

**GRUNDFOS CR-H**  
INTERCHANGEABLE ANSI SOLUTIONS



GRUNDFOS   
INDUSTRIAL SOLUTIONS™

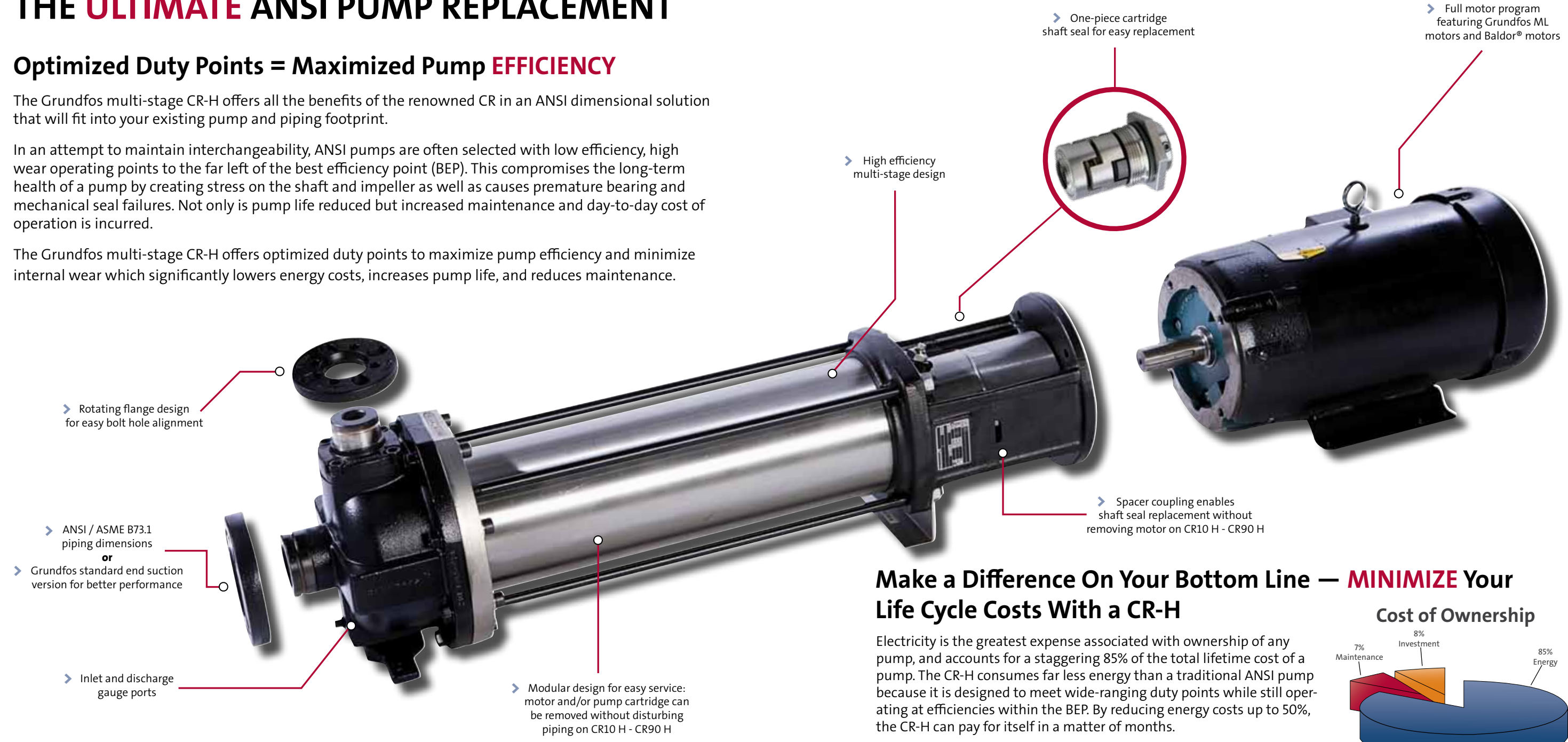
# NEW AND ONLY FROM GRUNDFOS: THE **ULTIMATE** ANSI PUMP REPLACEMENT

## Optimized Duty Points = Maximized Pump **EFFICIENCY**

The Grundfos multi-stage CR-H offers all the benefits of the renowned CR in an ANSI dimensional solution that will fit into your existing pump and piping footprint.

