



NORMAL-PRIMING CENTRIFUGAL PUMPS MADE OF PVDF OR PP WITH MAGNETIC COUPLING

SCHMITT NEOLUTION® IS THE NAEVA BENCH-MARK

FOR CHEMICAL RESISTANT CENTRIFUGAL PUMPS. FOR FOUR REASONS.

Incredible 76% efficiency

We have incorporated all our expertise into the development of the NEOLUTION NHM. And we're proud that it has set a new efficiency benchmark. Not only for us, but also for the entire industry.

A Maintenance-free and durable

One reason for the NEOLUTION NHM's impressive performance is its new bearing technology. Its extra-large, decoupled radial-axial slide bearings made of wear-resistant materials allow it to operate without requiring maintenance. And it's extremely durable as a result.



Maximum energy efficiency to protect the climate

Reducing CO₂ emissions and saving energy are the order of the day. And because the NEOLUTION NHM requires up to 50% less energy than pumps in the previous generation, depending on the operating point, it delivers a sustainable contribution. That's another plus for the NEOLUTION NHM.

Superior resistance

When we developed the NEOLUTION NHM, it was basic requirement that it should be just as resistant to chemicals as all our other pumps. After all, as anyone who knows us can confirm: we have the right pump for every liquid.

PRODUCT FEATURES

WELOVE ...

FINDING THE BEST SOLUTION FOR YOU

Why isn't it enough for us to produce first-class pumps? Because we're not satisfied until they're perfectly integrated into your operational processes and therefore working even more efficiently. And we want our partners in the specialist trade to benefit from this optimal performance too.

PUTTING OUR HEADS TOGETHER FOR YOU

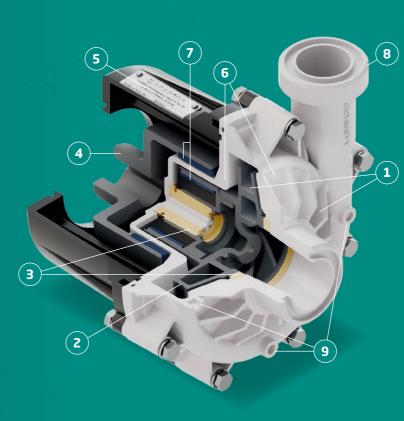
Why do we always put our heart and soul into our work? Because that's how you get the best from us every time: top quality, perfectly tailored concepts, and impressive service.

MAKING THINGS POSSIBLE

III.

Why isn't the word "impossible" in our vocabulary? Because we're happy to come to your rescue. And because your success is always our top priority.

HELPING TO MAKE SURE EVERYTHING RUNS SMOOTHLY FOR YOU



OPTIMISED PUMP HYDRAULICS for best-in-class efficiencies of up to 76%

2

1

MODULAR IMPELLER for easy replacement and cost-effective repairs

3

SPECIAL SLIDE BEARING SOLUTION MADE OF HIGH-PERFORMANCE MATERIALS

Durable and maintenance-free even in extreme operating conditions

ENCLOSURE MADE OF CHEMICALLY RESISTANT, CARBON-FIBRE-REINFOR-CED PLASTIC High strength and zero corrosion even in aggressive environmental conditions

5 CHEMICALLY RESISTANT TYPE PLATE

for reliable identification even after years in a harsh operating environment

6

COMPUTER-OPTIMISED HOUSING

for reliable operation at high pressures and temperatures

7

HIGH-PERFORMANCE NEODYMIUM MAGNETS

for safe power transmission even in media with very high densities _____

8

AVAILABLE WITH THREADED OR FLANGE CONNECTIONS

9

OPTIONAL DRAINAGE OR VENTILATION HOLES for individual installation positions

4 ENCLOS CHEMIC

4



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Housing and impeller materials: PVDF, PP Elastomers: Slide bearing materials:

EPDM, FKM (e.g. Viton[®]), FEP, FFKM (e.g. Kalrez[®]) SiC/SiC (silicon carbide) or carbon/SiC

