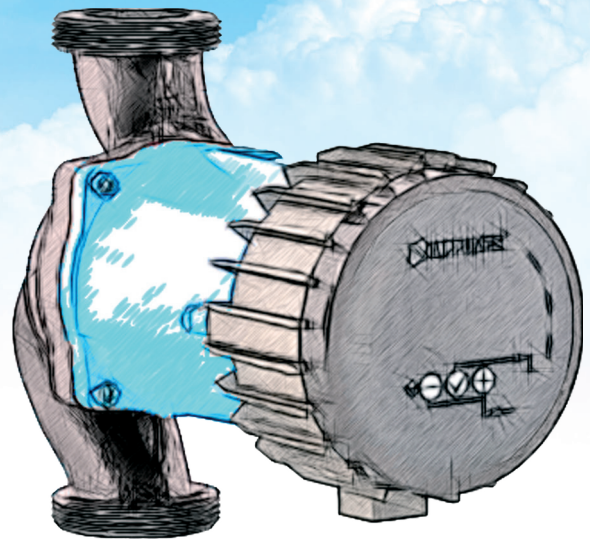




# IMP PUMPS®

Intelligent Motor Pumps

[www.imp-pumps.com](http://www.imp-pumps.com)



***Electronically controlled high-efficiency pumps  
for heating, air conditioning, cooling and sanitary water***



*Investing in your future*  
OPERATION PART FINANCED BY THE EUROPEAN UNION  
European Regional Development Fund

## TECHNICAL DATA



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## ErP Regulation (Energy related Products)

ErP Regulation (Energy related Products) translates as energy-relevant products. The objective of this Regulation 2009 125 EC, is to reduce energy consumption according to the environmental requirements that are being introduced in the EU in the field of circulation pumps in 2013. In the course of the next seven years the Regulation will be put into practice in the following three steps:

- The first step from 01/08 in 2015 for the energy index up to (max.) 0.23 - Part 2
- The second step from 01/01/2020 for the energy index up to (max.) 0.23 - Part 2 – including pumps, which are being replaced in HVAC systems

The benchmark for most efficient circulators is  $EEL \leq 0,20$  - Part 2.

**The IMP PUMPS meet environmental requirements according to ErP regulation with high-efficiency pumps with affordable prices.**

## GENERAL INFORMATION

ALL PRODUCTS AND COMPONENTS ARE MANUFACTURED FROM ENVIRONMENTALLY FRIENDLY MATERIALS.

UPON DISPOSAL INTERNAL ENVIRONMENTAL REGULATION MUST BE CONSIDERED.

FURTHER INFORMATION ON ALL PUMPING PROGRAMS WITH TECHNICAL DATA ARE AVAILABLE ON [WWW.IMP-PUMPS.COM](http://WWW.IMP-PUMPS.COM)

GENERAL SALES CONDITIONS AND TERMS OF PAYMENT – DEPENDING ON THE AGREEMENT WITH THE FIRM IMP PUMPS.

IMAGES IN CATALOGUE ARE FOR ILLUSTRATIVE PURPOSES ONLY.

TECHNICAL ADJUSTMENTS AND REVISIONS ARE NOT PERMITTED!

## ABOUT US

IMP PUMPS is Slovenian manufacturer of pumps and pumping systems located in Komenda in Slovenia. Company designs, develops, manufactures, distributes and maintains pumps and pumping systems. With products and services of its own and from strategic partners, company is positioned as provider of integrated solutions. With specialized skills company resolves the problems relating to the transportation of liquid media. This ensures the comfort of home environment and optimal working conditions in the industry.

IMP PUMPS increased turnover in 2014 for 23%. More than 95 % of production is sold in over 60 countries around the world. Company is innovator in the field of electro commutated submersible motors and has the quality certificate ISO 9001:2008.

## History

IMP PUMPS was founded in 1947 and has existed as part of the IMP until the late 1980s. Company successfully survived the change of the economic system and the turbulent nineties and stood on its own feet. Company was privatized in 1997 and 1999. In the year 2000, the company was restructured and renamed in IMP PUMPS d.o.o.. Slovenia's entry into the EU was another initiative for IMP PUMPS intensive development of the sales network in the changing European market, either directly or through its business partners.

At the same time investments in development, marketing, information technology, and philosophy of e-commerce were made.

## Present

IMP PUMPS is present with its products and services in many world markets (Eastern and Western Europe, North America, Asia, North Africa and Australia). IMP PUMPS is also a member of EUROPUMP the European Association of Pump Manufacturers. In pump design, high priority is given to the improvement of the energy efficiency of pumps. Excellent results have been reached by the new NMT pump series, using permanent magnets technology for very high efficiency rates.

IMP PUMPS is one of the few European manufacturers, which over the years developed and launched a new generation of pumps with electronically controlled wet running motors. This is one of the main reasons that the company IMP PUMPS is ranked among Europe's technological elite.

Reference: <http://imp-pumps.com/en/reference/>

## Future

IMP PUMPS Company employees are aware they have become part of global development and the importance of the environment in which they live. Our products are energy efficient and environmentally friendly. We are constantly developing new and more cost effective pumps replacing the old types and investing in the development of intelligent pumps with an



emphasis on digitization and communication. The company plans to further expand its sales on foreign markets and enhance its position among the four largest manufacturer of circulator pumps in Europe.

In the spirit of its motto "The honest product for the honest price", IMP PUMPS intends to maintain the excellent quality of its products at the favorable prices for the customer, along with the application of the latest technologies and prompt service.



## Product overview

The basic production program of IMP PUMPS are circulating pumps for HVAC application. Pumps are flanged or threaded and single or double design with a bronze or cast iron hydraulic casing. All cast iron hydraulics are covered with cataphoresis.

### Wet running circulating pumps

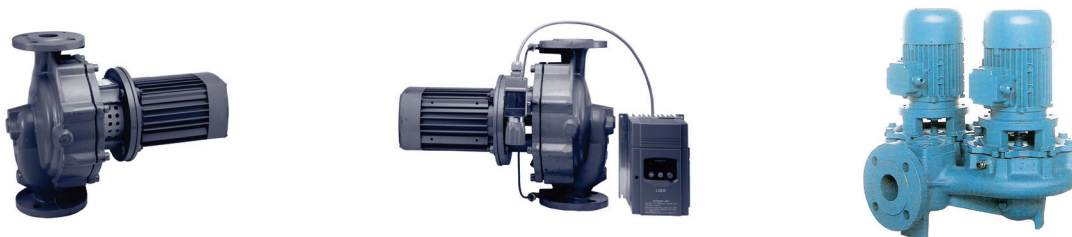
**NMT (electronic savings, ECM, SAN circulation for sanitary water)**



**SAN - for sanitary water**



### Dry running circulating pump



**CL, CV, PV, NR (in-line, bloc, with frequency converter)**

#### Further range of forms

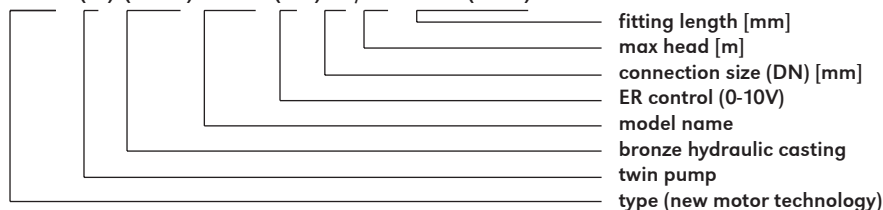
- Vertical / horizontal multistage Pumps
- Vertical submersible pumps
- Monoblock centrifugal pumps
- Automatic pressure stations
- Self-priming centrifugal pumps
- Pressure boosting units
- Waste water - sewage pumps



## NMT PLUS (small pumps)



NMT (D) (SAN) PLUS (ER) xx/xx - 180 (130)



### Electronically controlled wet running circulating pump

For all heating systems, air conditioning, closed cooling circuits and industrial systems, used in accordance with VDI 2035.

