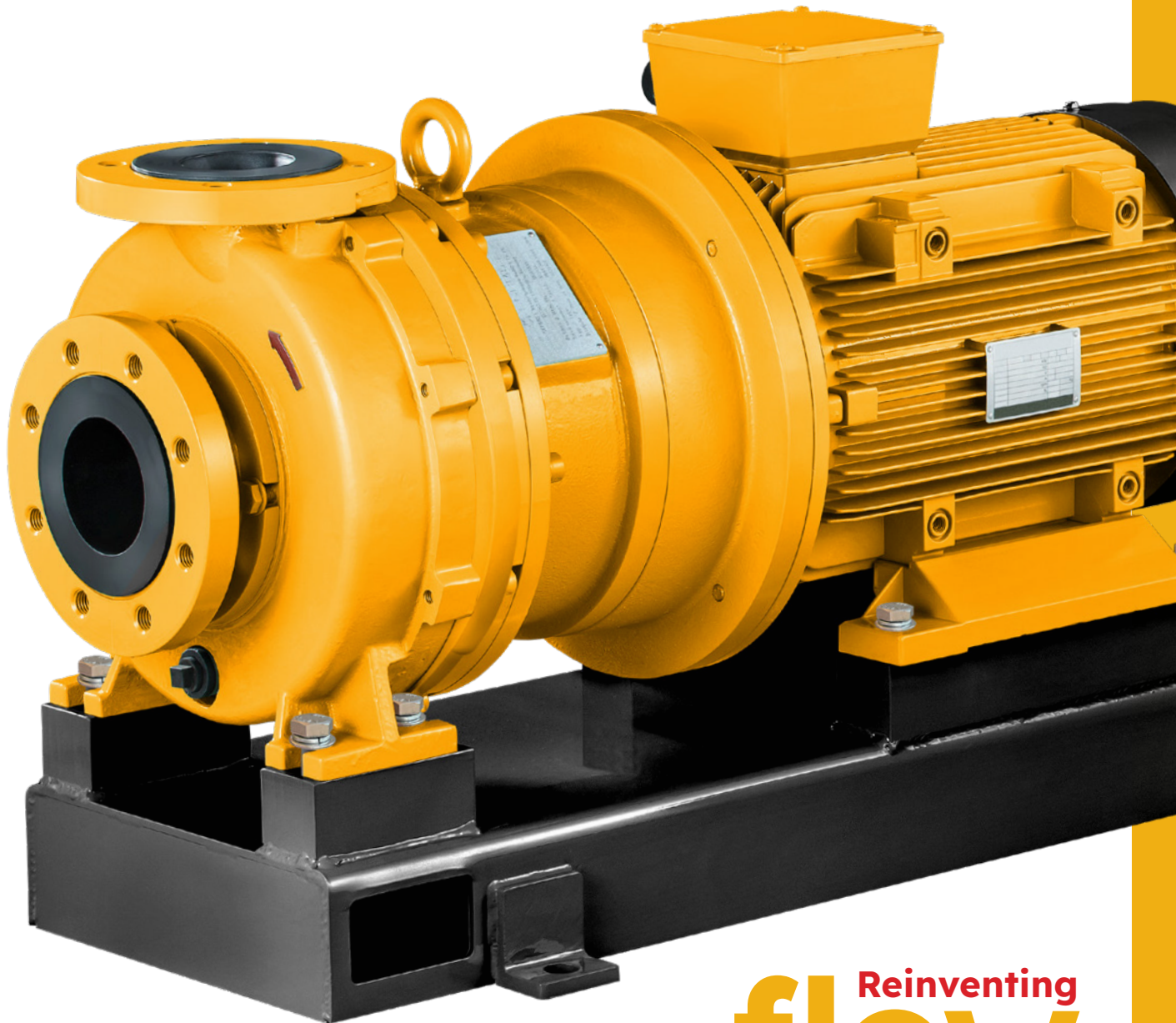


# NEOCHEM

## BASE

Standardized Chemical Pumps  
ETFE-lined with Magnetic Coupling



Reinventing  
**flow.**  
Since 1964

## Standardized Chemical Pumps

ETFE-lined, with magnetic coupling according to ISO 2858 and ISO 15783 standards

### Housing and impeller materials

ETFE-CF

### Elastomers

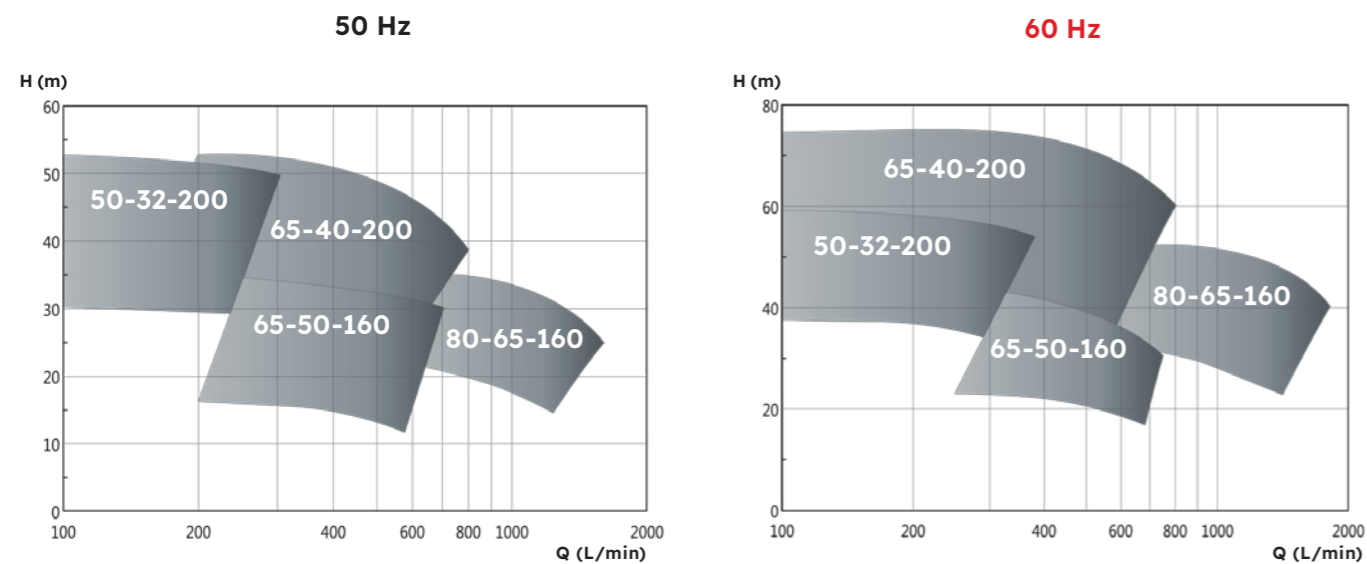
EPDM, FKM (z. B. Viton®), PTFE+FKM

### Bearing materials

Carbon, PTFE-CF, SSiC

The NEOChem Base is a modern, chemically resistant plastic magnetic pump for demanding industrial applications. It combines a seal-less magnetic coupling with a high-strength armored outer construction and ETFE carbon-fiber lining, providing excellent corrosion resistance and robustness even under harsh operating conditions. Additional features such as a Back-Pull-Out design and flow-through bearing cooling system ensure reduced maintenance cycles and high availability.

