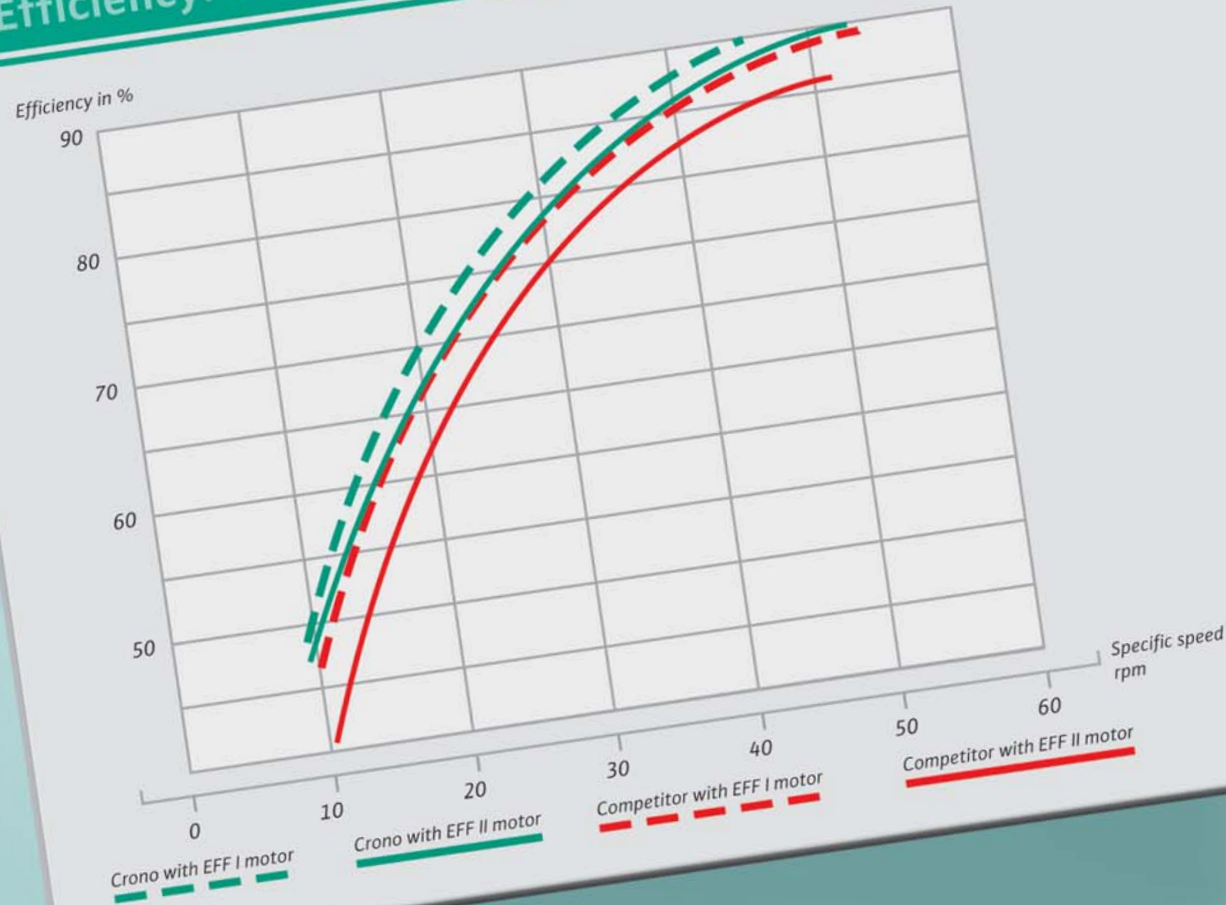
$$\text{Hydraulic EFFiciency} + \text{Motor EFFiciency} = \text{EFF-IQ}$$

The sum of all parts.

A number of factors are decisive for the energy efficiency of a pump. Especially important is the efficiency of the hydraulics. The Wilo-Crono series sets standards in respect of design, manufacture and efficiency. And the choice of motors lets you use further potentials for energy saving.