#### Product details

- ECM permanent magnet technology with energy efficiency; EEI ≤ 0.16; 0.18; 0.19
- proportional pressure control
- constant speed
- built-in electric protection
- easy installation and quiet operation
- automatic air venting
- quality and compact construction for durability

#### NMT PLUS ER

- communication with the control module, analog 0-10V

#### NMTD PLUS

- twin pump

#### NMT PLUS SAN

- bronzed body (for sanitary water)

#### NMT PLUS PWM

- solar profile
- heating profile

### Simple control - all in one button:

button flashes - proportional mode  
briefly pressing for switching between curves, then holding approx 5s  
button light is on - constant mode  
briefly pressing for switching between curves



### Minimum inlet pressure

0.05 bar <75 °C (fluid temperature)

0.28 bar <90 °C (fluid temperature)

Material	
Hydraulic casing	cast iron/bronze
Impeller	polyamid
Shaft	ceramics
Bearings	ceramics
Rotor can	stainless steel

Technical specification	
Q	0,6 - 6 m³/h
H	1 - 8 m
DN	15/20/25/32
Pipe connection	130 or 180mm
Insulation class	F
Degree of protection	IP 44
Voltage	1 ~ 230V, 50 Hz

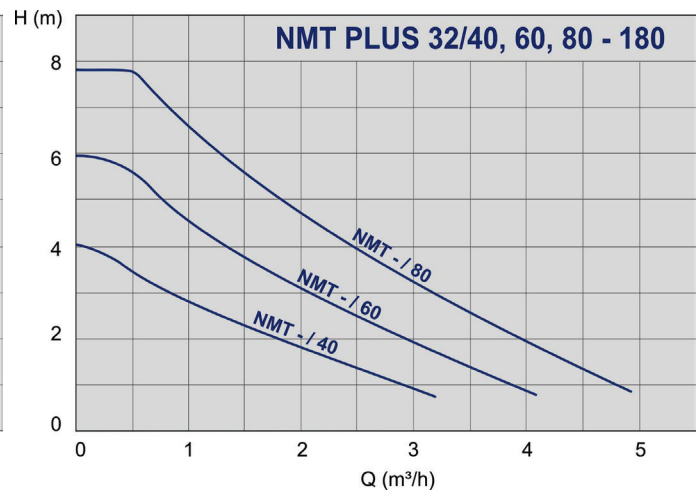
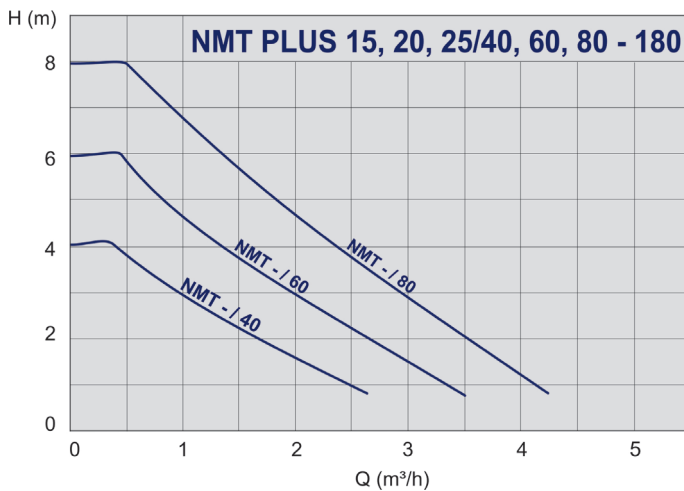
### Permissible mediums

Water, mixed with glycol, parameters must be checked in the mixture of water with over 20% of glycol.

Pure, non-explosive liquid media free of mineral oils and solid particles. Medium temperature from + 5°C to + 110°C, ambient temperature with max. surroundings temperature 40°C.



## Performance range



## NMT PLUS

Code	Type	EEI	Fitting length [mm]	Pipe connection	Pmax [W]	Voltage [V] 50Hz
979523951	NMT PLUS 15/40-130	0,16	130	Rp ½	20	1x230
979523841	NMT PLUS 20/40-130	0,16	130	Rp ¾	20	1x230
979523842	NMT PLUS 25/40-130	0,16	130	Rp 1	20	1x230
979523843	NMT PLUS 15/60-130	0,18	130	Rp ½	35	1x230
979523844	NMT PLUS 20/60-130	0,18	130	Rp ¾	35	1x230
979523845	NMT PLUS 25/60-130	0,18	130	Rp 1	35	1x230
979523846	NMT PLUS 15/80-130	0,21	130	Rp ½	55	1x230
979523847	NMT PLUS 20/80-130	0,21	130	Rp ¾	55	1x230
979523848	NMT PLUS 25/80-130	0,21	130	Rp 1	55	1x230
979523849	NMT PLUS 20/40-180	0,15	180	Rp ¾	20	1x230
979523850	NMT PLUS 25/40-180	0,15	180	Rp 1	20	1x230
979523851	NMT PLUS 32/40-180	0,15	180	Rp 1¼	20	1x230
979523852	NMT PLUS 20/60-180	0,17	180	Rp ¾	35	1x230
979523853	NMT PLUS 25/60-180	0,17	180	Rp 1	35	1x230
979523854	NMT PLUS 32/60-180	0,17	180	Rp 1¼	35	1x230
979523855	NMT PLUS 20/80-180	0,19	180	Rp ¾	55	1x230
979523856	NMT PLUS 25/80-180	0,19	180	Rp 1	55	1x230
979523857	NMT PLUS 32/80-180	0,19	180	Rp 1¼	55	1x230

## NMTD PLUS - twin pump

Code	Type	EEI	Fitting length [mm]	Pipe connection	Pmax [W]	Voltage [V] 50Hz
979523937	NMTD PLUS 25/40-180	0,15	180	Rp 1	20	1x230
979523938	NMTD PLUS 32/40-180	0,15	180	Rp 1¼	20	1x230
979523939	NMTD PLUS 25/60-180	0,17	180	Rp 1	35	1x230
979523940	NMTD PLUS 32/60-180	0,17	180	Rp 1¼	35	1x230
979523941	NMTD PLUS 25/80-180	0,19	180	Rp 1	55	1x230
979523942	NMTD PLUS 32/80-180	0,19	180	Rp 1¼	55	1x230



## NMT PLUS ER - 0-10V analog input

Code	Type	EEI	Fitting length [mm]	Pipe connection	Pmax [W]	Voltage [V] 50Hz
979523870	NMT PLUS ER 15/40-130	0,16	130	Rp ½	20	1x230
979523871	NMT PLUS ER 20/40-130	0,16	130	Rp ¾	20	1x230
979523872	NMT PLUS ER 25/40-130	0,16	130	Rp 1	20	1x230
979523873	NMT PLUS ER 15/60-130	0,19	130	Rp ½	35	1x230
979523874	NMT PLUS ER 20/60-130	0,18	130	Rp ¾	35	1x230
979523875	NMT PLUS ER 25/60-130	0,18	130	Rp 1	35	1x230
979523876	NMT PLUS ER 15/80-130	0,21	130	Rp 1	55	1x230
979523877	NMT PLUS ER 20/80-130	0,21	130	Rp ¾	55	1x230
979523878	NMT PLUS ER 25/80-130	0,21	130	Rp 1	55	1x230
979523879	NMT PLUS ER 20/40-180	0,15	180	Rp ¾	20	1x230
979523880	NMT PLUS ER 25/40-180	0,15	180	Rp 1	20	1x230
979523881	NMT PLUS ER 32/40-180	0,15	180	Rp 1¼	20	1x230
979523882	NMT PLUS ER 20/60-180	0,17	180	Rp ¾	35	1x230
979523883	NMT PLUS ER 25/60-180	0,17	180	Rp 1	35	1x230
979523884	NMT PLUS ER 32/60-180	0,17	180	Rp 1¼	35	1x230
979523885	NMT PLUS ER 20/80-180	0,19	180	Rp ¾	55	1x230
979523886	NMT PLUS ER 25/80-180	0,19	180	Rp 1	55	1x230
979523887	NMT PLUS ER 32/80-180	0,19	180	Rp 1¼	55	1x230

## NMT PLUS PWM SOLAR - digital input

Code	Type	EEI	Fitting length [mm]	Pipe connection	Pmax [W]	Voltage [V] 50Hz
979523891	NMT PLUS PWM S 15/40-130	0,16	130	Rp ½	20	1x230
979523893	NMT PLUS PWM S 20/40-130	0,16	130	Rp ¾	20	1x230
979523895	NMT PLUS PWM S 25/40-130	0,16	130	Rp 1	20	1x230
979523897	NMT PLUS PWM S 15/60-130	0,19	130	Rp ½	35	1x230
979523899	NMT PLUS PWM S 20/60-130	0,18	130	Rp ¾	35	1x230
979523901	NMT PLUS PWM S 25/60-130	0,18	130	Rp 1	35	1x230
979523903	NMT PLUS PWM S 15/80-130	0,21	130	Rp 1	55	1x230
979523905	NMT PLUS PWM S 20/80-130	0,21	130	Rp ¾	55	1x230
979523907	NMT PLUS PWM S 25/80-130	0,21	130	Rp 1	55	1x230
979523909	NMT PLUS PWM S 20/40-180	0,15	180	Rp ¾	20	1x230
979523911	NMT PLUS PWM S 25/40-180	0,15	180	Rp 1	20	1x230
979523913	NMT PLUS PWM S 32/40-180	0,15	180	Rp 1¼	20	1x230
979523915	NMT PLUS PWM S 20/60-180	0,17	180	Rp ¾	35	1x230
979523917	NMT PLUS PWM S 25/60-180	0,17	180	Rp 1	35	1x230
979523919	NMT PLUS PWM S 32/60-180	0,17	180	Rp 1¼	35	1x230
979523921	NMT PLUS PWM S 20/80-180	0,19	180	Rp ¾	55	1x230
979523923	NMT PLUS PWM S 25/80-180	0,19	180	Rp 1	55	1x230
979523925	NMT PLUS PWM S 32/80-180	0,19	180	Rp 1¼	55	1x230



