AquaTech Pressmain

ELECTRONICALLY CONTROLLED HIGH-EFFICIENCY PUMPS

FOR HEATING, AIR CONDITIONING, COOLING AND DOMESTIC WATER

NMT NEW MOTOR TECHNOLOGY

ErP Ready NewMotorTechnolgy

CE

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HIGH-EFFICIENCY PUMPS FOR HOT WATER

50 ECO SAN

ErP REGULATION

WE'RE READY TO START
WITH HIGH-EFFICIENCY PUMPS AND AFFORDABLE PRICES

ErP Regulation (Energy related Products) translates as energy-relevant products. The objective of this Regulation, 2009 125 EC is to reduce energy consumption in accordance with the environmental requirements and it is 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 in practice in the following three steps:

- **The first step from 01/01/2013 for the energy index up to (max.) 0.27**
- **The second step from 01/08 in 2015 for the energy index up to (max.) 0.23**
- **The third step from 01/01/2020 for the energy index up to (max.) 0.23 – including the pumps, which are being replaced in HVAC systems**

The benchmark for most efficient circulators is EEI ≤ 0,20.

The IMP PUMPS meet environmental requirements in accordance to ERP Regulation with high-efficiency pumps with affordable prices.

EXPLANATION OF IMP PUMPS NAME TAG

NMT SMART C 25 / 60 -180

NMT	new motor technology
SMART	series
C	communication module
25	nominal size
60	maximum pressure of 60
180	installation length

ABBREVIATIONS & THEIR MEANINGS

1 ~	Single-phase electric current
3 ~	3 phase electric current
DIN	Deutsches Institut für Normung
DN	nominal size of the connector
Δp	pressure difference
Δp-prop	proportional pressure difference
Δp-c	constant pressure difference
Δp-v	variable differential pressure
ECM-technology	BLDC synchronic motor with permanent magnets
EEI	energy class
ErP	ERP Regulation Energy related Products translated as energy corresponding products. The objective of this Regulation, 2009 125 EC is to reduce energy consumption. According to the environmental requirements of EuP 2005 32 EC
H	Pressure in meters
IP	Motor driven protection devices against environmental influences
ISO	EU standards
KTL	Cataphoresis protection with high corrosion resistance
Modbus	The standard communication protocol
NMT	New motor technology
NMT C	New motor technology electronically, controlled circulation pump with communication module
NMTD	New motor technology electronically, controlled circulation pump in a double execution
NMT SAN	New motor technology High-efficiency circulating pump for domestic hot water
NMT ER	New motor technology electronically controlled circulation pump with analog signal 0 - 10 V
PN	Nominal pressure in bars
Q	Flow rate in cubic meters.
VDI-Guidelines	The flow in cubic meters per hour

ABOUT US

AquaTech Pressmain Limited is an amalgamation of AquaTech, Pressmain and Warmac Limited, three existing market leaders in the supply of fluid pumping equipment to the Building Services, Process and Water Industries. Our product portfolio includes: pressure boosted hot and cold water supplies, fire fighting applications, sealed heating and chilled water systems, water storage tank level and temperature monitoring. We have a wide range of products ranging from pressure switch controlled products to those based around a versatile range of microprocessor control systems.

AquaTech Limited was established in 1982 by a group of highly qualified engineers with many years' experience in the pumping industry, AquaTech Limited is recognised by other manufacturers as the most advanced and innovative company in its field, eventually copied (but never equalled) by its competitors. It is the only UK producer which designs, programmes and manufactures its own range of microprocessor controllers in house, offering unrivalled versatility to its customers.

Pressmain Pressurisation Co. Limited was established in 1974 offering bespoke designed pressure booster sets and pressurisation units and now has thousands of satisfied customers throughout the United Kingdom and all over the world.

Warmac Limited originally started life as a division of Saunders and Taylor Limited and brings over 70 years experience in the industry, specialising in large high temperature sealed heating system pressurisation units.

Now based in 2 purpose built factories in Essex and Manchester, AquaTech Pressmain has a national sales and service network covering the whole of the United Kingdom and beyond.