## Performance Overview



## Advantages

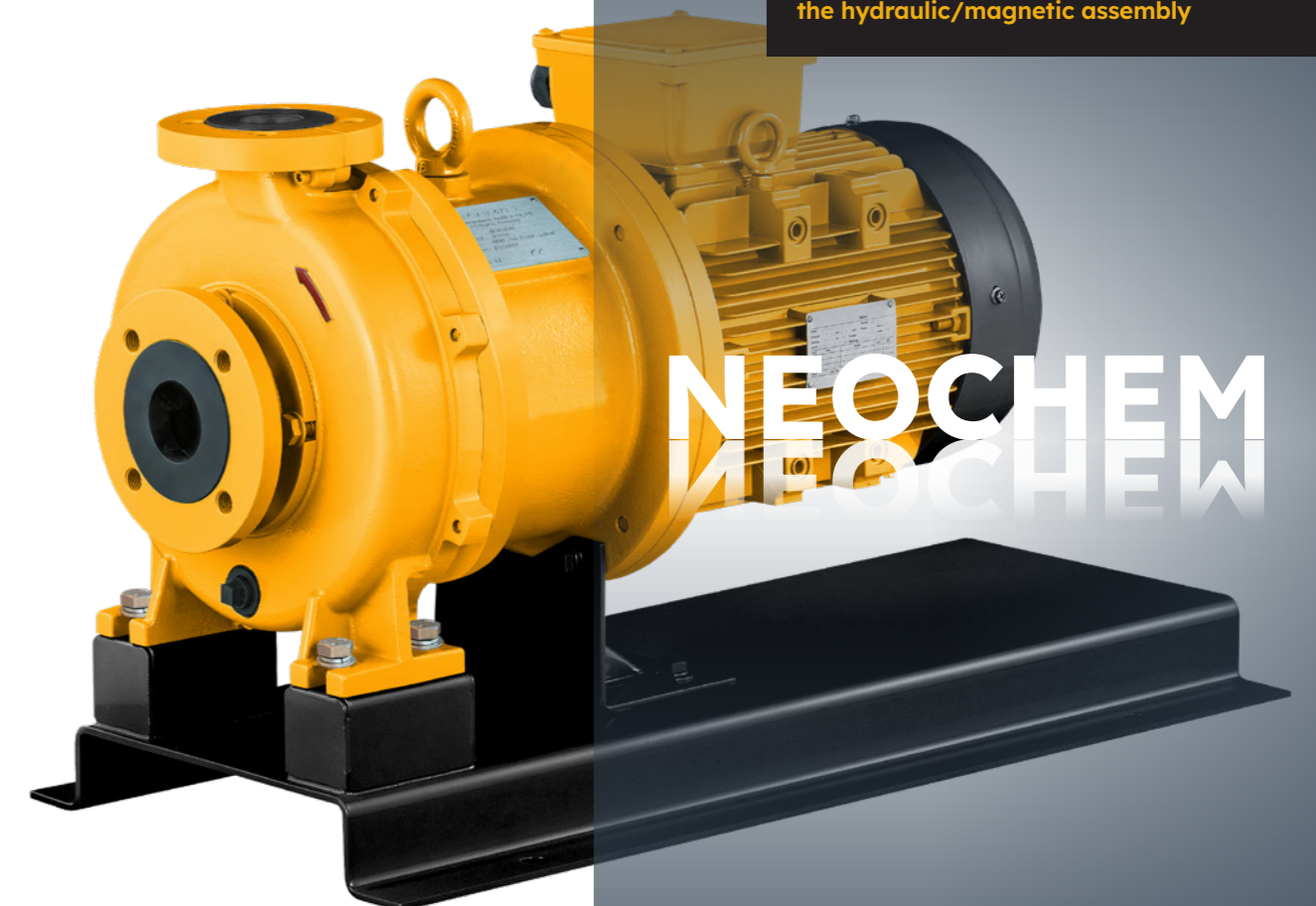
- + Hermetically sealed and completely leak-free – sealless magnetic coupling (no mechanical seal), ensuring no leakage risk and maximum operational safety for expensive or environmentally hazardous media.
- + Ideal for toxic, aggressive, and high-purity media: The ETFE lining combined with a robust armored outer shell provides outstanding corrosion protection and prevents contamination.
- + Back-pull-out design – fast service and replacement of the hydraulic/magnetic assembly without removing the piping, enabling minimal downtime.

### High-Strength Outer Construction

Excellent corrosion resistance and robustness

### Back-Pull-Out

Fast service and replacement of the hydraulic/magnetic assembly



## Description

### Characteristics

Chemical-resistant, single-stage, ETFE-lined plastic centrifugal pump in close-coupled design per ISO 2858 and ISO 15783, with magnetic coupling, normal-priming

### Features

- Hermetically sealed and absolutely leak-free (no shaft seal)
- Contact-free magnetic coupling with high-performance magnets
- All wetted parts made of premium, corrosion-resistant materials such as ETFE-CF
- Standard flange connections according to ISO, JIS, or ANSI

### Fields of application

Pumping of acids, alkalis, and other corrosive, hazardous, or toxic liquids where leakage of even small quantities is unacceptable and hermetic sealing is required.

Pumping of high-purity or sensitive liquids where contamination must be prevented.

#### Typical uses:

Chemical industry—process and transfer (e.g. tanker unloading, bulk transfer)

## Characteristics

### Available materials

- Housing: ETFE-CF-lined
- Elastomers: EPDM, FKM (e.g. Viton®), PTFE+FKM
- Bearing materials: Carbon, PTFE-CF, SiC

### Standard motors (available from stock)

- Three-phase motors:  $\Delta$ 230/Y400 V, 3-ph @ 50 Hz; Y480 V, 3-ph @ 60 Hz; IP55, Class F, with PTC as standard
- All three-phase motors from 0.75 kW comply with energy efficiency class IE3
- Single-phase motors: up to 1.1 kW: 230 V, 1-ph, 50/60 Hz, IP55, Class F
- ATEX-certified motors (temperature rating T3)