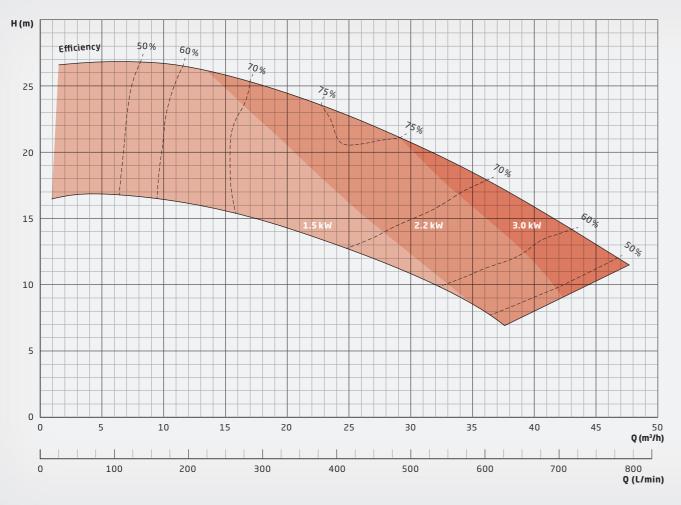
The all-new NEOLUTION pump boasts an efficiency level of up to 76%, setting new energy efficiency standards in this class. Made from a selection of chemical-resistant, high-performance materials matched to individual requirements, the NEOLUTION delivers maximum performance coupled with superior durability. The NEOLUTION is a groundbreaking new design, developed without comprise and with your needs in mind.

Advantages:

- + Best-in-class efficiency, making it extremely energy-efficient
- technology
- + Hermetically sealed due to contactless magnetic drive, and therefore absolutely leak-free

Solid particles up to 3 mm in size and 10% by volume can also be handled. Viscosity may be up to 150 mPas; maximum medium temperature is 95°C. All sizes are also available in ATEX-certified versions for use in ATEX Zones 1 and 2.

NHM 200 PERFORMANCE CHART







+ Wear-free, maintenance-free, and durable thanks to its unique bearing featuring slide axis



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DESCRIPTION

Characteristics	Chemical-resistant, single-stage plastic centrifugal pump with close-coupled design, with magnetic coupling, normal-priming	Materials	 Pump housing: PVDF, P Elastomers: FKM, EPDM
Features	 Hermetically sealed and absolutely leak-free (no mechanical seal) Contactless magnetic drive with high-performance neodymium magnets Highly efficient impeller and optimised volute casing for efficiencies of up 	Standard motors	Slide bearing materials: Three-phase motors: D
	to 76% Modular impeller and internal magnet for easy replacement Maintenance-free in normal operation due to extra-large slide bearings Reliable operation even at high pressures and temperatures thanks to unique 	(available from stock)	60 Hz, IP 55, ins. cl. F, a · All three-phase motors IE3 · Single-phase motors (u ins. cl. F)
	 backplate geometry All wet parts made of high-quality, corrosion-resistant plastics (natural PVDF or PP-CF and natural PP) 		• ATEX-certified motors (
	 Equipped as standard with threaded connections in accordance with ISO 228-1 or flange connections Universally applicable, low-noise, and compact Optional approval for use in potentially explosive atmospheres (ATEX Zones 1 and 2) Conductive plastic parts available for ATEX Zone 1 (on request) All screws made of V4A stainless steel (1.4571) Optional ventilation or drainage holes for individual installation positions 	Special motors (available on request)	 Special voltages and fragment Three-phase motors with ATEX-certified motors with a rating T4 Four-pole motors with a UL- and CSA-certified motors of protection special types of protection class
Fields of application	Delivery of acids, bases, lye, or other corrosive, harmful, or toxic liquids in applications where leakage of even small quantities is undesirable and a hermetically sealed pump is required.		 Multi-voltage, e.g. D22 D220-332/Y380-575 V Direct-current motors (
	Delivery of highly pure and sensitive liquids where contamination must abso- lutely be avoided. For example in the following applications:	Operating conditions	 Flow rate up to 42 m³/ł Maximum head up to 2³ Liquid temperature: -5⁶
	 Electroplating and surface coating Wet chemical processes in semiconductor technology, solar cell production, and PCB manufacturing Wastewater and fresh water treatment Laboratory equipment and medical technology 		• Ambient temperature: - • Can be adapted to high
	 Environmental technology, emission control, gas scrubbers Battery production and energy storage High-purity applications, demineralised water, ultrapure water 		



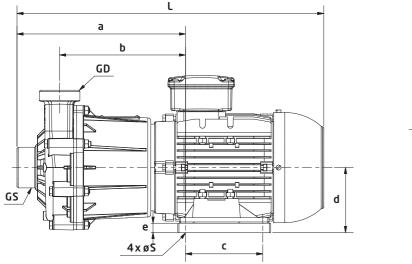
PP DM, FEP, FFKM als: SiC/SiC (silicon carbide) or carbon/SiC : D230/Y400 V-3ph @ 50 Hz, D277/Y480 V-3ph @ , also with PTC ors from 0.75 kW are in energy efficiency class (up to 1.1 kW: 230 V-1ph, 50/60 Hz, IP 55, rs (temperature rating T3) frequencies with integrated frequency converter rs with flameproof enclosure and temperature th 1450 rpm at 50 Hz motors tection, e.g. IP 65 asses, e.g. tropical insulation 220-290/Y380-500 V, 50 Hz; 5 V, 60 Hz (DC or BLDC) ı³/h 27 m -5°C to 95°C (PVDF); 0°C to 80°C (PP) e: -10°C to 40°C, higher temperatures on request gh-density liquids (up to 2.0)