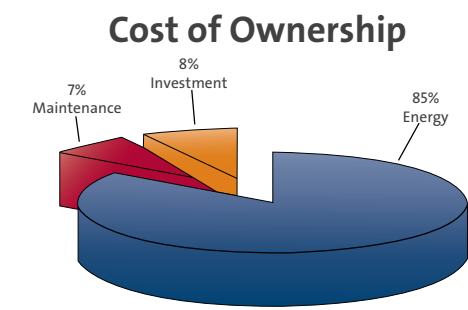
In an attempt to maintain interchangeability, ANSI pumps are often selected with low efficiency, high wear operating points to the far left of the best efficiency point (BEP). This compromises the long-term health of a pump by creating stress on the shaft and impeller as well as causes premature bearing and mechanical seal failures. Not only is pump life reduced but increased maintenance and day-to-day cost of operation is incurred.

The Grundfos multi-stage CR-H offers optimized duty points to maximize pump efficiency and minimize internal wear which significantly lowers energy costs, increases pump life, and reduces maintenance.

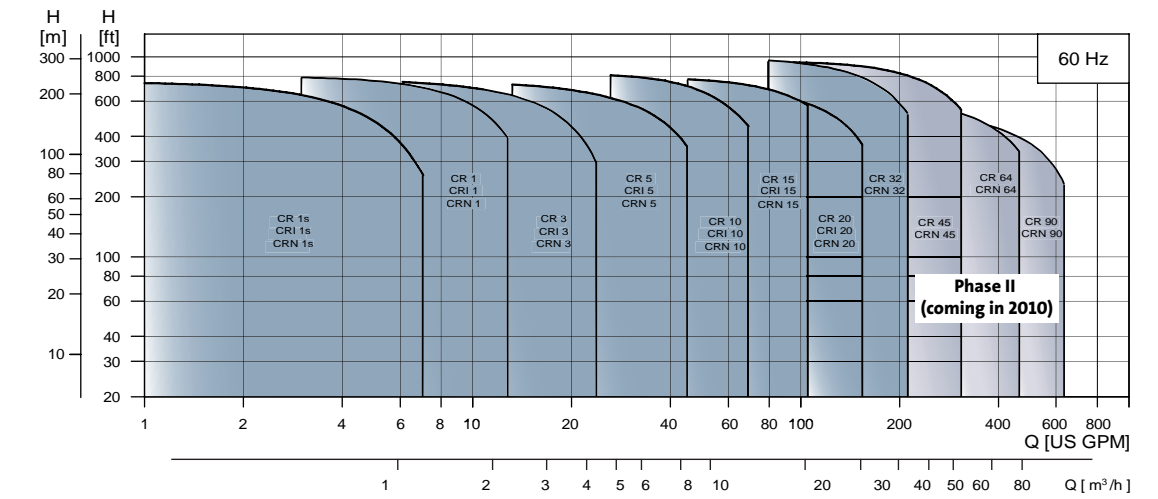


## Make a Difference On Your Bottom Line — **MINIMIZE** Your Life Cycle Costs With a CR-H

Electricity is the greatest expense associated with ownership of any pump, and accounts for a staggering 85% of the total lifetime cost of a pump. The CR-H consumes far less energy than a traditional ANSI pump because it is designed to meet wide-ranging duty points while still operating at efficiencies within the BEP. By reducing energy costs up to 50%, the CR-H can pay for itself in a matter of months.