As part of Aquatronic Group Management plc, AquaTech Pressmain has a secure and diverse base from which it can draw on much expertise and experience to fulfil its customers' needs. We offer a complete, quality assured solution to your requirements, quickly, efficiently and at a competitive price!

ECO HIGH-EFFICIENCY REGULATED THREADED PUMPS NMT

NMT -/40

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable pressure control and constant speed. For use in water system according to requirements of VDI 2035.

APPLICATIONS

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems. The implementation bronze casing SAN for the usage in drinking water circulation systems.

OPERATION

Δp-Proportional pressure control

After selecting level pump recognizes the lowest resistance of the system and automatically adjusts its own strain.

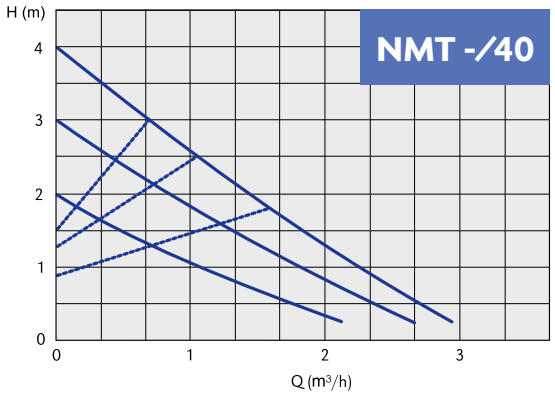
Δp-Constant speed

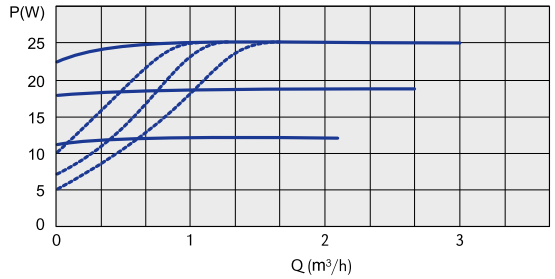
After selection pump works in three different speeds

PRODUCT DESCRIPTION

- High efficiency ECM technology
- Energy savings
- Proportional pressure control
- Constant speed
- Easy handling and installation
- Robust and compact construction for long life
- Automatic venting
- Low noise operation
- Single body, which allows a variety of mounting positions
- Possibility of housing with cataphoretic
- Twin pump option
- The possibility of an analog input signal 0-10 V

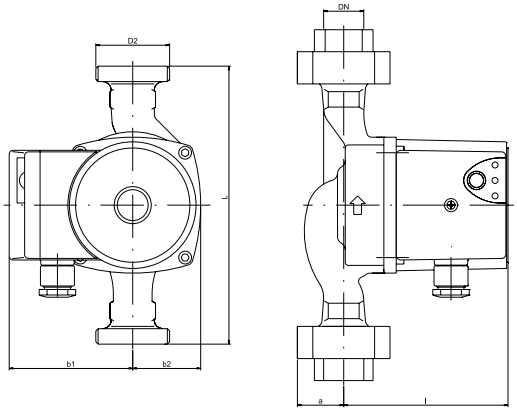
Pump component	Material
Housing	Cast iron
Impeller	Polyamid
Shaft	Ceramics
Rotor can	Ceramics
Ventricular wall	Stainless steel
Rotor can	Stainless steel





NMT	Pipe connection	DN	Fitting length	N. Pressure	Weight
NMT 15/40-130	Rp ½	15	130 mm	PN 10 bar	1,9 kg
NMT 20/40-130	Rp ¾	20	130 mm	PN 10 bar	2,0 kg
NMT 25/40-130	Rp 1	25	130 mm	PN 10 bar	2,1 kg
NMT 20/40-180	Rp ¾	20	180 mm	PN 10 bar	2,3 kg
NMT 25/40-180	Rp 1	25	180 mm	PN 10 bar	2,4 kg
NMT 32/40-180	Rp 1 ¼	32	180 mm	PN 10 bar	2,5 kg
NMT SAN 20/40-130	Rp ¾	20	130 mm	PN 10 bar	2,1 kg
NMT SAN 25/40-130	Rp 1	25	130 mm	PN 10 bar	2,2 kg
NMT ER 15/40-130	Rp ½	15	130 mm	PN 10 bar	1,9 kg
NMT ER 20/40-130	Rp ¾	20	130 mm	PN 10 bar	2,0 kg
NMT ER 25/40-130	Rp 1	25	130 mm	PN 10 bar	2,1 kg
NMT ER 20/40-180	Rp ¾	20	180 mm	PN 10 bar	2,3 kg
NMT ER 25/40-180	Rp 1	25	180 mm	PN 10 bar	2,4 kg
NMT ER 32/40-180	Rp 1 ¼	32	180 mm	PN 10 bar	2,5 kg

