



HCR Series Vertical Multistage

MCKARLEN



INDUSTRIAL STRENGTH MEETS INDUSTRIAL PERFORMANCE

HCR is a centrifugal multi-stage in-line pump suitable for a wide range of duties. This type of pump can be used for building services as well as various industrial applications.

The maximum liquid temperature of HCR pumps is 120°C. Normal temperature type is -20°C up to 70°C. It may be necessary to use a motor with a higher output power rating for the above unique application.

HCR are not self-priming pumps. Pump intake and discharge are located on the same axis, at the bottom of the pump. A standard mechanical cartridge seal in the shaft inlet separates the electric motor from the pump. The liquids must not chemically attack the pump materials. When pumping liquids with a density or viscosity which are higher than that of water, a motor with a higher output power rating shall be used.





Technical Data

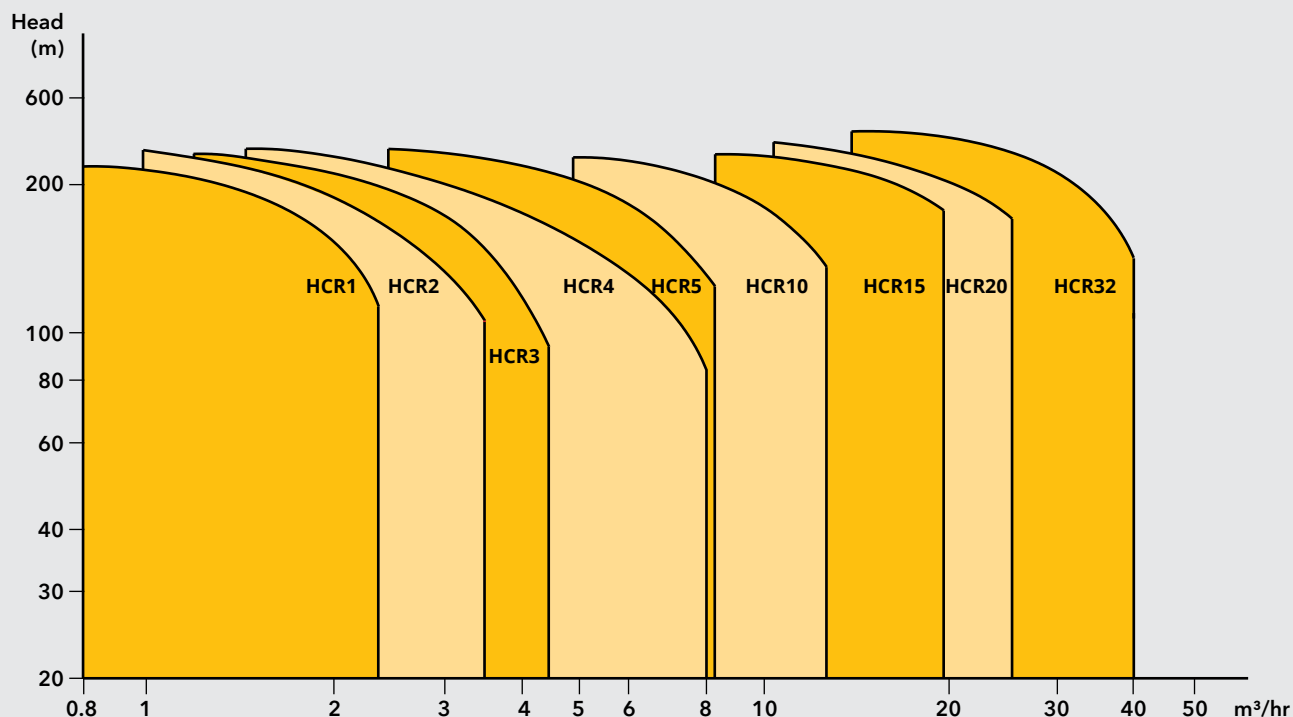
- Liquid temperature: -20°C - $+200^{\circ}\text{C}$
- Flow ranges: 0.7 - 240 m^3/h
- Liquid pH value: 4 -10
- Max. ambient temperature: $+40^{\circ}\text{C}$
- Max. operation pressure: 25 bar
- Altitude: up to 1000 m

Application

- The pumps could be used for transferring liquids of low viscosity, non-inflammable and non-explosive and should not contain solid particles or fibers where they could damage the pump.
- Water distribution, transfer and pressure boosting for building services, industrial and municipal waterworks.
- Backwashing and cleaning, boiler feeding, cooling water circulation, air conditioning and water treatment plants.
- Filtration systems, reverse-osmosis systems, distillation systems, separators.
- Agricultural irrigation, sprinkler irrigation, drip-feed irrigation
- Food & beverage industry
- Car washing
- Fire-fighting system



Performance



Pump Range

Description	HCR1	HCR2	HCR3	HCR4	HCR5	HCR10	HCR15	HCR20	HCR32
Rated Flow [m³/h]	1	2	3	4	5	10	15	20	32
Flow Range [m³/h]	0.7-2.4	1.0-3.5	1.2-4.5	1.5-8	2.5-8.5	5-13	8-23	10.5-29	15-40
Max. Press [bar]	22	23	24	21	24	22	23	25	28
Motor Power	0.37-2.2	0.37-3	0.37-3	0.37-4	0.37-4	1.1-7.5	1.1-15	1.1-18.5	1.5-30
Pump Efficiency	45	46	55	59	60	65	70	72	78
DIN Flange	DN25	DN25	DN25	DN32	DN32	DN40	DN50	DN50	DN65
Temperature	-20°C -/+ 120°C								

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