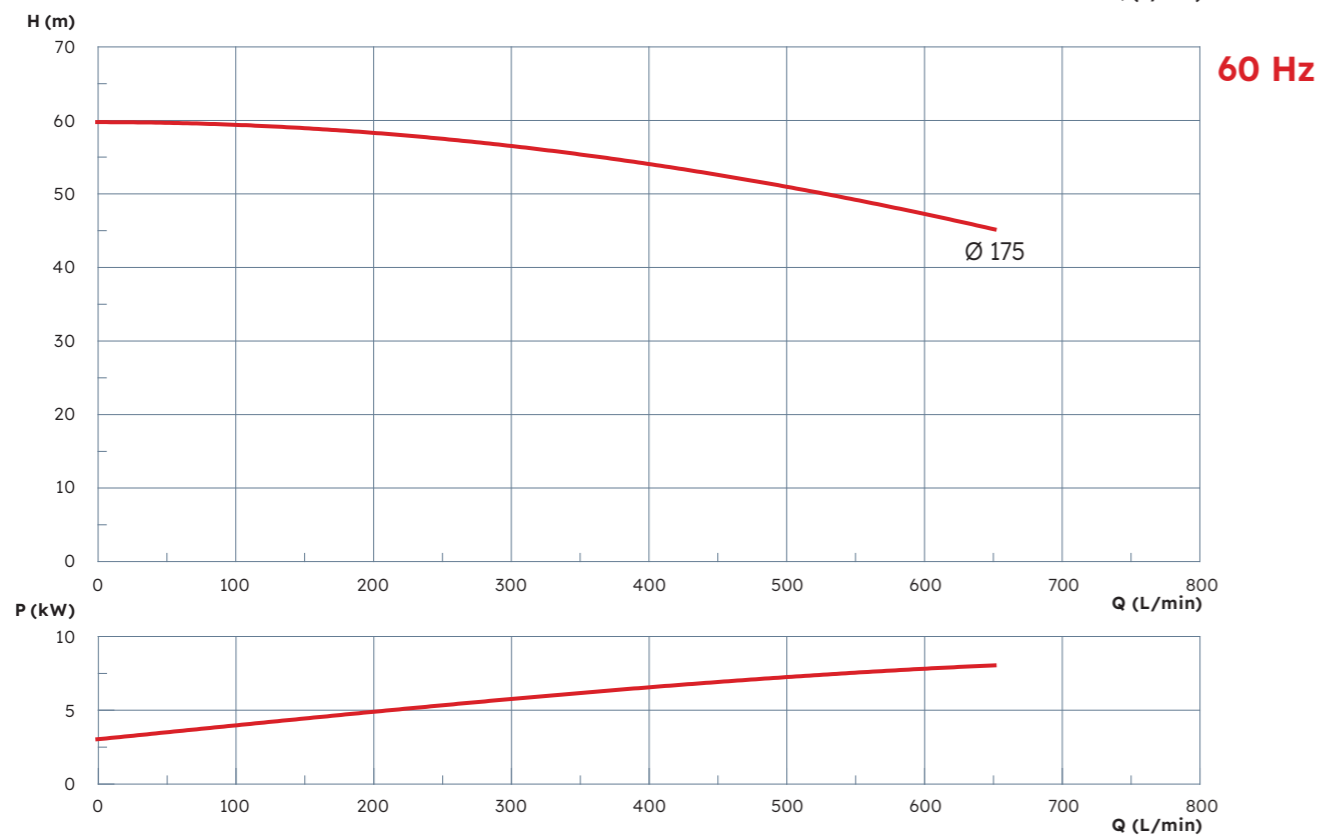
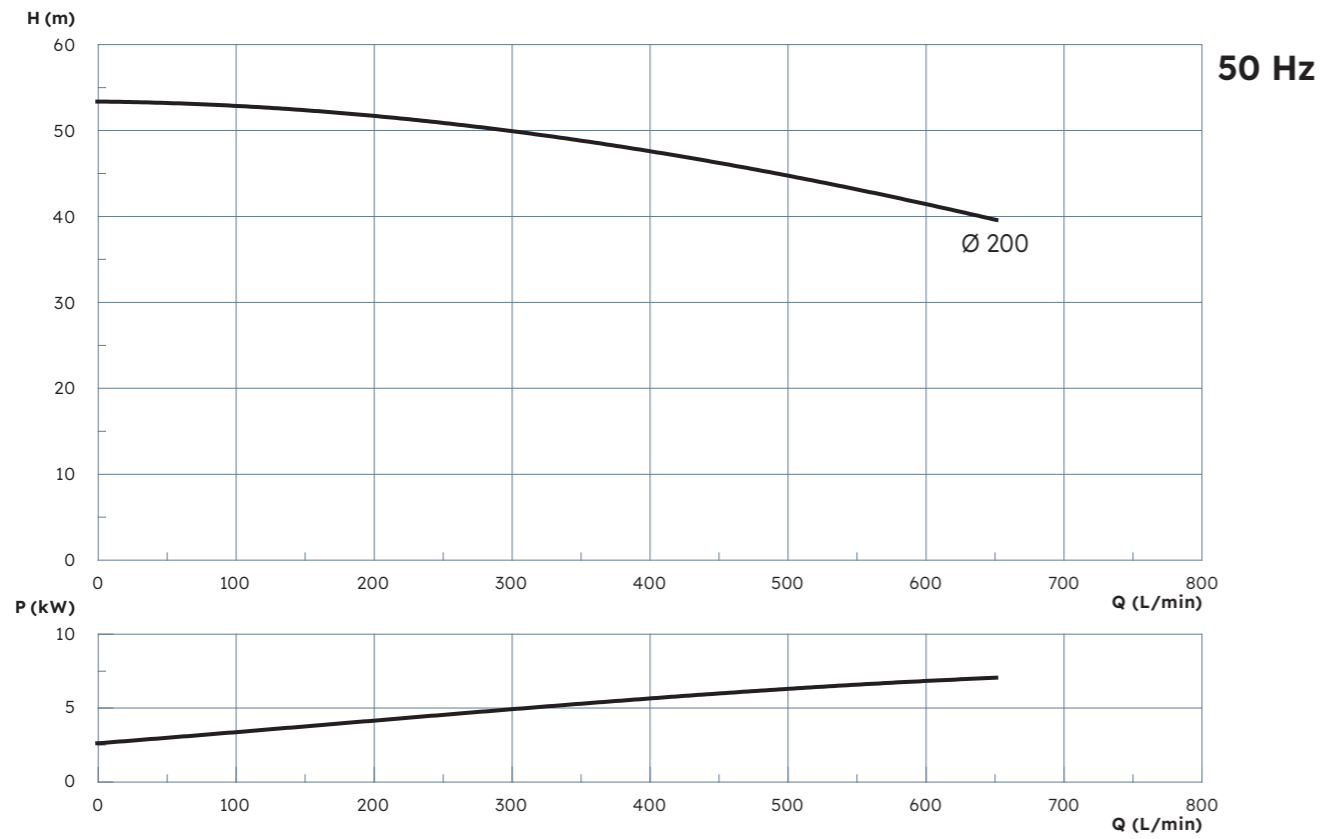
### Special motors (on request)

- Special voltages and frequencies
- Three-phase motors with integrated frequency converter
- ATEX-certified motors with flameproof enclosure and temperature rating T4
- Four-pole motors with 1450 rpm @ 50 Hz / 1650 rpm @ 60 Hz
- UL- and CSA-certified motors
- Special types of protection, e.g., IP65
- Special insulation classes, e.g., tropical insulation
- Multi-voltage, e.g.,  $\Delta$ 220–290/Y380–500 V @ 50 Hz;  $\Delta$ 220–332/Y380–575 V @ 60 Hz
- Direct-current motors (DC or BLDC)