## NMT PLUS PWM HEATING - digital input

Code	Type	EEI	Fitting length [mm]	Pipe connection	Pmax [W]	Voltage [V] 50Hz
979523890	NMT PLUS PWM H 15/40-130	0,16	130	Rp ½	20	1x230
979523892	NMT PLUS PWM H 20/40-130	0,16	130	Rp ¾	20	1x230
979523894	NMT PLUS PWM H 25/40-130	0,16	130	Rp 1	20	1x230
979523896	NMT PLUS PWM H 15/60-130	0,19	130	Rp ½	35	1x230
979523898	NMT PLUS PWM H 20/60-130	0,18	130	Rp ¾	35	1x230
979523900	NMT PLUS PWM H 25/60-130	0,18	130	Rp 1	35	1x230
979523902	NMT PLUS PWM H 15/80-130	0,21	130	Rp ½	55	1x230
979523904	NMT PLUS PWM H 20/80-130	0,21	130	Rp ¾	55	1x230
979523906	NMT PLUS PWM H 25/80-130	0,21	130	Rp 1	55	1x230
979523908	NMT PLUS PWM H 20/40-180	0,15	180	Rp ¾	20	1x230
979523910	NMT PLUS PWM H 25/40-180	0,15	180	Rp 1	20	1x230
979523912	NMT PLUS PWM H 32/40-180	0,15	180	Rp 1¼	20	1x230
979523914	NMT PLUS PWM H 20/60-180	0,17	180	Rp ¾	35	1x230
979523916	NMT PLUS PWM H 25/60-180	0,17	180	Rp 1	35	1x230
979523918	NMT PLUS PWM H 32/60-180	0,17	180	Rp 1¼	35	1x230
979523920	NMT PLUS PWM H 20/80-180	0,19	180	Rp ¾	55	1x230
979523922	NMT PLUS PWM H 25/80-180	0,19	180	Rp 1	55	1x230
979523924	NMT PLUS PWM H 32/80-180	0,19	180	Rp 1¼	55	1x230

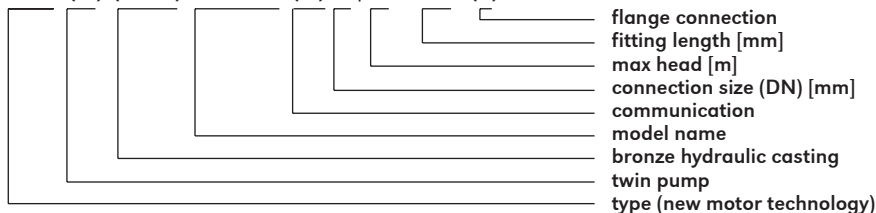
## NMT SAN PLUS - for sanitary hot water systems

Code	Type	EEI	Fitting length [mm]	Pipe connection	Pmax [W]	Voltage [V] 50Hz
979523931	NMT SAN PLUS 20/40-130	0,15	130	Rp ¾	20	1x230
979523932	NMT SAN PLUS 25/40-130	0,15	130	Rp 1	20	1x230
979523933	NMT SAN PLUS 20/60-130	0,17	130	Rp ¾	35	1x230
979523934	NMT SAN PLUS 25/60-130	0,17	130	Rp 1	35	1x230
979523935	NMT SAN PLUS 20/80-130	0,19	130	Rp ¾	55	1x230
979523936	NMT SAN PLUS 25/80-130	0,19	130	Rp 1	55	1x230

## NMT SMART



NMT (D) (SAN) SMART (C) xx/xx - 180 (F)



### Electronically controlled wet running circulating pump

For all heating systems, air conditioning, closed cooling circuits and industrial systems, used in accordance with VDI 2035 and ErP.

### High efficient wet running pump with auto adapt function

- ECM permanent magnet technology with high energy efficiency;  $EEL \leq 0,21$
- LED display for control
- built-in electric protection
- easy handling and instalation, low noise operation and automatic venting
- robust and compact construction for long life

#### Automatic operation

- Immediate adaptation to the system

#### Manual adjustment

- Proportional pressure, constant pressure, constant speed, night mode

### Communication

SMART C - with NMTC communication module (option): Ethernet, Modbus RTU, analog control input 0-10V, 3 analog inputs/outputs, 1 rele output

### Minimum inlet pressure

0.05 bar <75 ° C (fluid temperature)

0.28 bar <90 ° C (fluid temperature)

#### Material

Hydraulic casing	cast iron/bronze
Impeller	PES
Shaft	stainless steel
Bearings	grafit
Rotor can	stainless steel

#### Technical specification

Q	7,5 - 12 m³/h
H	4 - 12 m
P	PN10 bar
DN	25/32/40/50
Pipe connection	180/220/240 mm
Installation	flange, threaded
Insulation class	F
Degree of protection	IP 44
Voltage	1 ~ 230V, 50 Hz

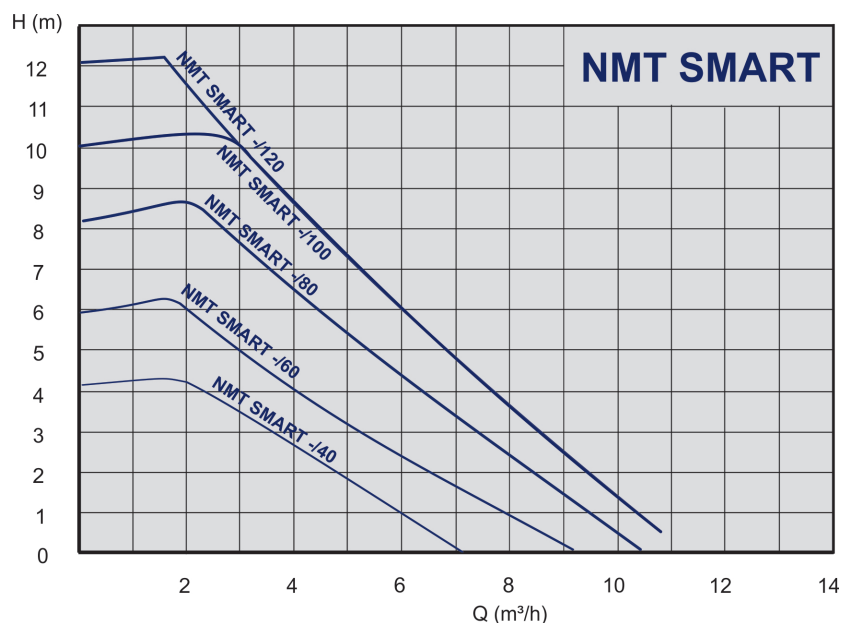
### Permissible mediums

Water, mixed with glycol, parameters must be checked in the mixture of water with over 20% of glycol.

Pure, non-explosive liquid media free of mineral oils and solid particles. Medium temperature from + 2°C to + 110°C, ambient temperature with max. surroundings temperature 40°C.



## Performance range



## NMT SMART - threaded pumps

Code	Type	EEl	Fitting length L [mm]	Pipe connection	Pmax [W]	Voltage [V] 50Hz
979523477	NMT SMART 25/40-180	≤ 0,21	180	Rp 1	60	1x230
979523480	NMT SMART 25/60-180	≤ 0,21	180	Rp 1	90	1x230
979523484	NMT SMART 25/80-180	≤ 0,21	180	Rp 1	140	1x230
979523301	NMT SMART 25/100-180	≤ 0,21	180	Rp 1	180	1x230
979523664	NMT SMART 25/120-180	≤ 0,21	180	Rp 1	180	1x230
979523478	NMT SMART 32/40-180	≤ 0,21	180	Rp 1½	60	1x230
979523481	NMT SMART 32/60-180	≤ 0,21	180	Rp 1½	90	1x230
979523485	NMT SMART 32/80-180	≤ 0,21	180	Rp 1½	140	1x230
979523216	NMT SMART 32/100-180	≤ 0,21	180	Rp 1½	180	1x230
979523771	NMT SMART 32/120-180	≤ 0,21	180	Rp 1½	180	1x230

## NMT SMART C - threaded pumps with communication module

Code	Type	EEl	Fitting length L [mm]	Pipe connection	Pmax [W]	Voltage [V] 50Hz
979523488	NMT SMART C 25/40-180	≤ 0,21	180	Rp 1	60	1x230
979523491	NMT SMART C 25/60-180	≤ 0,21	180	Rp 1	90	1x230
979523495	NMT SMART C 25/80-180	≤ 0,21	180	Rp 1	140	1x230
979523371	NMT SMART C 25/100-180	≤ 0,21	180	Rp 1	180	1x230
979524538	NMT SMART C 25/120-180	≤ 0,21	180	Rp 1	180	1x230
979523489	NMT SMART C 32/40-180	≤ 0,21	180	Rp 1½	60	1x230
979523492	NMT SMART C 32/60-180	≤ 0,21	180	Rp 1½	90	1x230
979523496	NMT SMART C 32/80-180	≤ 0,21	180	Rp 1½	140	1x230
979523367	NMT SMART C 32/100-180	≤ 0,21	180	Rp 1½	180	1x230
979524539	NMT SMART C 32/120-180	≤ 0,21	180	Rp 1½	180	1x230

