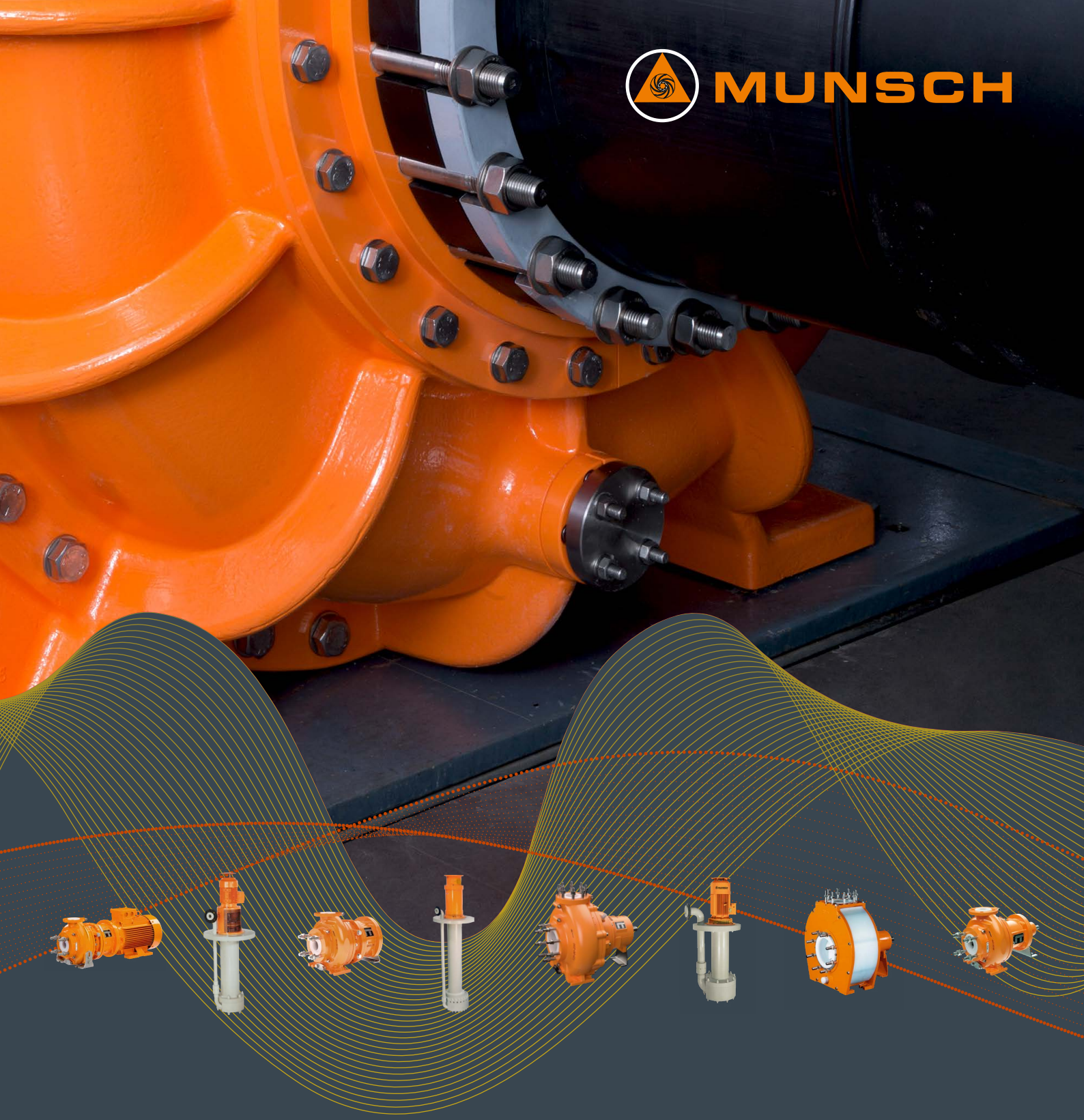
MUNSCH



PRODUCT RANGE

PUMPS FOR CORROSIVE AND ABRASIVE MEDIA.