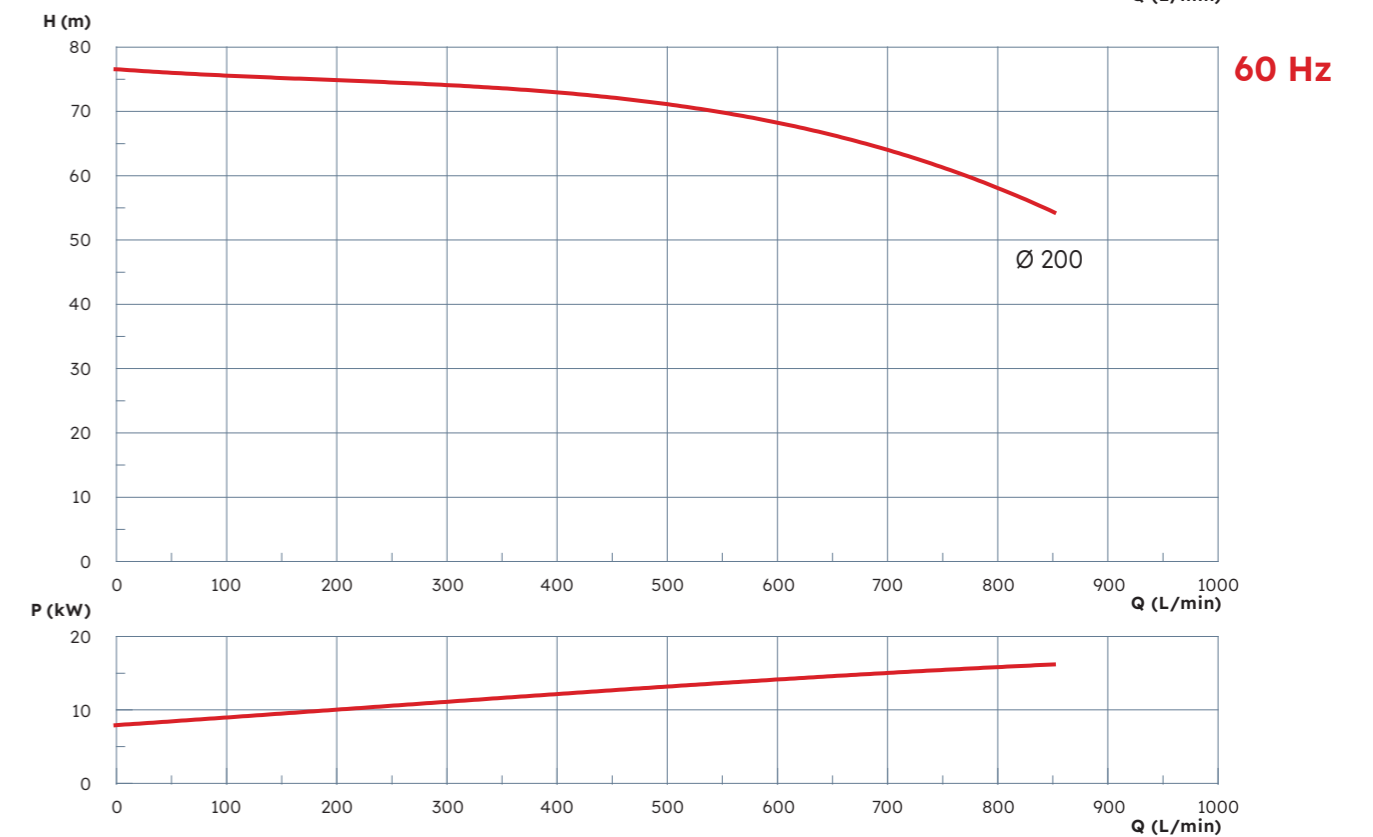
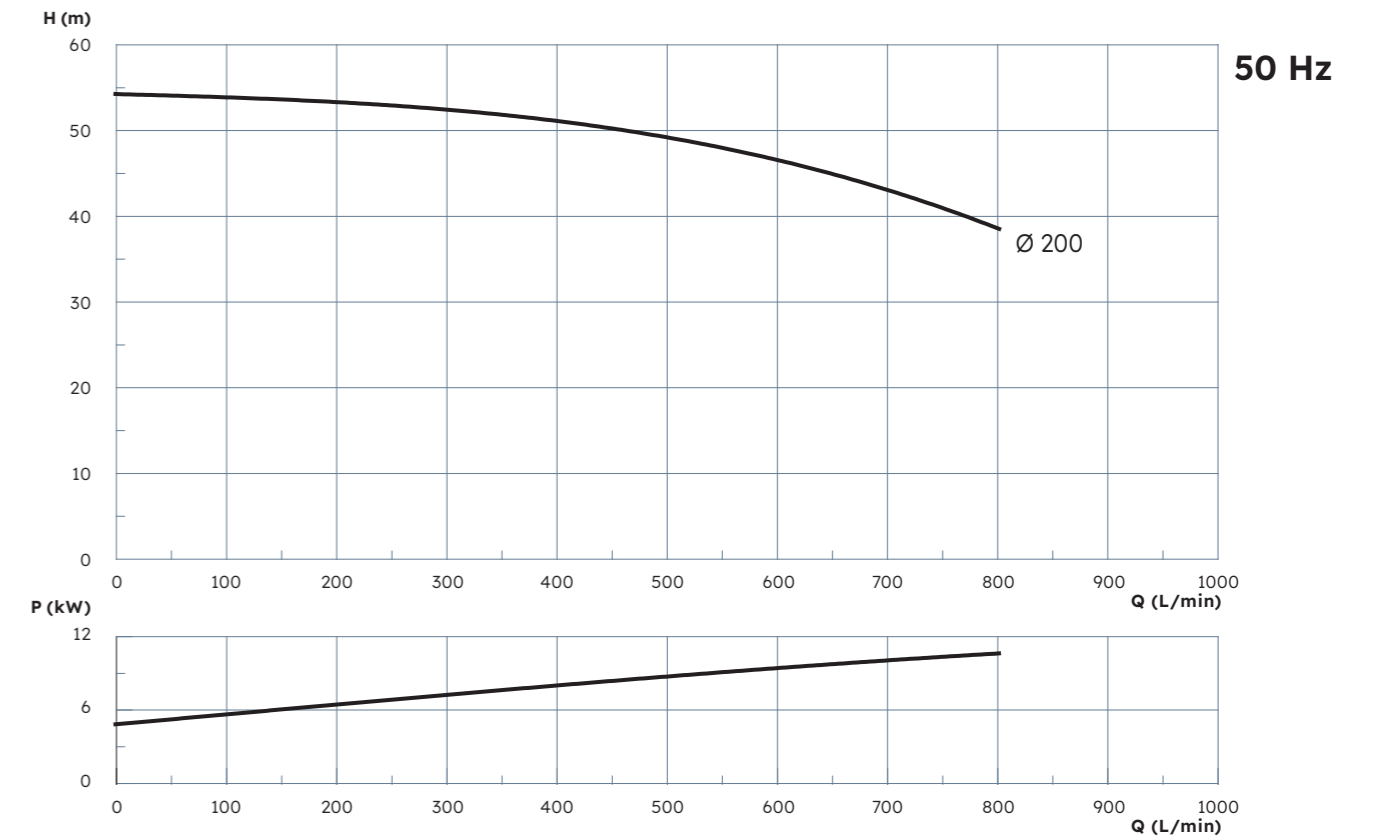
### Operating conditions

