

be think innovate



GRUNDFOSX

WE'VE MOVED THE LIMITS. YOU CAN TOO.

The new and extended generation of Grundfos CR pumps moves the limits of the possible with world-class efficiency upgrades and flow sizes up to 1,400 gpm at the best efficiency point.

The world has changed in so many ways since Grundfos invented the world's first vertical multistage centrifugal inline pump back in 1972. But our drive to keep moving the limits of the possible for our customers has always remained the same.

That is why we are so proud to announce the launch of the new generation of Grundfos CR pumps. With three new large flow sizes, up to 580 psi pump pressure and significant energy efficiency upgrades, the CR range opens whole new worlds of opportunity for engineers.

We can't wait to see where you take it.







VIRTUALLY UNSTOPPABLE

The CR range is based on more than four decades of continuous adjustment and refinement since the initial launch of the CR pump in 1972, so it is hardly surprising that its reliability is unsurpassed in the industry.

During the design stage, every step has been taken to ensure that pumps in the CR range - often used in applications where uptime is critical – are virtually unstoppable.

To make absolutely sure, we test all our CR pumps thoroughly before they are allowed to leave the factory. And we do mean all of them – not just a random sample here and there.



TURNING **SIMULATION INTO REALITY**

Following 10,000+ simulations during the design process, the new generation of Grundfos CR was subjected to rigorous realworld testing before going into production.

- · Hydraulic performance test
- $\cdot \ \text{Vibration test}$
- · Start/stop test
- · Corrosion test
- · Water hammer test
- · High temperature test
- · High pressure test · Shaft seal test
- · Field tests





APPROVALS AND **CERTIFICATES**

All relevant approvals and certificates are available for pumps in the CR range - including pump & motor performance, materials, food & drinking water, ATEX and offshore.

Find yours at grundfos.com/cr





optimised to improve hydraulic efficiency and

overall pump performance.

New seal rings reduce pump

recirculation to improve overall efficiency.





UNLIMITEDOPTIONS

The Grundfos CR range gives you almost unlimited customization options, all the way from flow sizes, horizontal/vertical mount and materials to pressure ratings, connections and motor sizes.

With millions of possible variants in the CR range alone, you can always build a Grundfos CR pump to match your exact specification – whatever the application.





MULTIPUMP SOLUTIONS

Cascade control is the most energy-efficient solution in applications with great fluctuations in demand or rare high peak flow demands.

The CR range forms the backbone of our pretested plug-and-play HYDRO MPC booster systems. These thoroughly performance-optimised systems are available in configurations with up to six CR pumps of your choosing – allowing for flows up to 8,453 gpm.

PERFORMANCE CONTROL

In most applications, you can significantly improve energy efficiency by controlling pump performance – particularly if there is great variation in demand.

The Grundfos CUE drives are specifically optimised for pump operation and available in all voltages and frequencies for pumps in the CR range.

CR pumps up to 30 HP can be fitted with either integrated drives (CRE) or stand-alone drives (CUE).

For the large CR/CRN range, we offer plug-and-play drives that can even be preconfigured and tested to suit your specific needs.

All CR pumps can be connected to a CIU unit to enable communication with and data transfer to SCADA and BMS systems.



CUSTOMIZE YOUR CR



DIFFICULT LIQUIDS

To prevent contamination by toxic, aggressive, odorous, flammable, crystalising, hardening and/or sticky liquids, we offer magnetic-drive pumps or CRN pumps with double shaft seals (either back-to-back or tandem).



ULTRA-PURE WATER

To meet the special challenges of ultra-pure water applications, CRN pumps are available in migration-free execution (carbon-free and/or clean & dry models).



HORIZONTAL MOUNT

Horizontal mount CR pumps are available on request for installations with limited height, in earthquake-prone areas or aboard ships.





HIGH TEMPERATURE LIQUIDS*

For liquid temperatures in excess of 248°F, we recommend our air-cooled seal solution for CRN pumps. These air-cooled tops can handle water temperatures up to 356°F and oil temperatures up to 464°F.



LOW NPSH*

CR pumps can be fitted with a dedicated low-NPSH stage to avoid cavitation in installations with poor inlet conditions.



ATEX/EX*

Pumps in the CR range can be delivered with explosion-proof motors and ATEX approval on request.

*Not available on some models.