NON-METALLIC PUMPS FROM THE SPECIALIST

Introduction

As a family-owned company, MUNSCH has been a reliable partner to the chemical and process industries for more than 60 years, working shoulder to shoulder with its customers. From the very beginning, our single-minded focus has been on non-metallic pumps for corrosive and abrasive service environments to satisfy the highest quality, reliability and efficiency standards.

Our dedicated staff and their drive for innovation are steering us into the world of tomorrow. At MUNSCH, digitalization has long been part of our corporate philosophy. This approach now puts us in a position to respond flexibly to our customer‘s special product and service needs. Our high level of vertical integration and latest manufacturing technology mean, we can manufacture customized pumps just as cost-effectively as standardized pumps.

TOGETHER WITH OUR CUSTOMERS ...

and building on our many years of experience, we select the best solutions from our product portfolio that guarantee reliable operation at optimum life cycle cost.

Throughout the lifecycle of our products we provide expert advice and technical support from our field technicians.

MUNSCH PUMPS ...

have earned an excellent reputation among industry users and our customers‘ project engineers over the years. Standing for reliability, safe operation, ease of handling, high efficiencies and thick-walled plastic casings; the NPC+ series unites these attributes and is setting new standards of performance and application range.

NON-METALLIC PUMPS

WITH MECHANICAL SEAL

WITH MAGNETIC COUPLING

VERTICAL PUMPS

CLOSE-COUPLED PUMPS

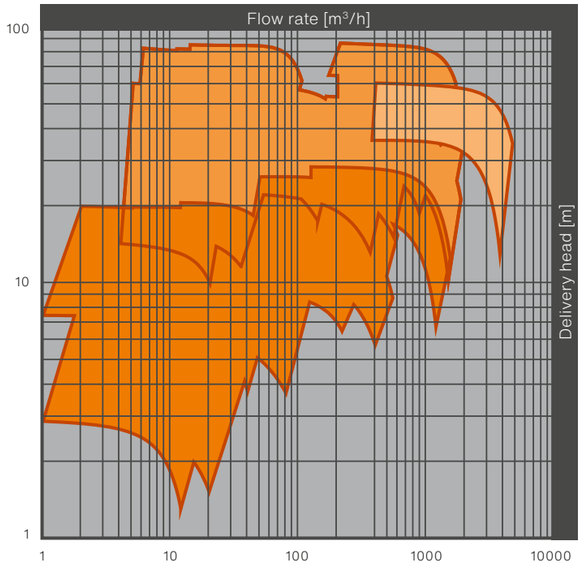
ACCESSORIES

SUSTAINABILITY

CHEMICAL STANDARD PUMP NPC+

with mechanical seal

A well-thought-out pump concept that is universally applicable, extremely durable, and especially energy-efficient. More pressure, higher temperatures, optimal efficiency, and outstanding reliability – these requirements were at the center of development. The result is a high-quality plastic pump that impresses with its performance and stability. State-of-the-art hydraulics and a solid construction ensure exceptionally smooth operation. Housing dimensions, connection sizes, and technical requirements comply with ISO 2858 / ISO 5199 (with additional sizes added). **Also available in close-coupled design NPC-B+.**



Details about the series →

PERFORMANCE DATA

Flow rate [Q]	up to 5,000 m³/h
Delivery head	up to 100 m
Operating temperature	-30 to 150 °C
Operating pressure [p]	up to 16 bar
Discharge nozzle	DN 25 to DN 400
Motor drive power	up to 1 MW

VERSION

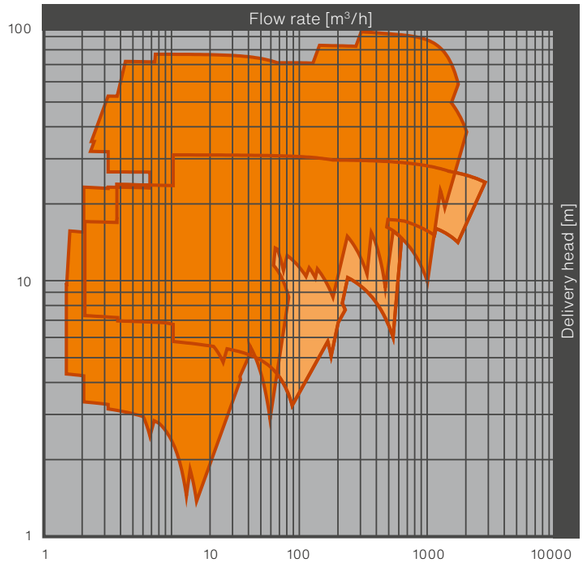
Main material	PE-UHMW · PP · PVDF · PTFE/PFA
Impeller	closed
Shaft seal	Metal-free mechanical seal with SSiC sliding and counter ring Available as single or double seal Double seal optimized for operation with thermosiphon system Various flushing options
Explosion protection (ATEX)	Complies with EU Directive 2014/34/EU