- Max. flow rate: 108 m<sup>3</sup>/h
- Max. head: 76 m
- Medium temperature: 0 to 95 °C
- Drive power: 5.5 to 18.5 kW

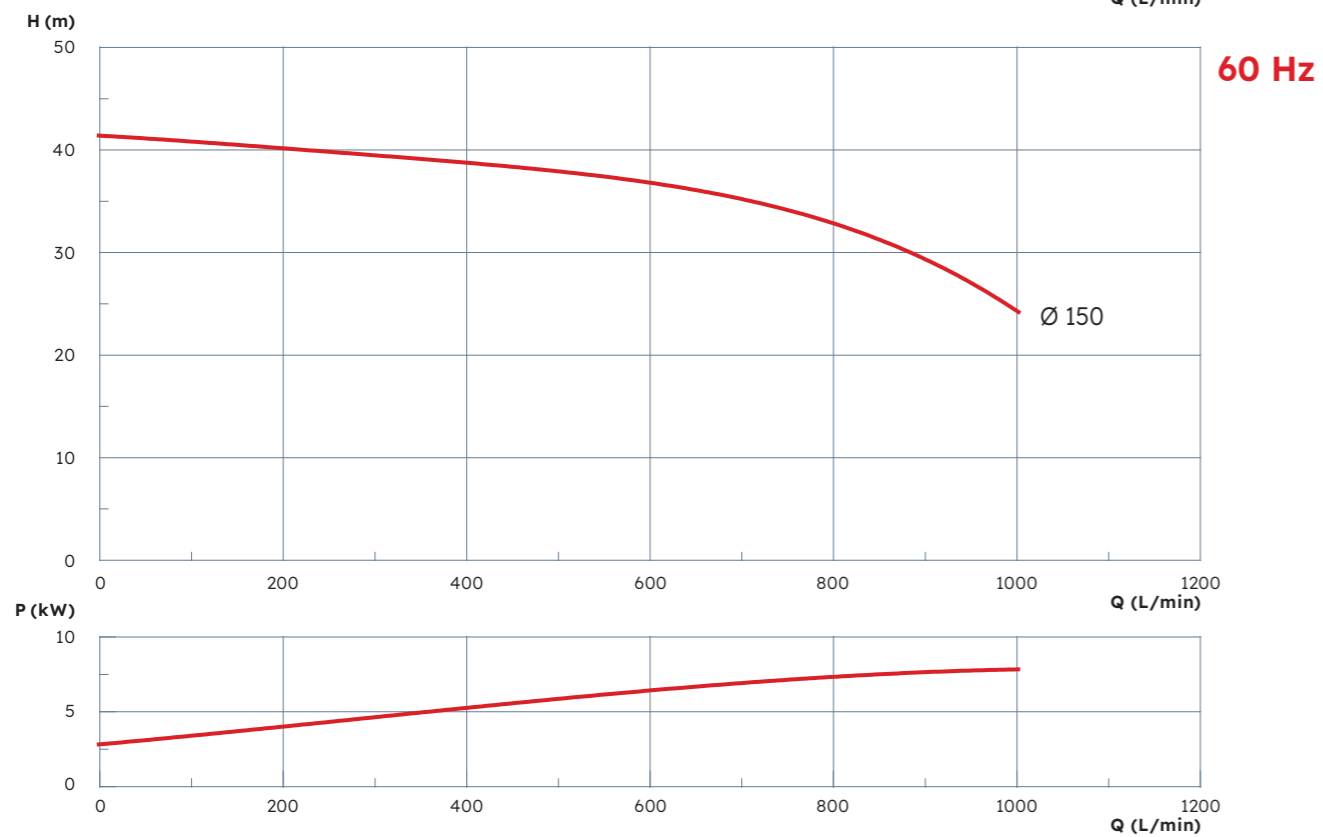
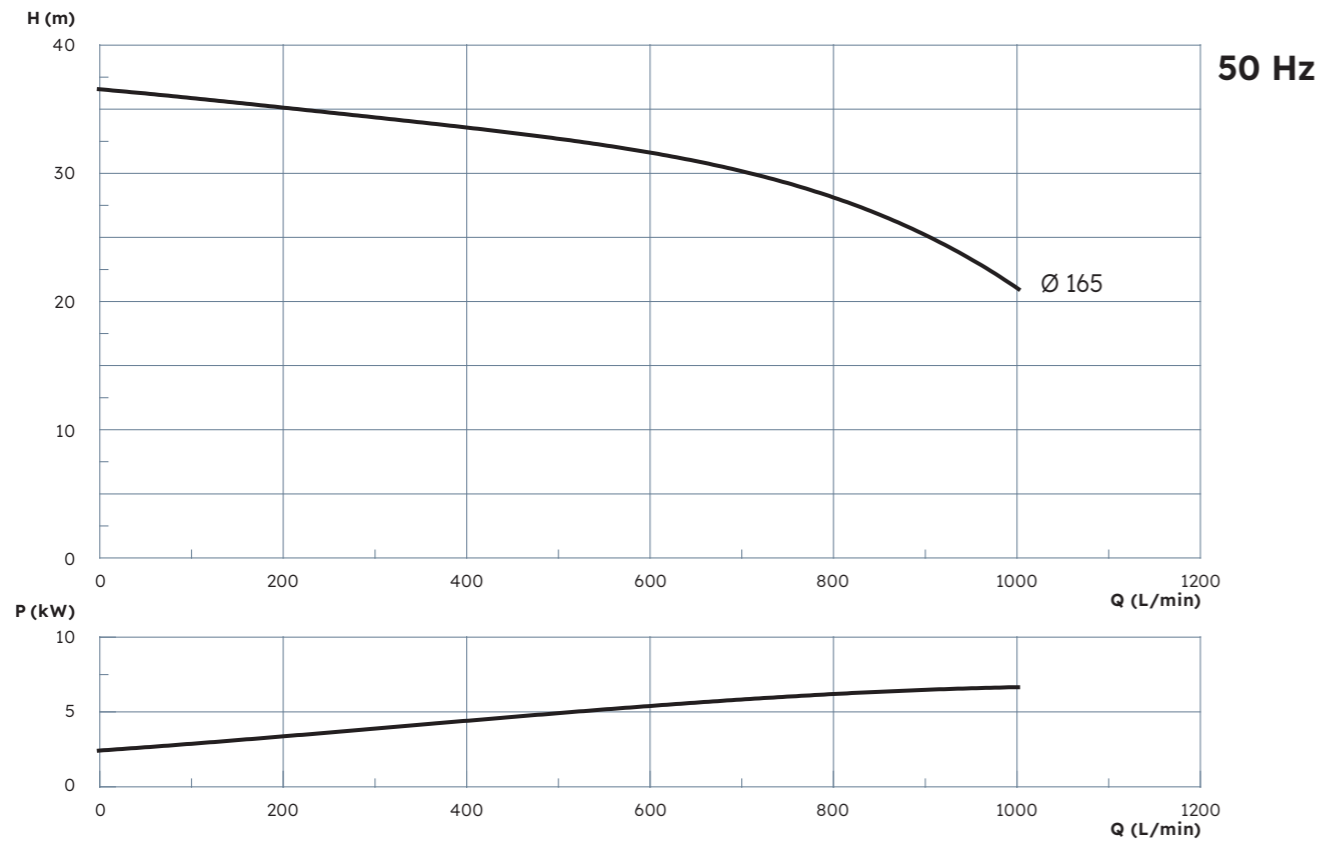
## Performance Curve NEOCHEM BASE 50-32-200