## NMTD SMART - threaded pumps, twin version

Code	Type	EEI	Fitting length L [mm]	Pipe connection	Pmax [W]	Voltage [V] 50Hz
979523546	NMTD SMART 32/40-180	≤ 0,21	180	Rp 1¼	2x60	1x230
979523547	NMTD SMART 32/60-180	≤ 0,21	180	Rp 1¼	2x90	1x230
979523548	NMTD SMART 32/80-180	≤ 0,21	180	Rp 1¼	2x140	1x230
979523549	NMTD SMART 32/100-180	≤ 0,21	180	Rp 1¼	2x180	1x230

## NMT SMART F - flanged pumps

Code	Type	EEI	Fitting length L [mm]	Pipe connection	Pmax [W]	Voltage [V] 50Hz
979523479	NMT SMART 32/40 F	≤ 0,21	220	DN32	60	1x230
979523482	NMT SMART 32/60 F	≤ 0,21	220	DN32	90	1x230
979523486	NMT SMART 32/80 F	≤ 0,21	220	DN32	140	1x230
979523284	NMT SMART 32/100 F	≤ 0,21	220	DN32	180	1x230
979523667	NMT SMART 32/120 F	≤ 0,21	220	DN32	180	1x230
979523514	NMT SMART 40/40 F	≤ 0,21	220	DN40	60	1x230
979523483	NMT SMART 40/60 F	≤ 0,21	220	DN40	90	1x230
979523487	NMT SMART 40/80 F	≤ 0,21	220	DN40	140	1x230
979523285	NMT SMART 40/100 F	≤ 0,21	220	DN40	180	1x230
979524541	NMT SMART 40/120 F	≤ 0,21	220	DN40	180	1x230
979523286	NMT SMART 50/100 F	≤ 0,21	240	DN50	180	1x230
979524542	NMT SMART 50/120 F	≤ 0,21	240	DN50	180	1x230

## NMT SMART C F - flanged pumps with communication module

Code	Type	EEI	Fitting length L [mm]	Pipe connection	Pmax [W]	Voltage [V] 50Hz
979523490	NMT SMART C 32/40 F	≤ 0,21	220	DN32	60	1x230
979523493	NMT SMART C 32/60 F	≤ 0,21	220	DN32	90	1x230
979523497	NMT SMART C 32/80 F	≤ 0,21	220	DN32	140	1x230
979523368	NMT SMART C 32/100 F	≤ 0,21	220	DN32	180	1x230
979524540	NMT SMART C 32/120 F	≤ 0,21	220	DN32	180	1x230
979523515	NMT SMART C 40/40 F	≤ 0,21	220	DN40	60	1x230
979523494	NMT SMART C 40/60 F	≤ 0,21	220	DN40	90	1x230
979523498	NMT SMART C 40/80 F	≤ 0,21	220	DN40	140	1x230
979523369	NMT SMART C 40/100 F	≤ 0,21	220	DN40	180	1x230
979524543	NMT SMART C 40/120 F	≤ 0,21	220	DN40	180	1x230
979523370	NMT SMART C 50/100 F	≤ 0,21	240	DN50	180	1x230
979524544	NMT SMART C 50/120 F	≤ 0,21	240	DN50	180	1x230



## NMTD SMART F - flanged pumps, twin version

Code	Type	EEI	Fitting length L [mm]	Pipe connection	Pmax [W]	Voltage [V] 50Hz
979523550	NMTD SMART 40/40 F	≤ 0,21	220	DN40	2x60	1x230
979523551	NMTD SMART 40/60 F	≤ 0,21	220	DN40	2x90	1x230
979523552	NMTD SMART 40/80 F	≤ 0,21	220	DN40	2x140	1x230
979521553	NMTD SMART 40/100 F	≤ 0,21	220	DN40	2x180	1x230
979524545	NMTD SMART 40/120 F	≤ 0,21	220	DN40	2x180	1x230

## NMT SAN SMART - threaded bronze hydraulic pumps

Code	Type	EEI	Fitting length L [mm]	Pipe connection	Pmax [W]	Voltage [V] 50Hz
979524527	NMT SAN SMART 25/40-180	≤ 0,21	180	Rp 1	60	1x230
979524528	NMT SAN SMART 25/60-180	≤ 0,21	180	Rp 1	90	1x230
979524529	NMT SAN SMART 25/80-180	≤ 0,21	180	Rp 1	140	1x230
979524530	NMT SAN SMART 25/100-180	≤ 0,21	180	Rp 1	180	1x230
979524531	NMT SAN SMART 25/120-180	≤ 0,21	180	Rp 1	180	1x230
979524479	NMT SAN SMART 32/40-180	≤ 0,21	180	Rp 1¼	60	1x230
979524480	NMT SAN SMART 32/60-180	≤ 0,21	180	Rp 1¼	90	1x230
979524481	NMT SAN SMART 32/80-180	≤ 0,21	180	Rp 1¼	140	1x230
979524482	NMT SAN SMART 32/100-180	≤ 0,21	180	Rp 1¼	180	1x230
979524483	NMT SAN SMART 32/120-180	≤ 0,21	180	Rp 1¼	180	1x230

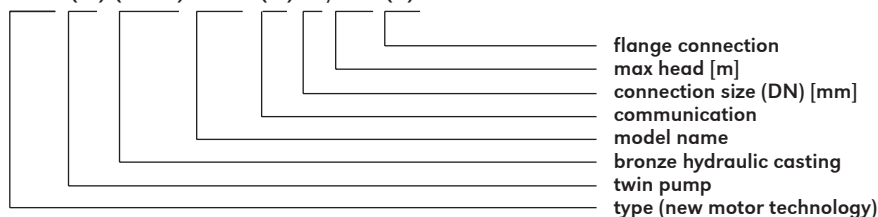
## NMT SAN SMART C - threaded bronze hydraulic pumps with communication module

Code	Type	EEI	Fitting length L [mm]	Pipe connection	Pmax [W]	Voltage [V] 50Hz
979524532	NMT SAN SMART C 25/40-180	≤ 0,21	180	Rp 1	60	1x230
979524533	NMT SAN SMART C 25/60-180	≤ 0,21	180	Rp 1	90	1x230
979524534	NMT SAN SMART C 25/80-180	≤ 0,21	180	Rp 1	140	1x230
979524535	NMT SAN SMART C 25/100-180	≤ 0,21	180	Rp 1	180	1x230
979524536	NMT SAN SMART C 25/120-180	≤ 0,21	180	Rp 1	180	1x230
979524484	NMT SAN SMART C 32/40-180	≤ 0,21	180	Rp 1¼	60	1x230
979524485	NMT SAN SMART C 32/60-180	≤ 0,21	180	Rp 1¼	90	1x230
979524486	NMT SAN SMART C 32/80-180	≤ 0,21	180	Rp 1¼	140	1x230
979524487	NMT SAN SMART C 32/100-180	≤ 0,21	180	Rp 1¼	180	1x230
979524488	NMT SAN SMART C 32/120-180	≤ 0,21	180	Rp 1¼	180	1x230

## NMT MAX



NMT (D) (SAN) MAX (C) xx/xxx (F)



### Electronically controlled wet running circulating pump

For all heating systems, air conditioning, closed cooling circuits and industrial systems, used in accordance with VDI 2035 and ErP.

### High efficient wet running pump with auto adapt function

- ECM permanent magnet technology with high energy efficiency;  $EEL \leq 0,21$
- LED display for control
- built-in electric protection
- easy handling and installation, low noise operation and automatic venting
- robust and compact construction for long life

#### Automatic operation

- Immediate adaptation to the system

#### Manual adjustment

- Proportional pressure, constant pressure, constant speed, night mode

#### Communication

MAX C - with NMTC communication module (option): Ethernet, Modbus RTU, analog control input 0-10V, 3 analog inputs/outputs, 1 rele output

#### Minimum inlet pressure

0.05 bar <75 ° C (fluid temperature)

0.28 bar <90 ° C (fluid temperature)

#### Material

Hydraulic casing	cast iron/bronze
Impeller	PES
Shaft	stainless steel
Bearings	grafit
Rotor can	stainless steel