CHEMICAL STANDARD PUMP NP

with mechanical seal

Developed for the harsh conditions in steel pickling, the universal all-rounder has proven itself for decades in a wide variety of corrosive and abrasive applications in all industrial sectors. With a perfectly matched, metal-free mechanical seal and optimized hydraulics, the NP stands for reliability, simplicity, and efficiency.

This pump paved the way for our worldwide success and established our reputation as a reliable partner for critical applications. Housing dimensions, connection sizes, and technical requirements comply with ISO2858 / ISO5199 (with additional sizes available). **Also available in close-coupled design NP-B.**



Details about the series →

PERFORMANCE DATA

Flow rate [Q]	up to 1,200 m³/h
Delivery head	up to 100 m
Operating temperature	-20 to 110 °C
Operating pressure [p]	up to 10 bar
Discharge nozzle	DN 25 to DN 250
Motor drive power	up to 200 kW

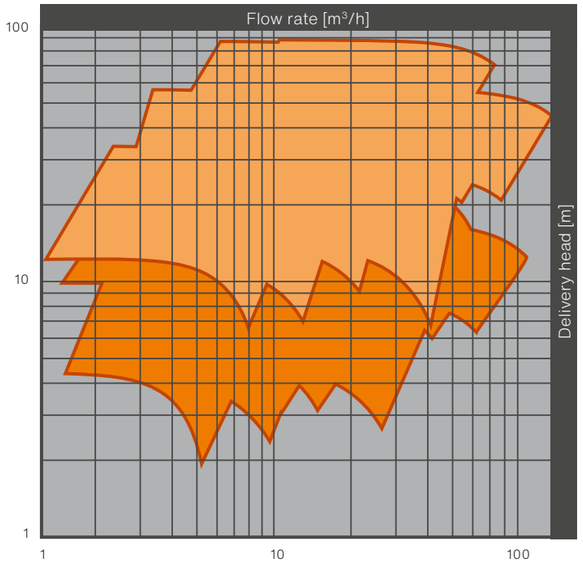
VERSION

Main material	PP · PE-UHMW · PVDF
Impeller	closed semi-open Vortex impeller (depending on size)
Shaft seal	Metal-free mechanical seal with SSiC sliding and counter ring Available as single or double seal
Explosion protection (ATEX)	Complies with EU Directive 2014/34/EU

CHEMICAL STANDARD PUMP CM+

with magnetic coupling

Safety without compromise – the CM+ is the latest generation of our magnetic coupling pumps for the most demanding chemical applications. It combines innovative safety solutions, maximum reliability, and outstanding energy efficiency. Thanks to simple maintenance systems and a wide range of applications, the CM+ offers maximum operational safety and efficiency – setting new standards for the future of chemical process engineering. Housing dimensions, connection sizes, and technical requirements comply with ISO2858 / ISO5199 (with additional sizes available). **Also available in close-coupled design CM-B+.**



Details about the series →

PERFORMANCE DATA

Flow rate [Q]	up to 200 m³/h
Delivery head	up to 90 m
Operating temperature	up to 180 °C
Operating pressure [p]	up to 16 bar
Discharge nozzle	DN 25 to DN 65
Motor drive power	up to 30 kW