Dimensions	L	DN	D2	b1	b2	l	a
NMT 40	130/180	15/20/25/32	1"/5/4"/6/4"/2"	80	48	108	27/29/32



TECHNICAL DATA

Flow Q up to 2,6 m³/h

Pressure H up to 4 m

Power 5 - 25 Watt

Nominal pressure 10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from +5°C to +95°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,05 bar ‹ 75°C Temperature of medium

0,28 bar ‹ 90°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,20
- Built-in motor protection
- Control Δp or constant speed
- Degree of protection: IP 44
- Insulation class F
- Optional analog input signal 0 - 10 V

ECO HIGH-EFFICIENCY REGULATED THREADED PUMPS NMT

NMT -/60

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable pressure control and constant speed. For use in water system according to requirements of VDI 2035.

APPLICATIONS

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems. The implementation bronze casing SAN for the usage in drinking water circulation systems.

OPERATION

Δp-Proportional pressure control

After selecting level pump recognizes the lowest resistance of the system and automatically adjusts its own strain.

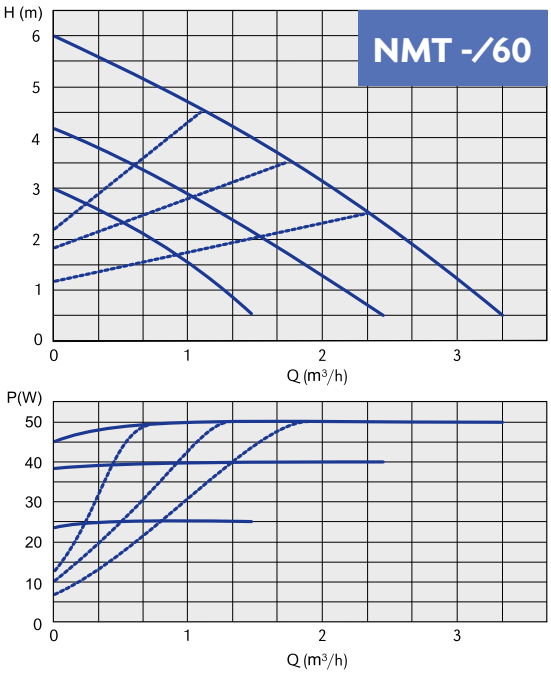
Δp-Constant speed

After selection pump works in three different speeds

PRODUCT DESCRIPTION

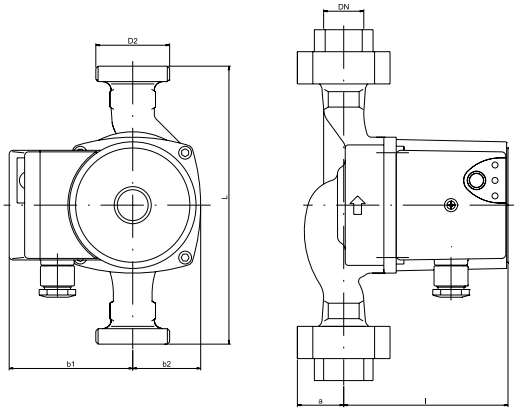
- High efficiency ECM technology
- Energy savings
- Proportional pressure control
- Constant speed
- Easy handling and installation
- Robust and compact construction for long life
- Automatic venting
- Low noise operation
- Single body, which allows a variety of mounting positions
- Possibility of housing with cataphoretic
- Twin pump option
- The possibility of an analog input signal 0-10 V

Pump component	Material
Housing	Cast iron
Impeller	Polyamid
Shaft	Ceramics
Bearings	Ceramics
Ventricular wall	Stainless steel
Rotor can	Stainless steel