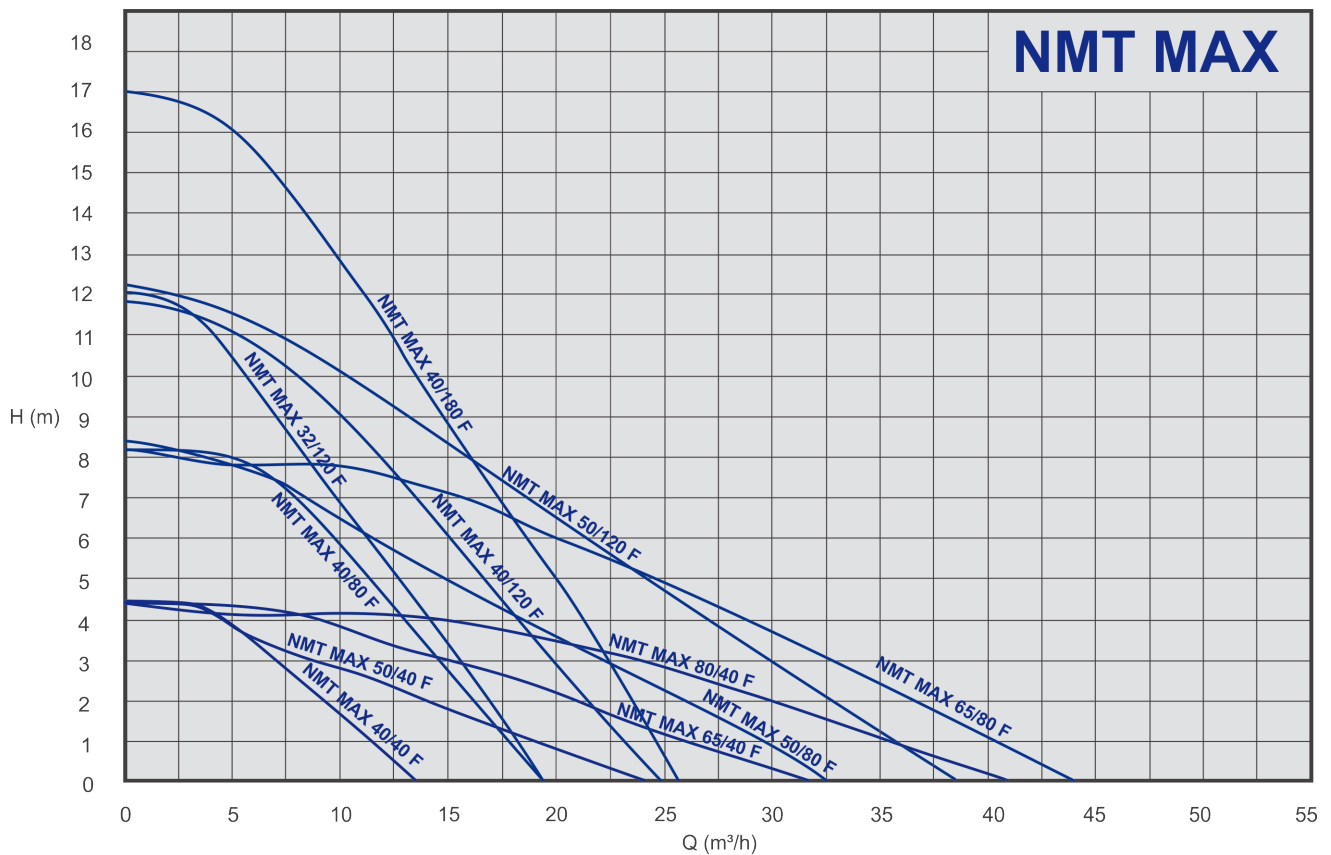
#### Technical specification

Q	13 - 44 m³/h
H	4 - 12 m
P	PN 6/10 bar
DN	40/50/65/80
Installation	flange
Insulation class	F
Degree of protection	IP 44
Voltage	1 ~ 230V, 50/60 Hz

#### Permissible mediums

Water, mixed with glycol, parameters must be checked in the mixture of water with over 20% of glycol. Pure, non-explosive liquid media free of mineral oils and solid particles. Medium temperature from + 2°C to + 110°C, ambient temperature with max. surroundings temperature 40°C.

## Performance range



## NMT MAX - flanged pumps

Code	Type	EEl	Fitting length L [mm]	Pipe connection	PN	Pmax [W]	Voltage [V] 50Hz
979524665	NMT MAX 32/120 F	≤ 0,22	220	DN32	PN6/10	370	1x230
979523694	NMT MAX 40/40 F	≤ 0,21	220	DN40	PN6/10	110	1x230
979524027	NMT MAX 40/40 F	≤ 0,21	250	DN40	PN6/10	110	1x230
979523863	NMT MAX 40/80 F	≤ 0,21	220	DN40	PN6/10	270	1x230
979523861	NMT MAX 40/80 F	≤ 0,21	250	DN40	PN6/10	270	1x230
979523839	NMT MAX 40/120 F	≤ 0,21	220	DN40	PN6/10	480	1x230
979523502	NMT MAX 40/120 F	≤ 0,21	250	DN40	PN6/10	480	1x230
979524492	NMT MAX 40/180 F	≤ 0,23	220	DN40	PN6/10	680	1x230
979524490	NMT MAX 40/180 F	≤ 0,23	250	DN40	PN6/10	680	1x230
979524522	NMT MAX 50/40 F	≤ 0,23	280	DN50	PN6/10	160	1x230
979524547	NMT MAX 50/80 F	≤ 0,22	280	DN50	PN6/10	370	1x230
979523869	NMT MAX 50/120 F	≤ 0,21	280	DN50	PN6/10	560	1x230
979524756	NMT MAX 65/40 F	≤ 0,23	340	DN65	PN6/10	230	1x230
979524757	NMT MAX 65/80 F	≤ 0,22	340	DN65	PN6/10	560	1x230
979524774	NMT MAX 80/40 F PN6	≤ 0,22	360	DN65	PN6	390	1x230
979524780	NMT MAX 80/40 F PN10	≤ 0,22	360	DN65	PN10	390	1x230

## NMT MAX C - flanged fump with communication module

Code	Type	EEI	Fitting length L [mm]	Pipe connection	PN	Pmax [W]	Voltage [V] 50Hz
979524666	NMT MAX C 32/120 F	≤ 0,22	220	DN32	PN6/10	370	1x230
979524026	NMT MAX C 40/40 F	≤ 0,21	220	DN40	PN6/10	110	1x230
979523695	NMT MAX C 40/40 F	≤ 0,21	250	DN40	PN6/10	110	1x230
979523867	NMT MAX C 40/80 F	≤ 0,21	220	DN40	PN6/10	270	1x230
979523865	NMT MAX C 40/80 F	≤ 0,21	250	DN40	PN6/10	270	1x230
979523840	NMT MAX C 40/120 F	≤ 0,21	220	DN40	PN6/10	480	1x230
979523503	NMT MAX C 40/120 F	≤ 0,21	250	DN40	PN6/10	480	1x230
979524493	NMT MAX C 40/180 F	≤ 0,23	220	DN40	PN6/10	680	1x230
979524491	NMT MAX C 40/180 F	≤ 0,23	250	DN40	PN6/10	680	1x230
979524523	NMT MAX C 50/40 F	≤ 0,23	280	DN50	PN6/10	160	1x230
979524548	NMT MAX C 50/80 F	≤ 0,22	280	DN50	PN6/10	370	1x230
979524028	NMT MAX C 50/120 F	≤ 0,21	280	DN50	PN6/10	560	1x230
979524762	NMT MAX C 65/40 F	≤ 0,23	340	DN65	PN6/10	230	1x230
979524763	NMT MAX C 65/80 F	≤ 0,22	340	DN65	PN6/10	560	1x230
979524777	NMT MAX C 80/40 F PN6	≤ 0,22	360	DN65	PN6	390	1x230
979524783	NMT MAX C 80/40 F PN10	≤ 0,22	360	DN65	PN10	390	1x230

## NMTD MAX - twin pump

Code	Type	EEI	Fitting length L [mm]	Pipe connection	PN	Pmax [W]	Voltage [V] 50Hz
979524667	NMTD MAX 32/120 F	≤ 0,22	220	DN32	PN6/10	370	1x230
979524032	NMTD MAX 40/40 F	≤ 0,21	220	DN40	PN6/10	110	1x230
979524034	NMTD MAX 40/40 F	≤ 0,21	250	DN40	PN6/10	110	1x230
979524518	NMTD MAX 40/80 F	≤ 0,21	220	DN40	PN6/10	270	1x230
979524519	NMTD MAX 40/80 F	≤ 0,21	250	DN40	PN6/10	270	1x230
979523708	NMTD MAX 40/120 F	≤ 0,21	220	DN40	PN6/10	480	1x230
979523710	NMTD MAX 40/120 F	≤ 0,21	250	DN40	PN6/10	480	1x230
979524496	NMTD MAX 40/180 F	≤ 0,23	220	DN40	PN6/10	680	1x230
979524494	NMTD MAX 40/180 F	≤ 0,23	250	DN40	PN6/10	680	1x230
979524524	NMTD MAX 50/40 F	≤ 0,23	280	DN50	PN6/10	160	1x230
979524549	NMTD MAX 50/80 F	≤ 0,22	280	DN50	PN6/10	370	1x230
979523997	NMTD MAX 50/120 F	≤ 0,21	280	DN50	PN6/10	560	1x230
979524768	NMTD MAX 65/40 F	≤ 0,23	340	DN65	PN6/10	230	1x230
979524769	NMTD MAX 65/80 F	≤ 0,22	340	DN65	PN6/10	560	1x230
979524786	NMTD MAX 80/40 F PN6	≤ 0,22	360	DN65	PN6	390	1x230
979524792	NMTD MAX 80/40 F PN10	≤ 0,22	360	DN65	PN10	390	1x230