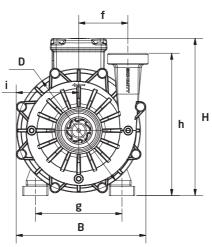
CHARACTERISTICS



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DIMENSIONS





	GS	GD															
NHM 200 model	Threadø DN (inches) (mm)		L (mm) (g (mm)			Weight (kg)
1.5 kW	G2 ¹ /4" d50 40	G2 ¹ /4" d50 40	496	210 2	254 1	10	272	203	125	200	105	15	80	140	230	101	
2.2 kW	G21/4" d50 40	G2 ¹ /4" d50 40	496	210 2	254 1	10	272	203	125	200	105	24	80	140	230	101	
3.0 kW	G2 ¹ /4" d50 40	G2 ¹ /4" d50 40	532	282 2	264 1	12	279	210,5	140	200	105	14	80	160	230	101	

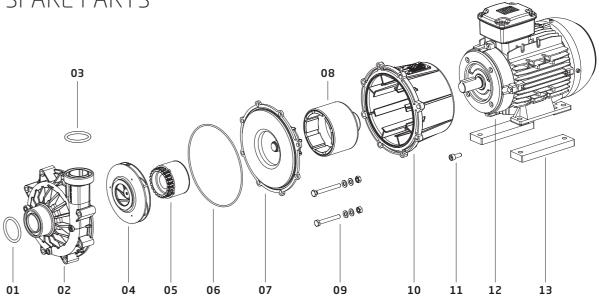
FITTINGS

SCHMITT offers an extensive range of fittings to facilitate the installation of the pump into your system:

- · Flange adaptors
- · Hose connectors
- · Welding connectors for stainless steel pipes
- · Reducers and expanders

- NPT-threaded adaptors
- \cdot Inlet strainers for vertical pumps
- \cdot Extension pipes for vertical pumps

SPARE PARTS



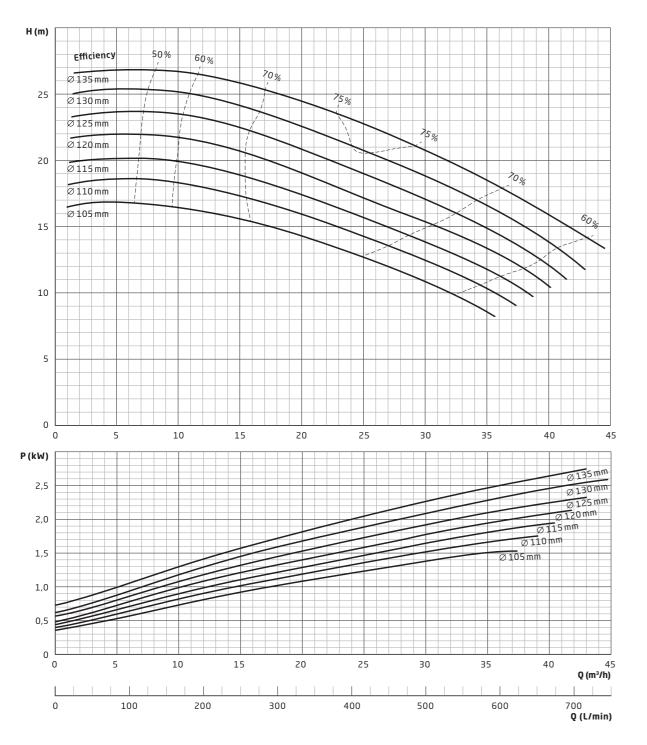
Position	Description	Available materials
01	O-ring (inlet port)	FKM, EPDM, FEP
02	Volute casing including bearing ring	Housing: PP-CF or PVDF Bearing ring: SiC
03	O-ring (outlet port)	FKM, EPDM, FEP
04	Impeller including bearing ring	Impeller: PP-CF or PVDF Bearing ring: SiC or carbon
05	Internal magnet including bearing sleeve	Internal magnet: PP, PVDF Bearing sleeve: SiC or carbon
06	O-ring (housing)	FKM, EPDM, FEP
07	Backplate including bearing bushing	Backplate: PP-CF or PVDF Bearing bushing: SiC
08	External magnet	
09	Screw set for housing	V4A
10	Enclosure	PP-CF
11	Screw set for enclosure	V4A
12	Motor	
13	Base plate	РР





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NHM200 CHARACTERISTIC LINES (1.5/2.2/3.0 kw)



BEING YOUR PERSONAL POINT OF CONTACT: +49 7243 5453-0



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Last update: 12/2022