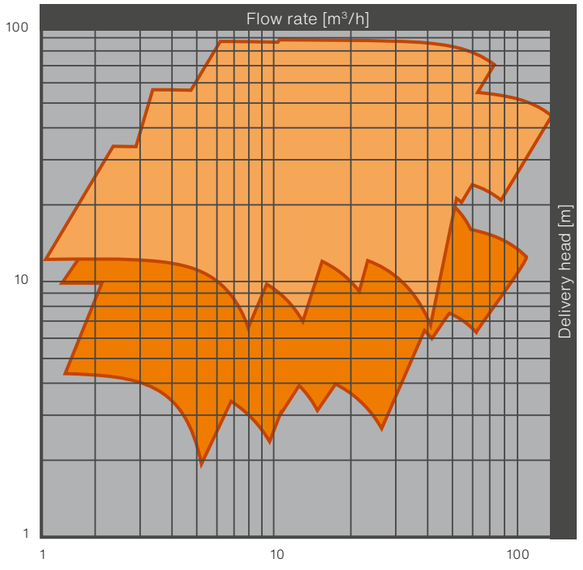
VERSION

Main material	PFA · PP
Impeller	closed · semi-open · vortex impeller (depending on size)
Shaft seal	Seal-less design through use of a magnetic coupling
	External plain bearing flushing Temperature measurement of conveyed medium in containment shell Secondary sealing · Containment shell touch protection Version with solid barrier Additional safety options on request
Explosion protection (ATEX)	Complies with EU Directive 2014/34/EU

CHEMICAL STANDARD PUMP ECM+

with magnetic coupling

Maximum energy efficiency is the focus of the ECM+. As an economical magnetic coupling pump for medium-duty applications, it combines particularly low power consumption with universal chemical resistance, thus creating an excellent cost-benefit ratio. Its robust, streamlined design ensures safe and stable operation, making the ECM+ the economical choice for efficient processes in the chemical and process industries. Housing dimensions, connection sizes, and technical requirements comply with ISO 2858 / ISO 5199 and have been expanded with additional sizes. **Also available in close-coupled design ECM-B+.**



Details about the series →

PERFORMANCE DATA

Flow rate [Q]	up to 200 m³/h
Delivery head	up to 90 m
Operating temperature	up to 130 °C
Operating pressure [p]	up to 16 bar
Discharge nozzle	DN 25 to DN 65
Motor drive power	up to 30 kW

VERSION

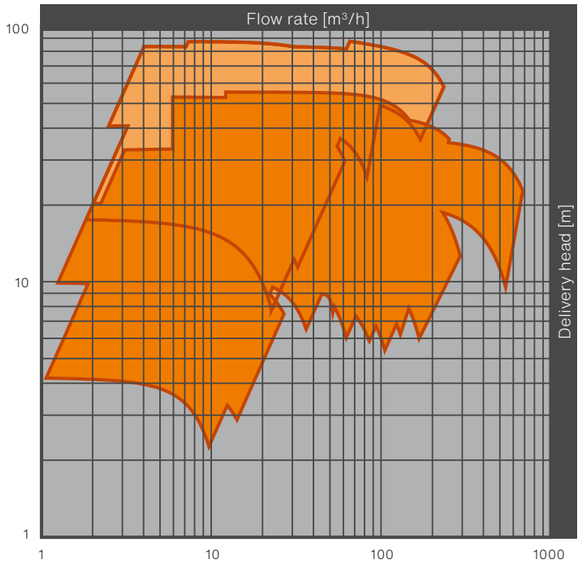
Main material	PFA · PP
Impeller	closed
Shaft seal	Seal-less design through use of a magnetic coupling
Explosion protection (ATEX)	Complies with EU Directive 2014/34/EU

CHEMICAL VERTICAL PUMP TNP-KL

with foot bearing

Hardly any other pump is as versatile as our TNP-KL. The vertical pumps have a performance range from 2 to 700 m³/h and are extremely robust due to the use of solid plastic components.