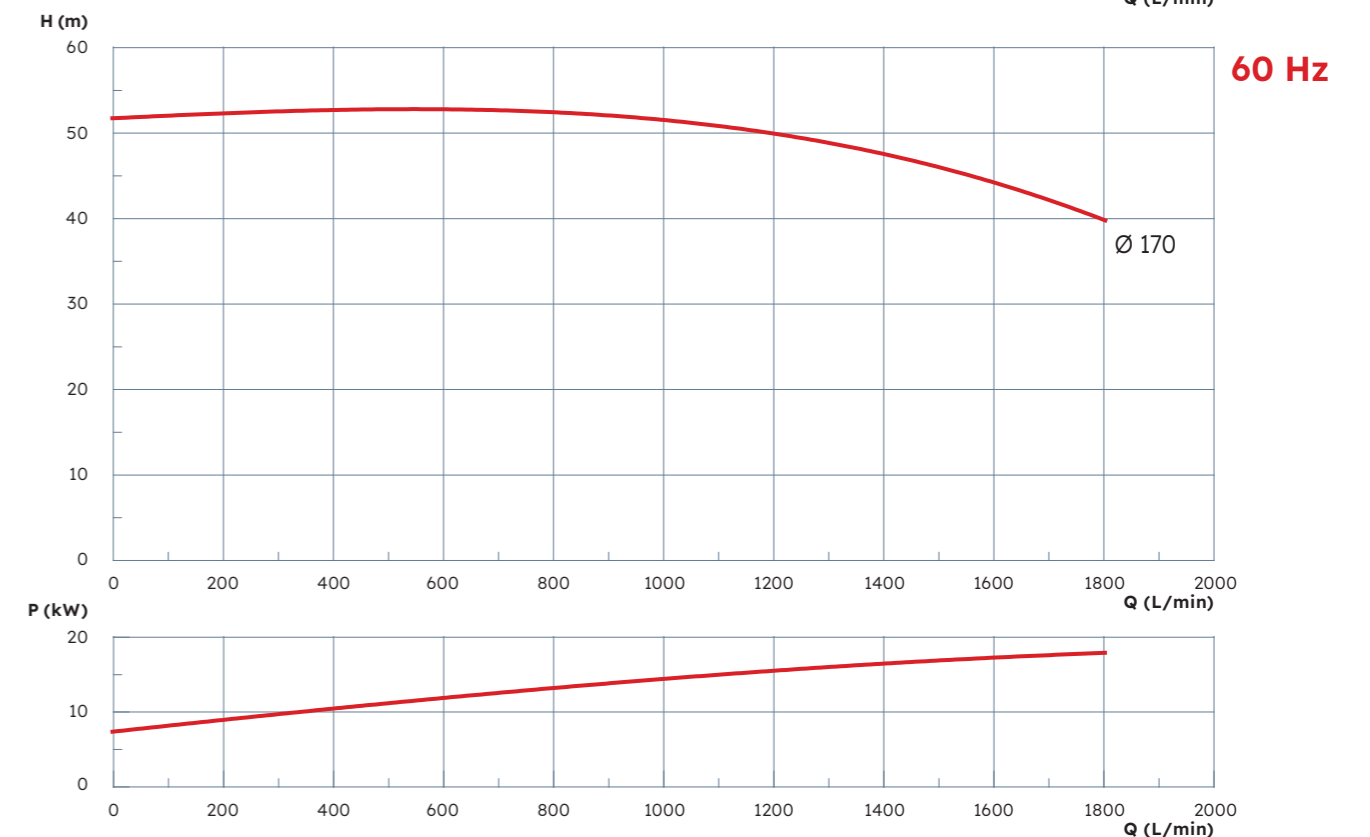
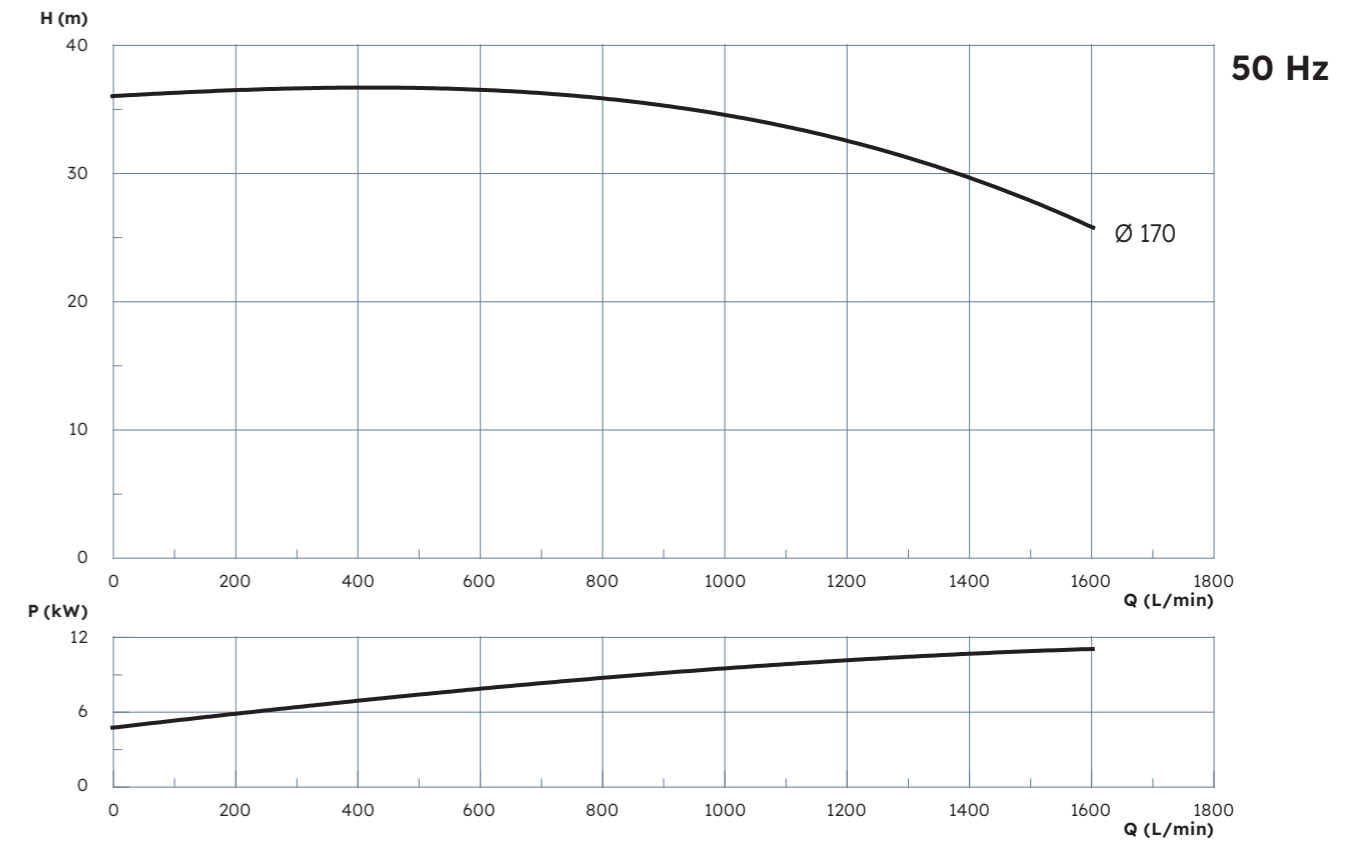
## Performance Curve NEOCHEM BASE 65-40-200