## NMTD MAX C - twin pump with communication module

Code	Type	EEI	Fitting length L [mm]	Pipe connection	PN	Pmax [W]	Voltage [V] 50Hz
979524668	NMTD MAX C 32/120 F	≤ 0,22	220	DN32	PN6/10	370	1x230
979524033	NMTD MAX C 40/40 F	≤ 0,21	220	DN40	PN6/10	110	1x230
979524035	NMTD MAX C 40/40 F	≤ 0,21	250	DN40	PN6/10	110	1x230
979524520	NMTD MAX C 40/80 F	≤ 0,21	220	DN40	PN6/10	270	1x230
979524521	NMTD MAX C 40/80 F	≤ 0,21	250	DN40	PN6/10	270	1x230
979523709	NMTD MAX C 40/120 F	≤ 0,21	220	DN40	PN6/10	480	1x230
979523711	NMTD MAX C 40/120 F	≤ 0,21	250	DN40	PN6/10	480	1x230
979524497	NMTD MAX C 40/180 F	≤ 0,23	220	DN40	PN6/10	680	1x230
979524495	NMTD MAX C 40/180 F	≤ 0,23	250	DN40	PN6/10	680	1x230
979524525	NMTD MAX C 50/40 F	≤ 0,23	280	DN50	PN6/10	160	1x230
979524550	NMTD MAX C 50/80 F	≤ 0,22	280	DN50	PN6/10	370	1x230
979524029	NMTD MAX C 50/120 F	≤ 0,21	280	DN50	PN6/10	560	1x230
979524771	NMTD MAX C 65/40 F	≤ 0,23	340	DN65	PN6/10	230	1x230
979524772	NMTD MAX C 65/80 F	≤ 0,22	340	DN65	PN6/10	560	1x230
979524789	NMTD MAX C 80/40 F PN6	≤ 0,22	360	DN65	PN6	390	1x230
979524795	NMTD MAX C 80/40 F PN10	≤ 0,22	360	DN65	PN10	390	1x230

## NMT SAN MAX - bronze hydraulic pumps

Code	Type	EEI	Fitting length L [mm]	Pipe connection	PN	Pmax [W]	Voltage [V] 50Hz
979524892	NMT SAN MAX 40/40 F	≤ 0,21	250	DN40	PN6/10	110	1x230
979524556	NMT SAN MAX 40/80 F	≤ 0,21	250	DN40	PN6/10	270	1x230
979524557	NMT SAN MAX 40/120 F	≤ 0,21	250	DN40	PN6/10	480	1x230
979524891	NMT SAN MAX 40/180 F	≤ 0,23	250	DN40	PN6/10	680	1x230
979524560	NMT SAN MAX 50/80 F	≤ 0,22	280	DN50	PN6/10	370	1x230
979524561	NMT SAN MAX 50/120 F	≤ 0,21	280	DN50	PN6/10	560	1x230

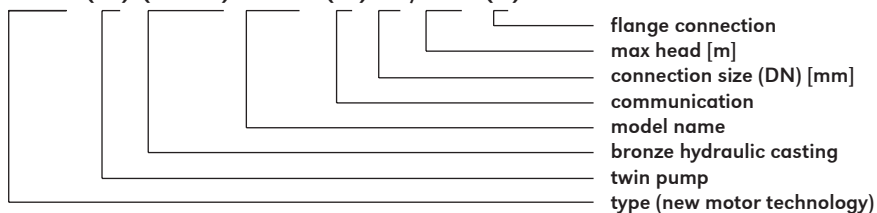
## NMT SAN MAX C - bronze hydraulic pumps with communication module

Code	Type	EEI	Fitting length L [mm]	Pipe connection	PN	Pmax [W]	Voltage [V] 50Hz
979524894	NMT SAN MAX C 40/40 F	≤ 0,21	250	DN40	PN6/10	110	1x230
979524558	NMT SAN MAX C 40/80 F	≤ 0,21	250	DN40	PN6/10	270	1x230
979524559	NMT SAN MAX C 40/120 F	≤ 0,21	250	DN40	PN6/10	480	1x230
979524893	NMT SAN MAX C 40/180 F	≤ 0,23	250	DN40	PN6/10	680	1x230
979524562	NMT SAN MAX C 50/80 F	≤ 0,22	280	DN50	PN6/10	370	1x230
979524563	NMT SAN MAX C 50/120 F	≤ 0,21	280	DN50	PN6/10	560	1x230

## NMT LAN



NMT (D) (SAN) LAN (C) xx/xxx (F)



### Electronically controlled wet running circulating pump

For all heating systems, air conditioning, closed cooling circuits and industrial systems, used in accordance with VDI 2035 and ErP.

### High efficient wet running pump with auto adapt function

- ECM permanent magnet technology with high energy efficiency;  $EEL \leq 0,23$
- LED display for control
- Integrated web server for controlling pumps
- built-in electric and thermal protection
- easy handling and installation, low noise operation and automatic venting
- robust and compact construction for long life

#### Automatic operation

- Immediate adaptation to the system

#### Manual adjustment

- Proportional pressure, constant pressure, constant speed, night mode

### Communication

NMT LAN - Ethernet, 2 digital inputs, 1 relay output

NMT LAN C - Ethernet, Modbus RTU, 3 analog inputs/outputs (0-10V), 1 relay output

### Minimum inlet pressure

0.05 bar < 50°C (fluid temperature)

0.8 bar < 80°C (fluid temperature)

1,4 bar < 110 (fluid temperature)

#### Material

Hydraulic casing	cast iron/bronze
Impeller	stainless steel
Shaft	stainless steel
Bearings	grafit
Rotor can	stainless steel

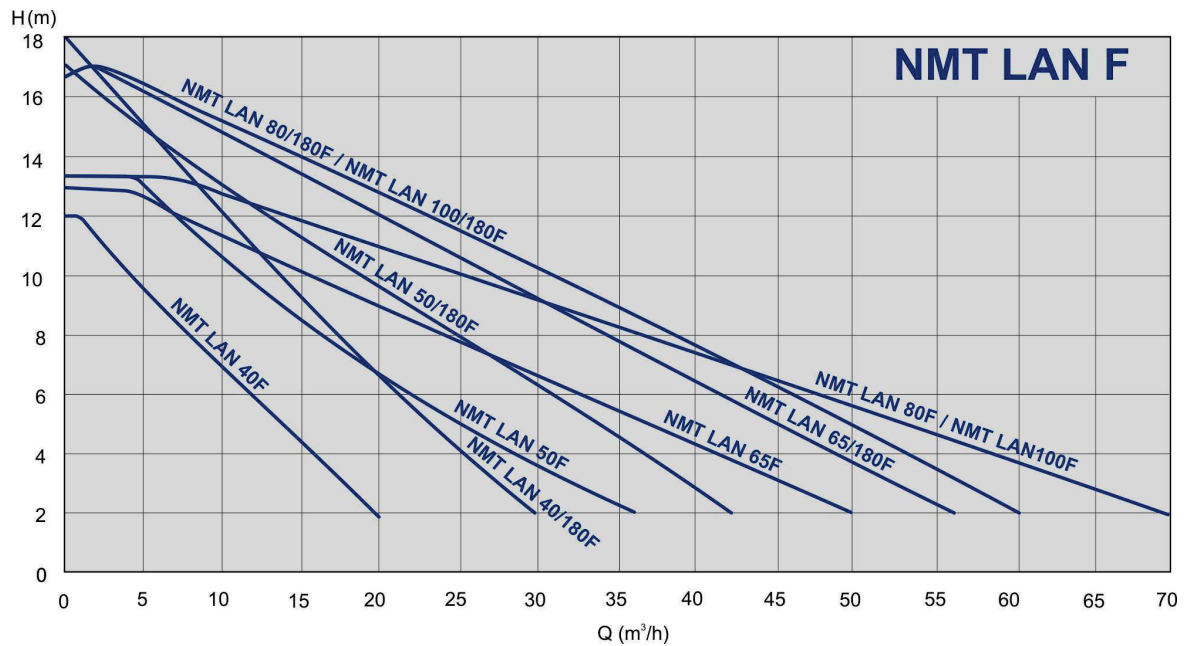
#### Technical specification

Q	25 - 78 m³/h
H	12 - 18 m
p	PN 6/10 bar
DN	40/50/65/80/100
Installation	flange
Insulation class	H
Degree of protection	IP 44
Voltage	1 ~ 230V, 50 Hz

### Permissible mediums

Water, mixed with glycol, parameters must be checked in the mixture of water with over 20% of glycol. Pure, non-explosive liquid media free of mineral oils and solid particles. Medium temperature from -10°C to +110°C, ambient temperature with max. surroundings temperature 40°C.

