



Pumps

for the beverage and food industry
and for aseptic processes

The hygienic centrifugal pump for absolute process reliability



Type H1CP 180, 210 and 230

Characteristics

- Standard motor type B35 according to IEC, energy efficiency IE3
- All seals flush mounted; therefore no recess or dead space in the housing
- Nominal connection widths: DN 50 – DN 100 (DIN 11851, DIN 32676 etc.)
- Housing connection via clamps, the housing is therefore infinitely rotatable by 360°
- Pump installation via motor base



Type H1CP 165

Characteristics

- Standard motor type B14 according to IEC, energy efficiency IE3
- All seals flush mounted; therefore no recess or dead space in the housing
- Nominal connection widths: DN 25 – DN 50 (DIN 11851, DIN 32676 etc.)
- Housing connection via clamping ring, the housing is therefore infinitely rotatable by 360°
- Pump installation via lantern base

Overview of our product range

Pumps
Hygienic centrifugal pump



Hygienic valves
Shut-off & separation



ESL valves
Shut-off & separation



Valves for protection



Control valve
Controlling



Aseptic valves
Shut-off & separation



Sampling valve
Sampling system
Sampling



Valve control head
Feedback



Valve manifold
Automation



Tank safety and cleaning systems

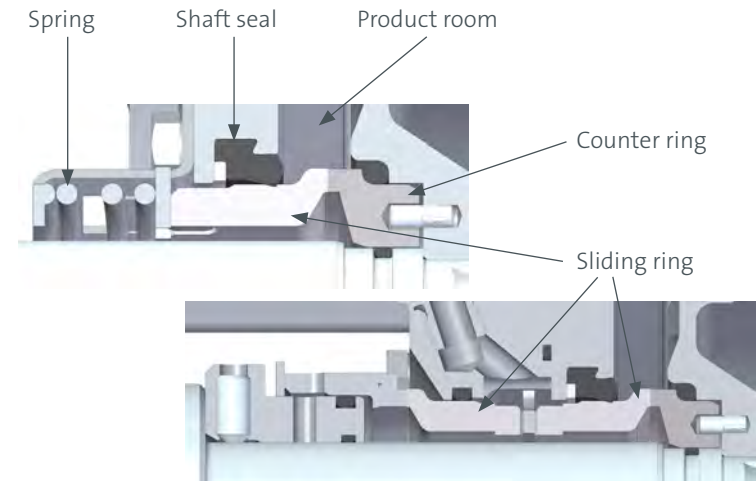


The single-acting mechanical shaft seal

- Modular design with only one size → variance and cost reduction of the spare parts
- Dismantling of seal via the impeller → fast and easy maintenance
- Spring not installed in the product chamber → hygiene in accordance with the EHEDG regulation
- No dynamic seal on the shaft → shaft is no wear part

The rinsed mechanical shaft seal

- Utilisation of the same parts of the single-acting seal
- Shaft seal in the cover is rinsed and cleaned from the back
- Very easy conversion from single to double-acting



Variants



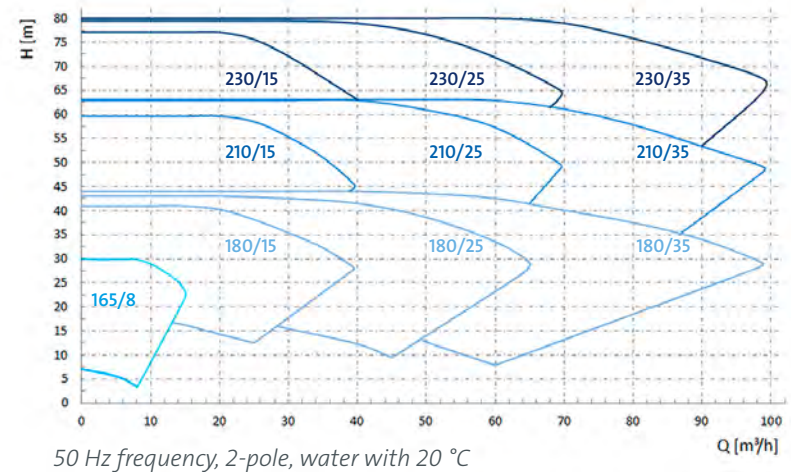
Mobile pump
up to 7.5 kW

Pumps pressure level
PN 25



Design of all pumps in accordance with the European Machinery Directive 2006/42/EC

Performance characteristics of H1CP pump



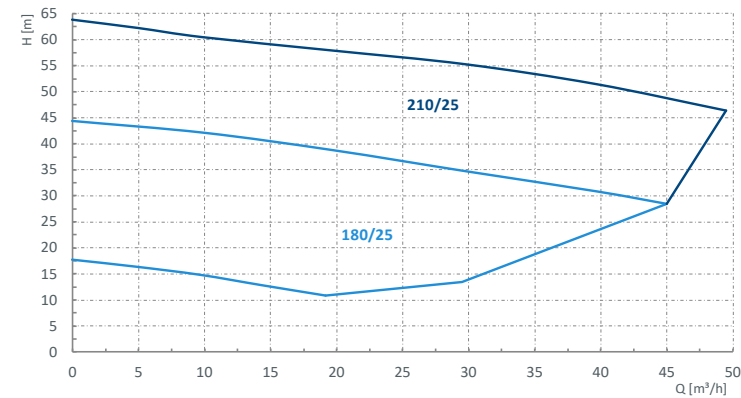
Self-priming centrifugal pump HSCP

The new self-priming centrifugal pump HSCP fills a gap in the EVOGUARD pump range. By combining the established H1CP pump with a suction rotor, a very powerful and efficient pump could be developed, which in addition reflects the high EVOGUARD quality standards.