Individual adaptations are standard for us and open up a wide range of applications for this proven all-rounder. **Also available in close-coupled design TNP.**



Details about the series →

PERFORMANCE DATA

Flow rate [Q]	up to 700 m³/h
Delivery head	up to 90 m
Operating temperature	0 to 100 °C
Operating pressure [p]	up to 10 bar
Discharge nozzle	DN 32 to DN 150
Motor drive power	up to 75 kW
Immersion length	400 to 3,000 mm
Immersion length with suction pipe	up to 4,600 mm

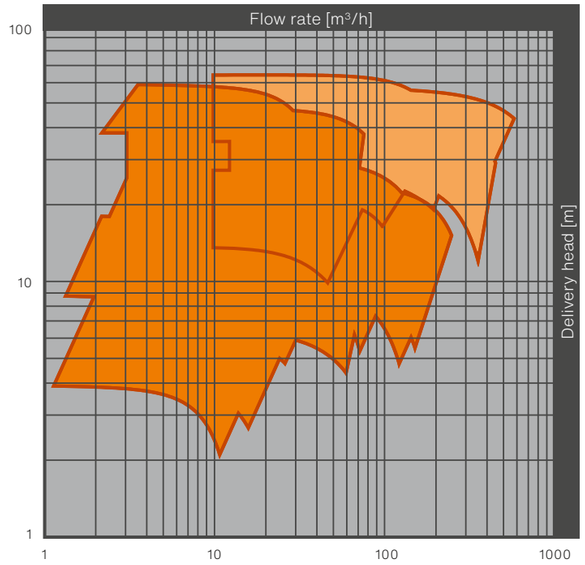
VERSION

Main material	PP · PE-UHMW · PVDF
Impeller	closed · semi-open · vortex impeller (depending on size)
Shaft seal	Labyrinth seal · Single or double mechanical seal
Sliding bearing (foot bearing)	SSiC
Options	Immersion length extendable by suction pipe · Suction strainer Mounting plate as per customer requirements Position and design of the suction flange as per customer requirements
Explosion protection (ATEX)	Complies with EU Directive 2014/34/EU

CHEMICAL VERTICAL PUMP TPC/TPC-M

without foot bearing – cantilever design

Thanks to the cantilever design without sliding bearings in robust solid plastic construction, TPC and TPC-M are the ideal solutions for heavily contaminated, corrosive media and for operating conditions where dry running cannot be ruled out. With exceptional performance and immersion length, the TPC sets standards. Where cost-effectiveness is paramount, the TPC-M scores with equivalent operational safety.



Details about the series →

PERFORMANCE DATA

Flow rate [Q]	TPC-M up to 250 m³/h · TPC up to 600 m³/h
Delivery head	up to 65 m
Operating temperature	0 to 100 °C
Operating pressure [p]	up to 10 bar
Discharge nozzle	DN 32 to DN 150
Motor drive power	up to 45 kW
Immersion length	TPC-M 600 / 800 / 1,000 mm · TPC 1,000 / 1,800 mm
Immersion length with suction pipe	up to 3,400 mm

VERSION

Main material	PP · PE-UHMW · PVDF
Impeller	closed · semi-open · vortex impeller (depending on size)
Shaft seal (depending on size)	Labyrinth seal · Double V-ring seal
Sliding bearing (foot bearing)	without foot bearing
Options	Immersion length extendable by suction pipe · Suction strainer Mounting plate as per customer requirements Position and design of the suction flange as per customer requirements
Explosion protection (ATEX)	Complies with EU Directive 2014/34/EU

CLOSE-COUPLED PUMPS

Our solutions for all applications

HORIZONTAL CLOSE-COUPLED PUMPS WITH MECHANICAL SEALS

NPC-B+

Housing dimensions and connection sizes according to ISO2858 / ISO5199

Flow rate [Q]	up to 200m³/h
Delivery head [H]	up to 90 m
Operating temperature	-20 to 150 °C
Operating pressure [p]	up to 16 bar
Discharge nozzle	DN 25 to DN 65
Motor drive power	up to 18.5 kW

NP-B

Housing dimensions and connection sizes according to ISO2858 / ISO5199

Flow rate [Q]	up to 200 m³/h
Delivery head [H]	up to 80 m
Operating temperature	-20 to 110 °C
Operating pressure [p]	up to 10 bar
Discharge nozzle	DN 25 to DN 100
Motor drive power	up to 11 kW

HORIZONTAL CLOSE-COUPLED PUMPS WITH MAGNETIC COUPLING

CM-B+

Housing dimensions and connection sizes according to ISO2858 / ISO5199

Flow rate [Q]	up to 200 m³/h
Delivery head [H]	up to 90 m
Operating temperature	up to 150 °C
Operating pressure [p]	up to 16 bar
Discharge nozzle	DN 25 to DN 65
Motor drive power	up to 18.5 kW