## Performance range



## NMT LAN xx F - flanged pumps

Code	Type	EEl	Fitting length L [mm]	Pipe connection	PN	Pmax [W]	Voltage [V] 50Hz
979523651	NMT LAN 40/180 F	≤ 0,23	250	DN40	PN6/10	800	1x230
979523652	NMT LAN 50/180 F	≤ 0,23	280	DN50	PN6/10	1100	1x230
979523653	NMT LAN 65/180 F	≤ 0,23	340	DN65	PN6/10	1500	1x230
979523462	NMT LAN 65 F	≤ 0,23	340	DN65	PN6/10	1100	1x230
979523654	NMT LAN 80/180 F PN6	≤ 0,23	360	DN80	PN6	1600	1x230
979523463	NMT LAN 80 F PN6	≤ 0,23	360	DN80	PN6	1600	1x230
979523655	NMT LAN 80/180 F PN10	≤ 0,23	360	DN80	PN10	1600	1x230
979523464	NMT LAN 80 F PN10	≤ 0,23	360	DN80	PN10	1600	1x230
979523656	NMT LAN 100/180 F PN6	≤ 0,23	360	DN100	PN6	1600	1x230
979523465	NMT LAN 100 F PN6	≤ 0,23	360	DN100	PN6	1600	1x230
979523657	NMT LAN 100/180 F PN10	≤ 0,23	360	DN100	PN10	1600	1x230
979523466	NMT LAN 100 F PN10	≤ 0,23	360	DN100	PN10	1600	1x230

## NMT LAN C xx F - flanged pumps with communication module

Code	Type	EEI	Fitting length L [mm]	Pipe connection	PN	Pmax [W]	Voltage [V] 50Hz
979523714	NMT LAN C 40/180 F	≤ 0,23	250	DN40	PN6/10	800	1x230
979523715	NMT LAN C 50/180 F	≤ 0,23	280	DN50	PN6/10	1000	1x230
979523716	NMT LAN C 65/180 F	≤ 0,23	340	DN65	PN6/10	1500	1x230
979523614	NMT LAN C 65 F	≤ 0,23	340	DN65	PN6/10	1100	1x230
979523717	NMT LAN C 80/180 F PN 6	≤ 0,23	360	DN80	PN6	1600	1x230
979523615	NMT LAN C 80 F PN 6	≤ 0,23	360	DN80	PN6	1600	1x230
979523718	NMT LAN C 80/180 F PN 10	≤ 0,23	360	DN80	PN10	1600	1x230
979523616	NMT LAN C 80 F PN 10	≤ 0,23	360	DN80	PN10	1600	1x230
979523719	NMT LAN C 100/180 F PN 6	≤ 0,23	360	DN100	PN6	1600	1x230
979523617	NMT LAN C 100 F PN 6	≤ 0,23	360	DN100	PN6	1600	1x230
979523720	NMT LAN C 100/180 F PN 10	≤ 0,23	360	DN100	PN10	1600	1x230
979523618	NMT LAN C 100 F PN 10	≤ 0,23	360	DN100	PN10	1600	1x230

## NMTD LAN xx F - twin pumps

Code	Type	EEI	Fitting length L [mm]	Pipe connection	PN	Pmax [W]	Voltage [V] 50Hz
979523658	NMTD LAN 40/180 F	≤ 0,23	250	DN40	PN6/10	800	1x230
979523659	NMTD LAN 50/180 F	≤ 0,23	280	DN50	PN6/10	1100	1x230
979523660	NMTD LAN 65/180 F	≤ 0,23	340	DN65	PN6/10	1500	1x230
979523469	NMTD LAN 65 F	≤ 0,23	340	DN65	PN6/10	1100	1x230
979523661	NMTD LAN 80/180 F PN 6	≤ 0,23	360	DN80	PN6	1600	1x230
979523470	NMTD LAN 80 F PN 6	≤ 0,23	360	DN80	PN6	1600	1x230
979523662	NMTD LAN 80/180 F PN 10	≤ 0,23	360	DN80	PN10	1600	1x230
979523471	NMTD LAN 80 F PN 10	≤ 0,23	360	DN80	PN10	1600	1x230

## NMTD LAN C xx F - twin pumps with communication module

Code	Type	EEI	Fitting length L [mm]	Pipe connection	PN	Pmax [W]	Voltage [V] 50Hz
979523721	NMTD LAN C 40/180 F	≤ 0,23	250	DN40	PN6/10	2x800	1x230
979523722	NMTD LAN C 50/180 F	≤ 0,23	280	DN50	PN6/10	2x1000	1x230
979523723	NMTD LAN C 65/180 F	≤ 0,23	340	DN65	PN6/10	2x1500	1x230
979523627	NMTD LAN C 65 F	≤ 0,23	340	DN65	PN6/10	2x1100	1x230
979523724	NMTD LAN C 80/180 F PN 6	≤ 0,23	360	DN80	PN6	2x1600	1x230
979523628	NMTD LAN C 80 F PN 6	≤ 0,23	360	DN80	PN6	2x1600	1x230
979523725	NMTD LAN C 80/180 F PN 10	≤ 0,23	360	DN80	PN10	2x1600	1x230
979523629	NMTD LAN C 80 F PN 10	≤ 0,23	360	DN80	PN10	2x1600	1x230



**NMT SAN LAN xx F - bronze hydraulic pumps**

Code	Type	EEI	Fitting length L [mm]	Pipe connection	PN	Pmax [W]	Voltage [V] 50Hz
979523606	NMT SAN LAN 40 F	≤ 0,23	250	DN40	PN6/10	500	1x230
979523607	NMT SAN LAN 50 F	≤ 0,23	280	DN50	PN6/10	800	1x230
979523608	NMT SAN LAN 65 F	≤ 0,23	340	DN65	PN6/10	1100	1x230

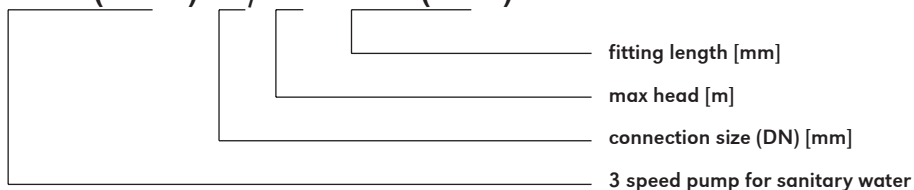
**NMT SAN LAN C xx F - bronze hydraulic pumps with communication module**

Code	Type	EEI	Fitting length L [mm]	Pipe connection	PN	Pmax [W]	Voltage [V] 50Hz
979523609	NMT SAN LAN C 40 F	≤ 0,23	250	DN40	PN6/10	500	1x230
979523610	NMT SAN LAN C 50 F	≤ 0,23	280	DN50	PN6/10	800	1x230
979523611	NMT SAN LAN C 65 F	≤ 0,23	340	DN65	PN6/10	1100	1x230

## SAN (small pumps) - pumps for sanitary water



### SAN (ECO) xx/xx - 130 (180)



#### SAN ECO 15/15

High efficient, manually adjustable circulating pumps for hot water.  
 The spherical motor - without shaft, bronzed body.

#### 4 versions of pumps:

B	basic version
BU	with timer
BTU	with thermostat and timer
BT	with thermostat (range 20 - 70°C)

#### SAN xx / xx - 130 (180)

3-speed pump for circulating water  
 Bronze body, robust construction, maintenance-free operation

#### Minimum inlet pressure

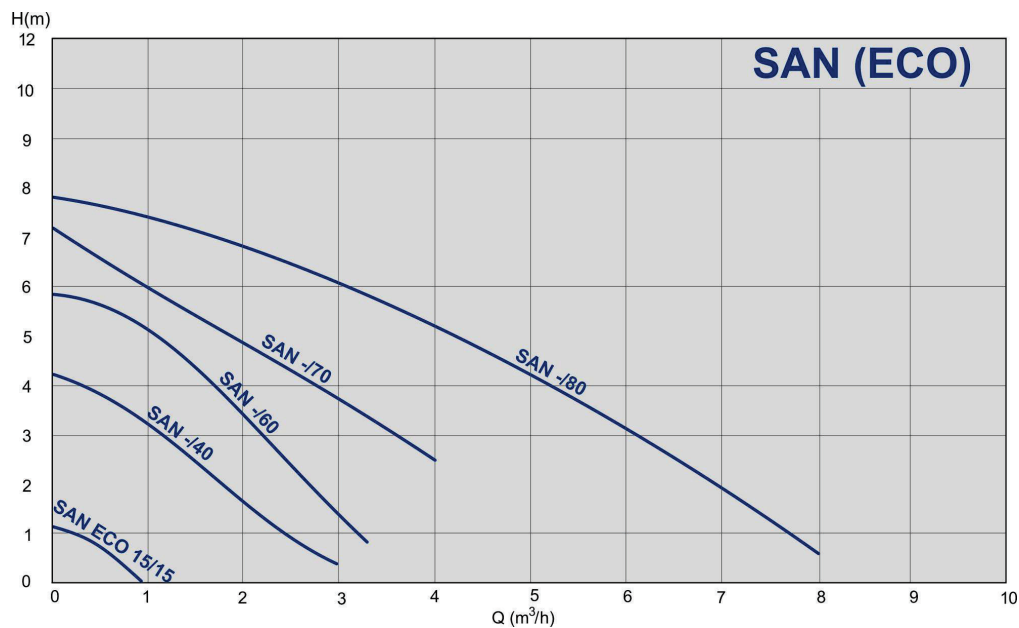
0.05 bar < 75°C (fluid temperature)  
 0.28 bar < 90°C (fluid temperature)