In this fashion, the new pump can not only reach a high suction level, but, even more importantly, an exceptional suction performance regarding the speed of venting pipelines. This makes the HSCP the most powerful pump on the market.



HSCP characteristics



Frequency 50 Hz, 2-pole, water 20 °C

Technical data

- Elastomer sealings according to FDA (EPDM, FKM)
- Material 1.4404/AISI 316L
- Mechanical shaft seal single or flushed
- Motor IE3, type B35 according to IEC
- Pump installation via motor base
- Pipe connection DN65 (DIN 11851, DIN 32676 etc.)
- Housing connection via clamp and clamping ring

Performance data (50 Hz)

- Flow rate up to 50 m³/h
- Delivery head up to 60 m
- Temperature 95 °C (higher on request)
- Operating pressure max. PN 16
- Low NPSH values
- Suction performance up to 7.5 m
- Fastest venting of pipelines

Self-priming centrifugal pump HSCP

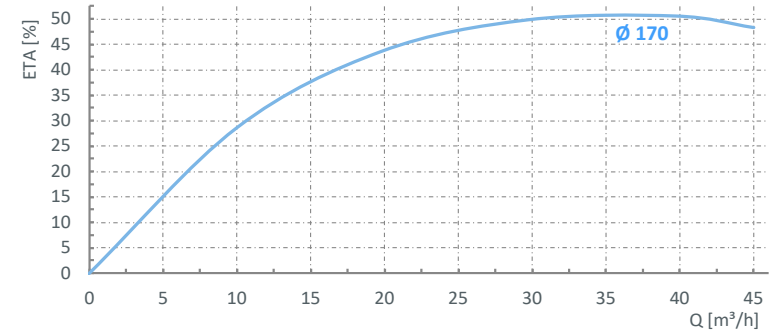
As the self-priming pump HSCP is based on the well-established H1CP pump, many components are identical for both. There is also an analogy with regard to the chosen raw material: for the HSCP type, as for H1CP, all parts with product contact are made of solid material, ensuring a very high quality of both components and surfaces.

- Parts in contact with product are made of solid material
- Same mechanical shaft seal as H1CP
- Patented return flow nozzle for fastest suction
- Only one size of mechanical shaft seal used

Your benefits

- Fastest venting of pipelines
- Same parts and spare parts as H1CP
- Perfect and fast cleaning
- Low noise level
- Energy saving due to high efficiency
- Smooth surfaces, high pressure resistance
- Easy and fast maintenance
- Sealing failure easily detectable

HSCP 180/25 efficiency



Frequency 50 Hz, 2-pole, water 20 °C



Overview of our pump product range

Hygienic centrifugal pump
H1CP 180-230



Hygienic centrifugal pump
H1CP 165



Self-priming
centrifugal pump HSCP



Mobile pump



Technical data

Design	Hygienic centrifugal pump single stage (normal priming)	
Production data	Capacity Delivery height Maximum operating pressure Temperature Viscosity Low NPSH values	Up to 100 m ³ /h with water Up to 80 m water column PN 16 (on request also PN 25) 95 °C (higher temperatures on request) Up to 400 mPas (cP)
Material	In contact with the product Not in contact with the product Mechanical shaft seal Seals	1.4404/AISI 316 L (of solid material) 1.4301/AISI 304 Silicon carbide (Q)/carbon (B) EPDM/FDA and USP class VI (other materials available on request)
Surface	Housing (in contact with the product) Impeller Not in contact with the product	Ra ≤ 0.8 µm Ra ≤ 1.6 µm Ra ≤ 0.8 µm on request Ra ≤ 1.6 µm
Connection: Type and nominal diameter	FN grooved flange FN1 (similar to APV) M threaded stub DIN 11851 SM threaded stub DIN 11864-1-A SF grooved flange DIN 11864-2-A SC grooved clamp connecting piece DIN 11864-3-A C clamp connecting piece DIN 32676 MB BioConnect R threaded stub FB BioConnect R grooved flange Additional types on request All connections can be delivered with nominal diameters acc. to DIN EN 10357 series A (DN) and several according to series D (OD).	
Optional	Adjustable machine feet Stainless steel motor hood Inducer for low NPSH values Pump with carriage Motor with installed frequency inverter	

company / cust.- ID Kunde / Kundennummer			
1	contact person Ansprechpartner	phone Telefon	
	project Projektbezeichnung	reference Referenz	
production data Förderdaten			
2	flow rate Fördermenge	m ³ /h	ambient temperature Umgebungstemperatur
	delivery head Förderhöhe	m	altitude above sea Aufstellhöhe über NN
	CIP flow rate Fördermenge Reinigung (CIP)	m ³ /h	CIP delivery head Förderhöhe Reinigung
3	application Anwendung	<input type="checkbox"/> non-self-priming normalsaugend <input type="checkbox"/> self-priming selbstansaugend	<input type="checkbox"/> hygienic hygienisch
4	seals material Werkstoff Dichtungen	<input type="checkbox"/> EPDM	
pumped liquid Fördermedium			
5	medium Medium		
	density Dichte		
	cleaning medium Reinigungsmed		

Request form for EVOGUARD pumps available at: www.evoguard.com