ECM-B+

Housing dimensions and connection sizes according to ISO2858 / ISO5199

Flow rate [Q]	up to 200 m³/h
Delivery head [H]	up to 90 m
Operating temperature	from -20 to 150 °C
Operating pressure [p]	up to 16 bar
Discharge nozzle	DN 25 to DN 65
Motor drive power	up to 18.5 kW

VERTICAL CLOSE-COUPLED PUMP

TNP

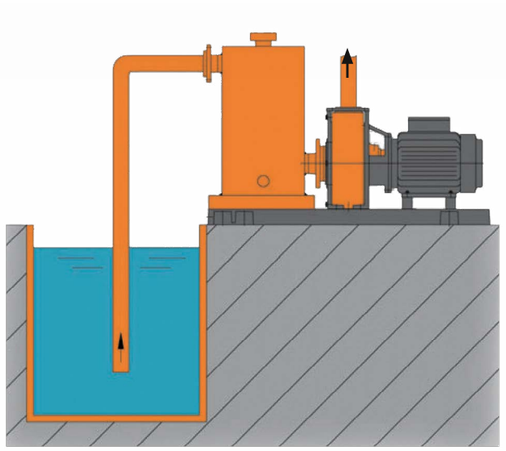
Flow rate [Q]	up to 110 m³/h
Delivery head [H]	up to 45 m
Operating temperature	0 to 100 °C
Operating pressure [p]	up to 10 bar
Discharge nozzle	DN 32 to DN 80
Motor drive power	up to 11 kW

PRIMING VESSEL

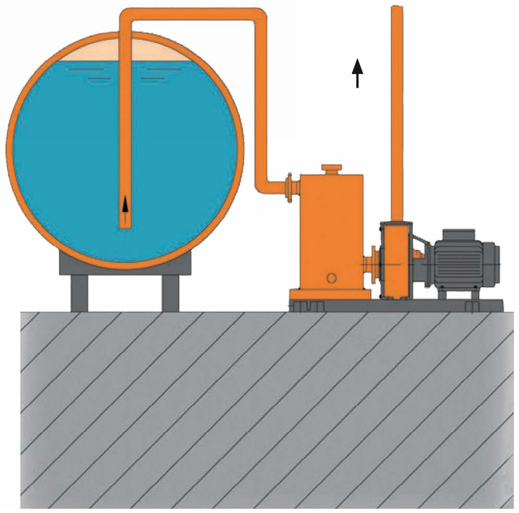
Due to their design, horizontal close-coupled pumps are not able to self-prime medium from a lower level. If the use of a vertical pump is not possible or desired, an auxiliary priming vessel can be installed between the suction line and the horizontal pump to assist with priming.

OPERATING PRINCIPLE:

The priming vessel and pump are filled with a chemically compatible liquid via the filling nozzle before initial startup. When started, the pump conveys the medium from the priming vessel into the discharge line. The vacuum created in the priming vessel initiates the suction process. After the pump is switched off, pressure equalization ensures the priming vessel is refilled. Sizing and possible monitoring are application-specific.



Suction operation pit emptying



Suction operation tank emptying

SUSTAINABILITY IN FOCUS

Energy efficient pumps, conserving resources, taking responsibility.

Sustainability at MUNSCH starts with pump design and extends throughout the entire lifecycle: from thick-walled, durable plastic housings to energy-efficient hydraulics and responsible manufacturing in Germany. In this way, we combine operational safety, efficiency, and resource conservation in one solution.

RESOURCE-SAVING PUMP DESIGN

The proven concept of our interchangeable, thick-walled volute casing is used in all our horizontal pumps. It increases the recyclability of the plastics used and allows targeted replacement of components in the event of service, instead of replacing entire units.

