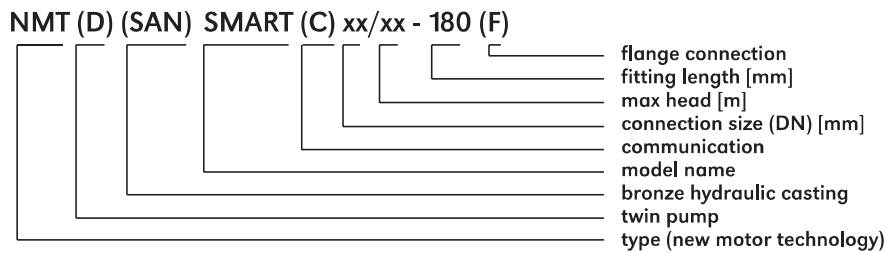


NMT SMART



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

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 <math><75\text{ }^\circ\text{C}</math> (fluid temperature)

0.28 bar <math><90\text{ }^\circ\text{C}</math> (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 m ³ /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 |

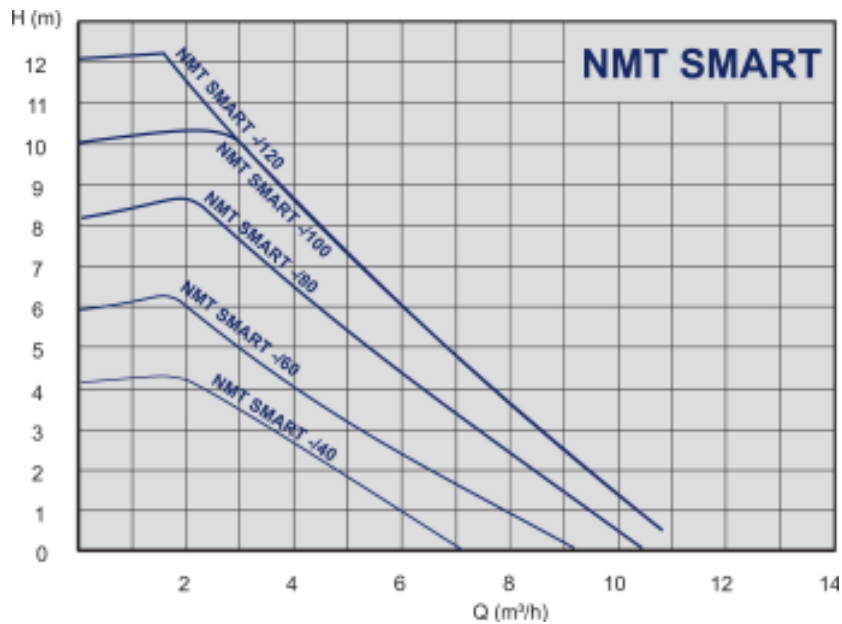
Permissible mediums

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 1¼ | 60 | 1x230 |
| 979523481 | NMT SMART 32/60-180 | ≤ 0,21 | 180 | Rp 1¼ | 90 | 1x230 |
| 979523485 | NMT SMART 32/80-180 | ≤ 0,21 | 180 | Rp 1¼ | 140 | 1x230 |
| 979523216 | NMT SMART 32/100-180 | ≤ 0,21 | 180 | Rp 1¼ | 180 | 1x230 |
| 979523771 | NMT SMART 32/120-180 | ≤ 0,21 | 180 | Rp 1¼ | 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 1¼ | 60 | 1x230 |
| 979523492 | NMT SMART C 32/60-180 | ≤ 0,21 | 180 | Rp 1¼ | 90 | 1x230 |
| 979523496 | NMT SMART C 32/80-180 | ≤ 0,21 | 180 | Rp 1¼ | 140 | 1x230 |
| 979523367 | NMT SMART C 32/100-180 | ≤ 0,21 | 180 | Rp 1¼ | 180 | 1x230 |
| 979524539 | NMT SMART C 32/120-180 | ≤ 0,21 | 180 | Rp 1¼ | 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 | EEl | 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 | EEl | 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 | EEl | 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 |