Material	
Hydraulic casing	bronze
Impeller	polyamid, PES
Shaft	stainless steel/ceramics
Bearings	grazit/ceramics
Rotor can	stainless steel

#### Technical specification

Q	0,2 - 8,4 m³/h
H	1,1 - 8 m
p	PN 6/10 bar
DN	15/20/25/32
Installation	threaded
Insulation class	H
Degree of protection	IP 44
Voltage	1 ~ 230V, 50 Hz

## Performance range



## SAN - 3-speed pumps for sanitary water (bronze hydraulic)

Code	Type	Fitting length L [mm]	Pipe connection	Pmax [W]	Voltage [V] 50Hz
979521765	SAN 15/40-130	130	Rp ½	50	1x230
979521766	SAN 20/40-130	130	Rp ¾	50	1x230
979521767	SAN 25/40-130	130	Rp 1	50	1x230
979521768	SAN 15/60-130	130	Rp ½	90	1x230
979521769	SAN 20/60-130	130	Rp ¾	90	1x230
979521770	SAN 25/60-130	130	Rp 1	90	1x230
979522018	SAN 20/70-130	130	Rp ¾	140	1x230
979522006	SAN 25/70-130	130	Rp 1	140	1x230
979523510	SAN 32/80-180	180	Rp 1¼	210	1x230

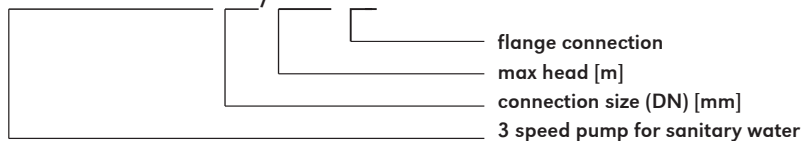
## SAN ECO - circulating pumps for sanitary water

Code	Type	Fitting length L [mm]	Pipe connection	Pmax [W]	Voltage [V] 50Hz
979523230	SAN ECO 15/15 B	65	Rp ½	2 - 8	1x230
979523231	SAN ECO 15/15 BU	65	Rp ½	2 - 8	1x230
979523232	SAN ECO 15/15 BTU	65	Rp ½	2 - 8	1x230
979523233	SAN ECO 15/15 BT	65	Rp ½	2 - 8	1x230

# SANbasic II F – Flange pump for sanitary water

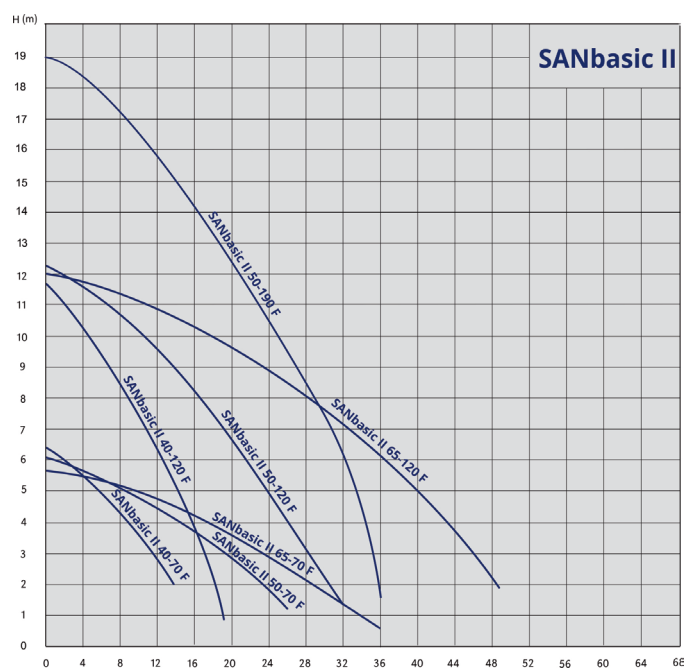


## SANbasic II xx/xxx F



3-speed pumps for sanitary water  
 Flanged, bronze hydraulic, standard voltage 400V (230V optional)

## Performance range



## SANbasic II - 3-speed flange pumps

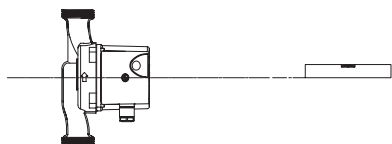
Code	Type	Fitting length L [mm]	Pipe connection	PN	Pmax [W]	Voltage [V] 50Hz
979524616	SANbasic II 40-120 F	250	DN40	PN6/10	578	3x400
979524617	SANbasic II 40-70 F	250	DN40	PN6/10	295	3x400
979524622	SANbasic II 50-190 F	280	DN50	PN6/10	1596	3x400
979524618	SANbasic II 50-120 F	280	DN50	PN6/10	1020	3x400
979524619	SANbasic II 50-70 F	280	DN50	PN6/10	470	3x400
979524620	SANbasic II 65-120 F	340	DN65	PN6/10	1560	3x400
979524621	SANbasic II 65-70 F	340	DN65	PN6/10	600	3x400



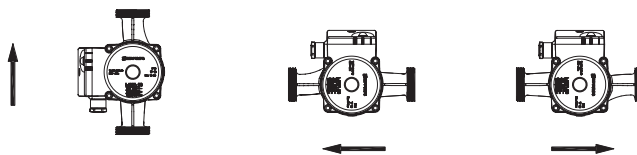
# Installation

After installing the pump, the motor shaft have to remain in horizontal position.

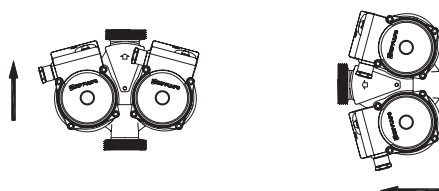
NMT(D) (SAN) PLUS (ER/PWM)



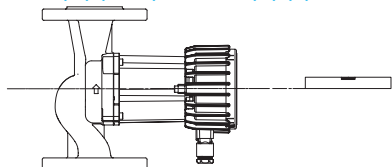
NMT



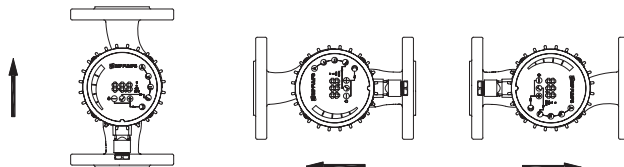
NMTD



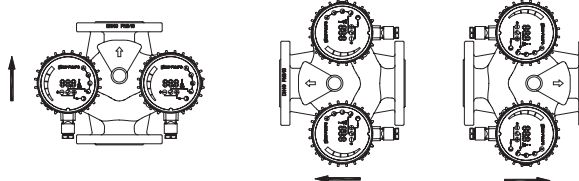
NMT(D) (SAN) SMART (C) (F)



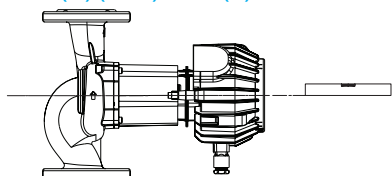
NMT



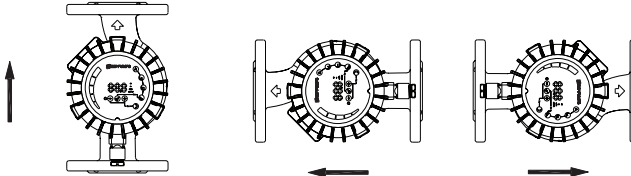
NMTD



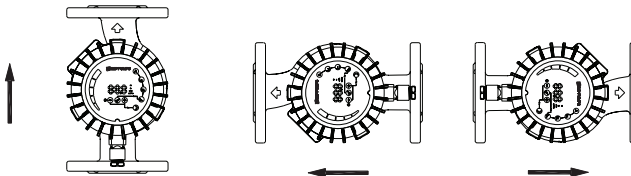
NMT(D) (SAN) MAX (C) F



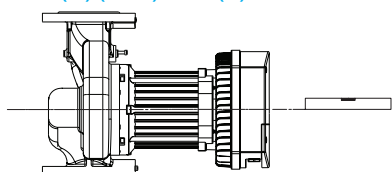
NMT



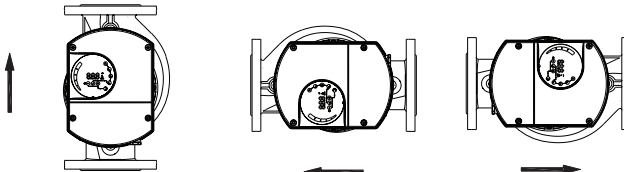
NMTD



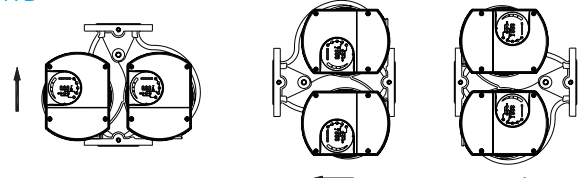
NMT(D) (SAN) LAN (C) F



NMT



NMTD



[illegible]





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