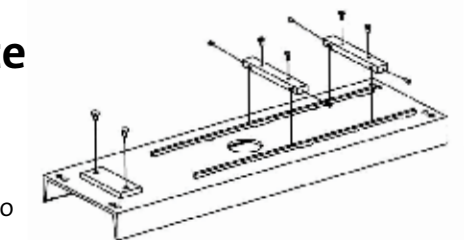
## CR-H Product Range



Technical Data	Connections ( Inlet x discharge )	
<b>Phase I</b>	<b>Phase I</b>	
Flow, Q: max 210 gpm	GA: 1.5 x 1	
Head, H: max 995 feet	G05: 2 x 1	
Liquid temp: -22°F to 248°F	G22: 2 x 2 (Grundfos version)	
Working Press: max 435 psi		
<b>Phase II (coming in 2010)</b>	<b>Phase II</b>	<b>Grundfos Version</b>
Flow, Q: max 630 gpm	GB, G50, G20: 3 x 1.5	G33: 3 x 3
	GC, G10, G60, G30: 3 x 2	G44: 4 x 4
	G70, G40: 4 x 3	

## Optional Grundfos Baseplate

The CR-H can often be mounted to the existing baseplate with some modifications at the site. In new installations, many installers will fabricate their own baseplate for CR-H pumps. Grundfos also manufactures high quality, epoxy powder coated steel baseplates for use with CR-H pumps. Grundfos baseplates have an innovative "slide mount" feature that makes the CR-H even easier to install and service.



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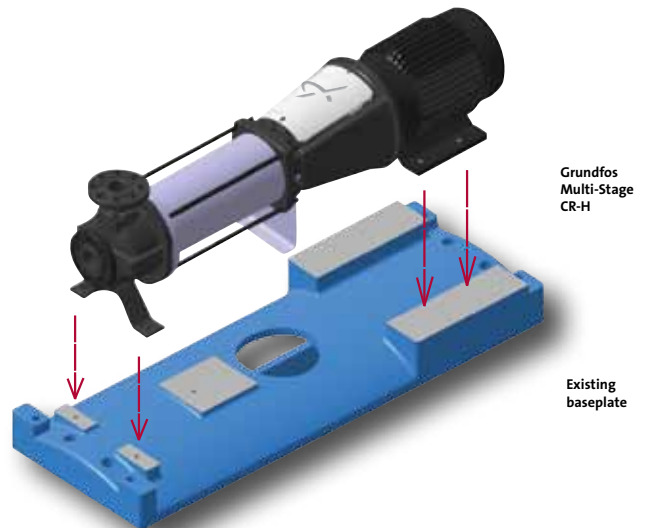
## THE CR-H OFFERS **SAVINGS** YOU CAN TAKE TO THE BANK — FROM INSTALLATION TO DAY-TO-DAY OPERATION

### Plug 'n Play Retrofit

The Grundfos CR-H can bolt directly into the piping and pump case footprint of a traditional ANSI pump. Simply remove the existing pump assembly, add a motor riser block and install the CR-H on the existing baseplate.

### The Ultimate in Dimensional Interchangeability

Increased system pressure demands on a traditional ANSI pump may require a complete pump replacement due to its single impeller diameter limitation. This means expensive modifications to your foundation and piping. However, the unique design of the multi-stage CR-H allows you to expand your pressure range by adding additional stages, and even up-sizing the motor if necessary, without piping or foundation changes.



### Reduce Your Downtime — Seal Changes in Under an Hour

Mechanical seal failures account for more than 75% of all pump failures. Besides parts and labor, production downtime can further increase costs associated with seal changes. In a traditional ANSI pump, the entire back pullout assembly must be removed from the baseplate and transported to a maintenance shop where the pump's seal is replaced. This undertaking can take several hours. The CR-H cartridge seal can be replaced right on the spot without pump removal, disassembly, or pump-to-motor alignment, and be completed in as little as 30 minutes. The result? Significant cost savings of labor and downtime, and in addition, maintenance personnel can be freed up to focus on other plant needs.

### E-Pump Option — Maximum Flexibility, Paramount Efficiency and Energy Savings

The Grundfos CR-H is available with variable speed functionality, offering total control of your pumping system while providing **even more** flexibility and as much as 80% reduction in energy costs.

Building on Grundfos' reputation of the first company to develop a multi-stage in-line pump, our commitment to providing innovative solutions aligned with the needs of our customers is demonstrated in our new horizontal end suction centrifugal pump — the CR-H. Matching customer requirements with features unique to Grundfos, the CR-H provides superior reliability, premium efficiency, and the lowest possible cost of ownership to ANSI pump users.

Visit [www.grundfos.us/crhpumps](http://www.grundfos.us/crhpumps) for more information

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