## Performance Curve NEOCHEM BASE 65-50-160

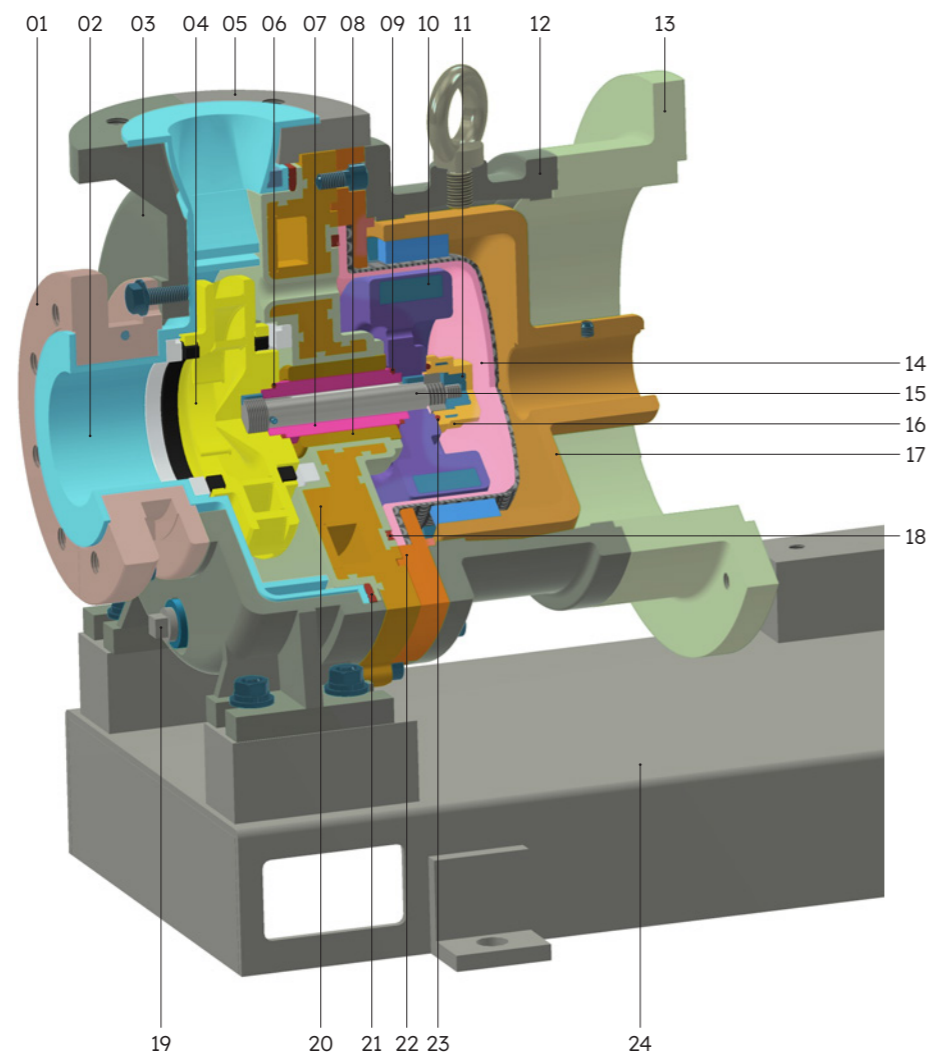


## Performance Curve NEOCHEM BASE 80-65-160



## Spare Parts

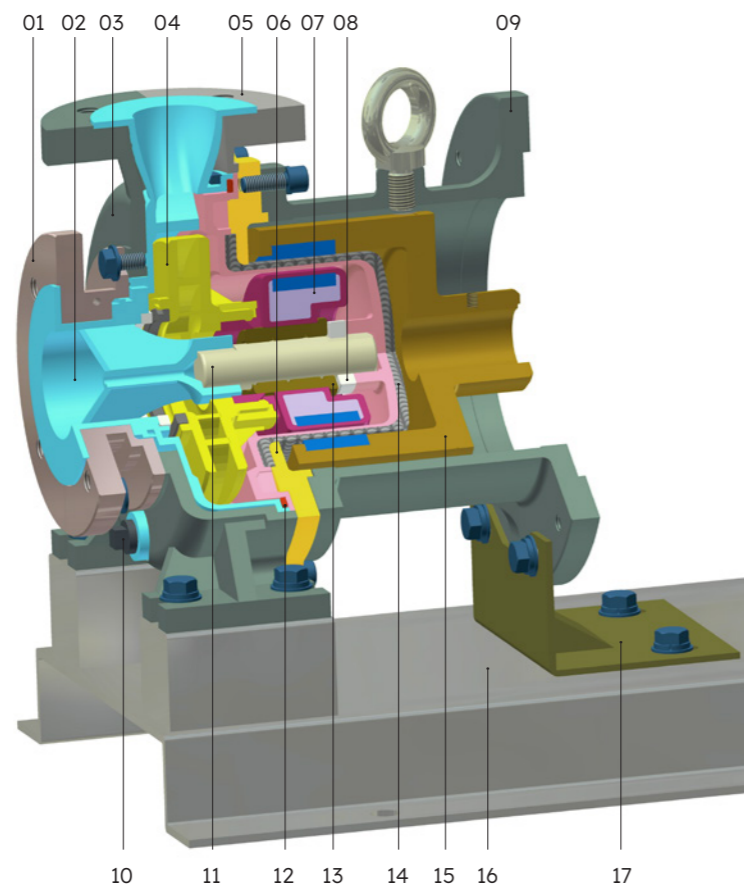
65-40-200 / 80-65-160



Position	Description	Available materials
01	Inlet armour	EN-GJS-450-10 (5.3107)
02	Pump casing assembly	Casing: ETFE+CF, Ring: SSiC
03	Casing armour	EN-GJS-450-10 (5.3107)
04	Impeller assembly	Front ring: SSiC Impeller: ETFE+CF
05	Outlet armour	EN-GJS-450-10 (5.3107)
06	O-Ring	EPDM/FKM
07	Shaft sleeve	SSiC
08	Bearing	SSiC
09	O-Ring	EPDM/FKM
10	Magnet capsule	ETFE, Nd-Fe-B
11	Nut & washer	Stainless Steel (1.4404) (AISI 316L)
12	Bracket	EN-GJS-450-10 (5.3107)
13	Bracket adapter	EN-GJS-450-10 (5.3107)
14	Containment shell	ETFE+CF, Carbon FRP
15	Shaft	Stainless Steel (1.4404) (AISI 316L)
16	Shaft nut	ETFE
17	Drive magnet	Nd-Fe-B
18	Flat gasket	EPDM/FKM/PTFE+FKM
19	Drain plug	ETFE+CF
20	Bearing frame assembly	Bearing frame: EN-GJS-450-10 (5.3107) Thrust ring: SSiC
21	Gasket	EPDM/FKM/PTFE+FKM
22	Backup plate	EN-GJS-450-10 (5.3107)
23	O-Ring	EPDM/FKM
24	Base plate	Stainless Steel (1.4301) (AISI 304)