But even the maintenance efficiency of important components has a decisive influence on the overall efficiency of the pump. Taking all of these factors into account, the Wilo-Crono offers overall the greatest efficiency in dry-runner technology.

Efficiency: Wilo-Crono glanded pump



$$\text{Hydraulic EFFiciency} + \text{Motor EFFiciency} = \text{EFF-IQ}$$

Consideration of the efficiency of the motor alone only gives you half the truth. The combination of motor and hydraulics is the only way to gain a transparent and reliable yardstick: the overall efficiency (EFF-IQ). And this is where the outstanding hydraulic design of the Wilo-Crono comes into its own. It is down to this that the pumps in this series, even when

specified with EFF II motors, achieve the same or higher overall efficiency than pumps of other manufacturers with EFF I motors. When fitted with EFF I motors, Wilo-Crono pumps reach the highest overall efficiency among all of the competition. An investment that more than pays off over the long term, especially in the upper performance range.

Wilo-Crono glanded pump. Perfect hydrodynamics for optimal efficiency levels.

Hydraulic EFFiciency

Harmony of forces.

The perfect development of forces in the hydraulics of Wilo-Crono glanded pumps is above all down to extremely precise matching of rotor and pump housing. Thanks to the latest hydrodynamic findings and the use of ultra-modern methods, our development engineers have succeeded in keeping flow energy losses extremely low, thus achieving optimal efficiency. The particularly smooth interior surfaces of the housing and rotor are fundamental to this. In addition, the geometry of the pump housing has been designed so that separation and unwanted deflection of the flow are largely ruled out. This also means that there is a noticeable reduction in axial and radial forces, providing smoother running and better operating reliability.

Flow made to measure.

Owing to perfect design and precise manufacture, the gap dimensions of the hydraulic components are kept extremely small without risking rotor locking, despite the axial and radial forces that are present. Wilo has all the production engineering capabilities required for this exceptional level of precision. Small gap dimensions have an extremely positive effect on flow behaviour: internal recirculation between suction and delivery sides within the hydraulics is reduced to a minimum. That also helps achieve high pump efficiency. A positive effect of perfect design is that the loads on wearing parts – bearings and mechanical seals – are reduced and their service life is significantly longer.



The perfect geometry of the rotor in terms of hydrodynamic aspects is developed using the latest computer technology.



Precision work: the extremely accurate arrangement and orientation of the blades in the rotor enable optimal development of force.



Smallest possible gap dimensions at the junctions between housing and rotor guarantee optimal pressure and flow conditions.

Wilo-Crono glanded pump. Ultra-modern motor technology for optimal efficiency levels.

Motor EFFiciency

Master of all classes.

Through outstanding hydraulics alone, the glanded pumps of the Wilo-Crono series win over with exceptional efficiency. If needed, this can even be further increased through selection of an appropriate motor. Wilo offers powerful motors in very high efficiency classes for this purpose. To illustrate, the Wilo-Crono is fitted as standard with an energy-saving EFF II motor, but can be supplied with an even more efficient EFF I motor if required. But whichever motor you decide on, Crono motors are standard units that, even after many years of service, can be replaced without any difficulties.

Save energy intelligently.

And things get even more efficient if you decide on an electronically controlled Wilo-Crono. For, in contrast to the standard models, these are specified with an integrated frequency converter. This latest Wilo technology enables extraordinarily precise control of pump speed – and thus energy savings of up to 50%*. The pump intelligently matches its speed to the demand and consumes only as much energy as is actually needed. A further advantage of electronic pumps: they offer optimal capabilities for communication in building automation systems.

* Compared to standard pumps.

EFF I

EFF II



Ensuring an energy-saving drive with the Wilo-Crono series: motors of efficiency classes EFF I and EFF II.



The Wilo-Crono is also available with electronic speed control, if required: made by Wilo in Dortmund.



The red-button technology in the Wilo-Crono electronically controlled models enables optimal usability.



Pumpen Intelligenz.

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