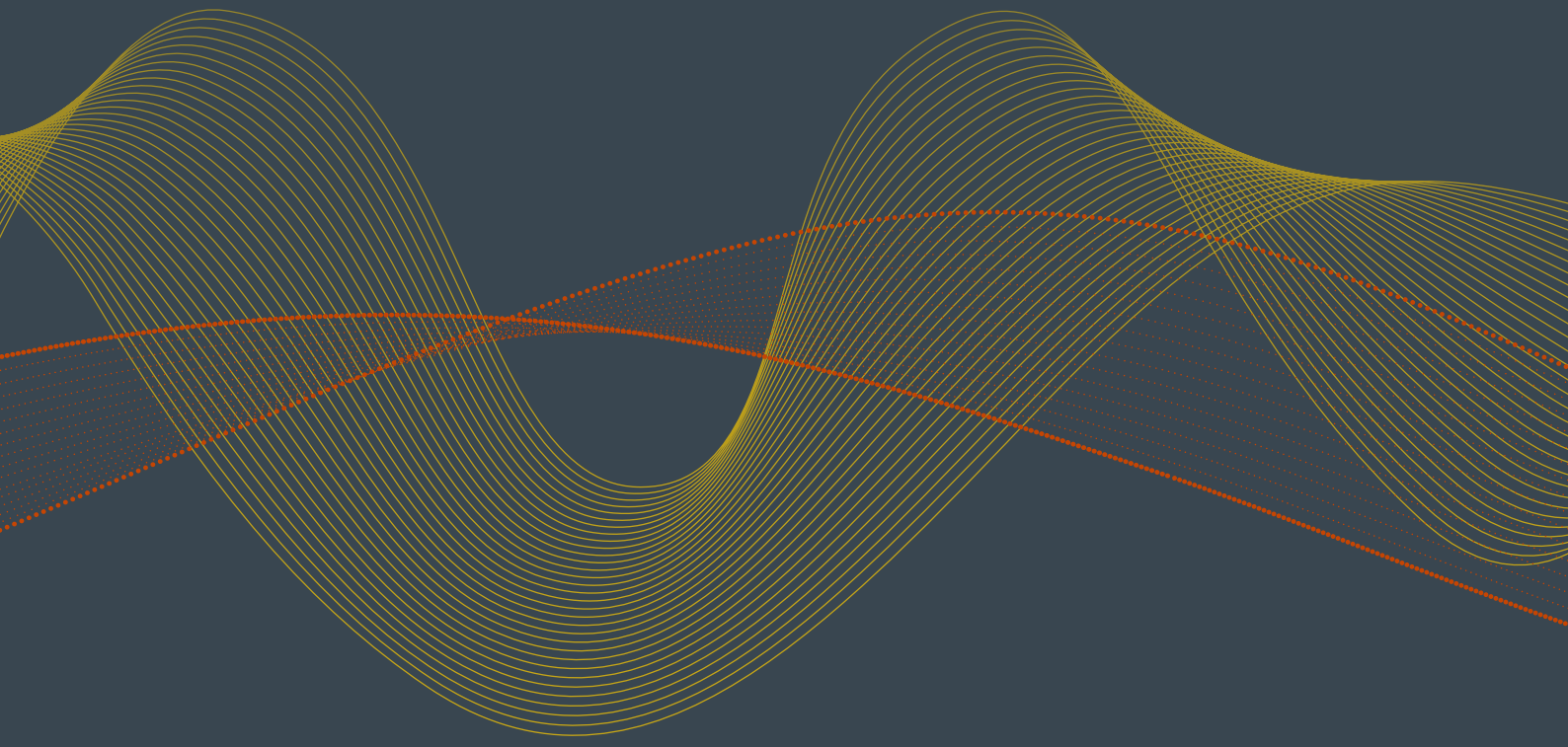
In combination with the robust design, this results in pump technology solutions with high operational reliability and long service life – a clear contribution to a resource-saving product lifecycle.

ENERGY EFFICIENCY IN OPERATION

Modern hydraulics, optimally designed sizes, and energy-efficient drive concepts ensure high efficiencies and low power consumption in all our series. This reduces energy requirements during operation, lowers lifecycle costs, and supports the achievement of CO_2 and sustainability targets in chemical and process plants.

RESPONSIBILITY IN MANUFACTURING

Our production facility in Germany is independently certified, demonstrating our commitment to safe, sustainable, and responsible operations across the supply chain. Short decision paths, high production depth, and a modern machine park enable us to continuously optimize quality, efficiency, and resource use – for the benefit of our customers and the environment.



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