## Spare Parts

50-32-200 / 65-50-160



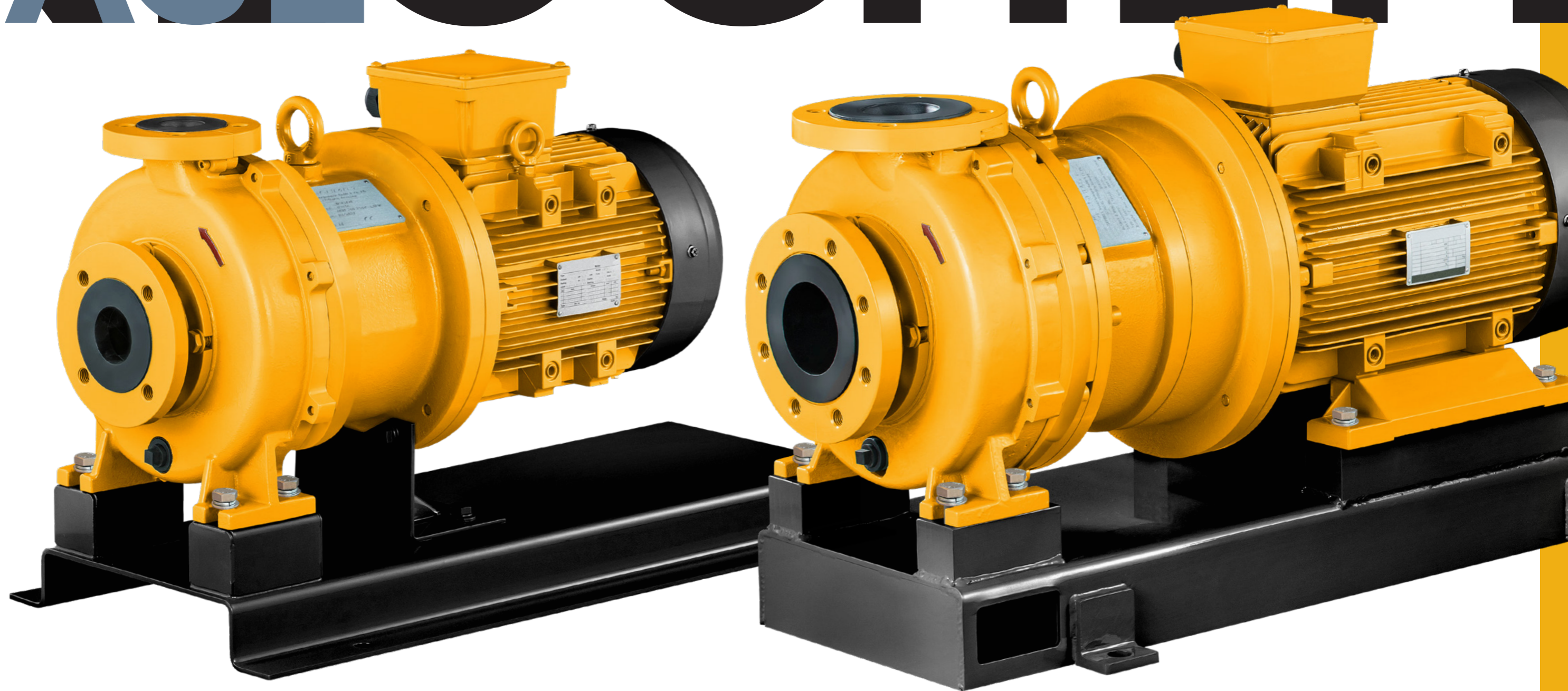
Position	Description	Available materials
01	Inlet armour	EN-GJS-450-10 (5.3107)
02	Pump casing assembly	Casing: ETFE+CF, Ring: 995 Al <sub>2</sub> O <sub>3</sub> /SSiC
03	Outlet armour front	EN-GJS-450-10 (5.3107)
04	Impeller assembly	Front ring: Carbon/SSiC Impeller: ETFE+CF
05	Outlet armour rear	EN-GJS-450-10 (5.3107)
06	Backup plate	EN-GJS-450-10 (5.3107)
07	Magnet capsule	ETFE,Nd-Fe-B
08	Rear thrust ring	995 Al <sub>2</sub> O <sub>3</sub> /SSiC
09	Bracket adapter	EN-GJS-450-10 (5.3107)
10	Drain plug	ETFE+CF
11	Shaft	995 Al <sub>2</sub> O <sub>3</sub> /SSiC
12	Gasket or O-Ring	EPDM/FKM/PTFE+FKM
13	Bearing	Carbon/SSiC
14	Containment shell	ETFE+CF, Carbon FRP
15	Drive magnet	Nd-Fe-B
16	Base plate	Stainless Steel (1.4301) (AISI 304)
17	Bracket foot	Stainless Steel (1.4301) (AISI 304)

## Accessories

A comprehensive range of accessories is available for all Schmitt pumps, facilitating seamless integration into your system:

- + Flange adapters
- + Hose connectors
- + Weld-on fittings for stainless steel piping
- + Reducers and expanders
- + NPT-threaded adaptors
- + Inlet strainers for vertical pumps
- + Extension pipes for vertical pumps

# BASEOCCHEM



SCHMITT

Reinventing flow. Since 1964

# NHM

Normal-Priming Centrifugal Pumps  
Made of PVDF or PP with Magnetic Coupling



SCHMITT

Reinventing flow. Since 1964

# MPN

Normal-Priming Centrifugal Pumps  
Made of PVDF or PP with Magnetic Coupling



SCHMITT

Reinventing flow. Since 1964

# U

Normal-Priming Centrifugal Pumps  
Made of PVDF or PP with Single Mechanical Seal



SCHMITT

# T

Sealless Vertical Centrifugal Pumps  
Made of PVDF or PP Dry-Run Safe



Reinventing flow. Since 1964

SCHMITT

# UP | UP-DO

Normal-Priming Centrifugal Pumps  
Made of Stainless Steel with Single or Double Mechanical Seal

Reinventing flow. Since 1964



SCHMITT

Reinventing flow. Since 1964

# SMP

Self-Priming Centrifugal Pumps  
Made of PP with Magnetic Coupling



SCHMITT

Reinventing flow. Since 1964

# P

Normal-Priming Turbine Pumps  
Made of PVDF or PP with Magnetic Coupling



SCHMITT

# NEOCHEM BASE

Standardized Chemical Pumps  
ETFE-lined with Magnetic Coupling



Reinventing flow. Since 1964

SCHMITT

# NEOCHEM CORE

Heavy-Duty Standardized Chemical Pumps  
FFA-lined with Magnetic Coupling



Reinventing flow. Since 1964

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