NMT	Pipe connection	DN	Fitting length	N. Pressure	Weight
NMT 15/60-130	Rp ½	15	130 mm	PN 10 bar	1,9 kg
NMT 20/60-130	Rp ¾	20	130 mm	PN 10 bar	2,0 kg
NMT 25/60-130	Rp 1	25	130 mm	PN 10 bar	2,1 kg
NMT 20/60-180	Rp ¾	20	180 mm	PN 10 bar	2,3 kg
NMT 25/60-180	Rp 1	25	180 mm	PN 10 bar	2,4 kg
NMT 32/60-180	Rp 1 ¼	32	180 mm	PN 10 bar	2,5 kg
NMT SAN 20/60-130	Rp ¾	20	130 mm	PN 10 bar	2,1 kg
NMT SAN 25/60-130	Rp 1	25	130 mm	PN 10 bar	2,2 kg
NMT ER 15/60-130	Rp ½	15	130 mm	PN 10 bar	1,9 kg
NMT ER 20/60-130	Rp ¾	20	130 mm	PN 10 bar	2,0 kg
NMT ER 25/60-130	Rp 1	25	130 mm	PN 10 bar	2,1 kg
NMT ER 20/60-180	Rp ¾	20	180 mm	PN 10 bar	2,3 kg
NMT ER 25/60-180	Rp 1	25	180 mm	PN 10 bar	2,4 kg
NMT ER 32/60-180	Rp 1 ¼	32	180 mm	PN 10 bar	2,5 kg

Dimensions	L	DN	D2	b1	b2	l	a
NMT 60	130/180	15/20/25/32	1"/5/4"/6/4"/2"	80	48	108	27/29/32



TECHNICAL DATA

Flow Q up to 3,7 m³/h

Pressure H up to 6 m

Power 7 - 50 Watt

Nominal pressure 10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from +5°C to +95°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,05 bar ‹ 75°C Temperature of medium

0,28 bar ‹ 90°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,22
- Built-in motor protection
- Control Δp or constant speed
- Degree of protection: IP 44
- Insulation class F
- Optional analog input signal 0 - 10 V

ECO HIGH-EFFICIENCY REGULATED THREADED PUMPS NMT

NMT -/80

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable pressure control and constant speed. For use in water system according to requirements of VDI 2035.

APPLICATIONS

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems. The implementation bronze casing SAN for the usage in drinking water circulation systems.

OPERATION

Δp-Proportional pressure control

After selecting level pump recognizes the lowest resistance of the system and automatically adjusts its own strain.

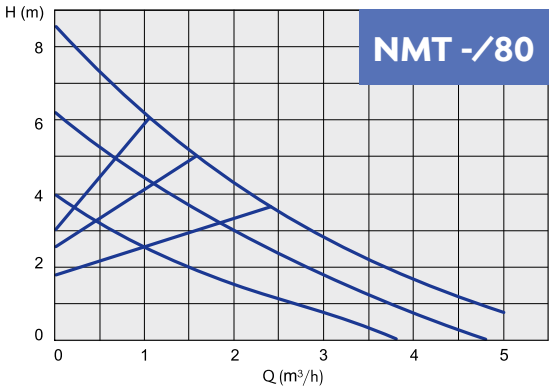
Δp-Constant speed

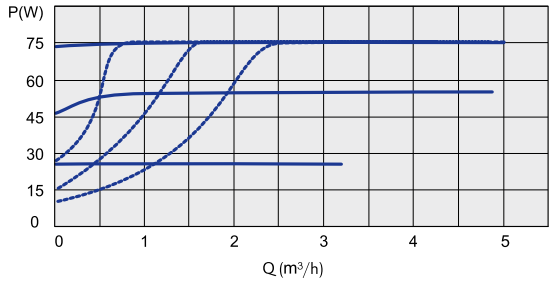
After selection pump works in three different speeds

PRODUCT DESCRIPTION

- High efficiency ECM technology
- Energy savings
- Proportional pressure control
- Constant speed
- Easy handling and installation
- Robust and compact construction for long life
- Automatic venting
- Low noise operation
- Single body, which allows a variety of mounting positions
- Possibility of housing with cataphoretic
- Twin pump option
- The possibility of an analog input signal 0-10 V

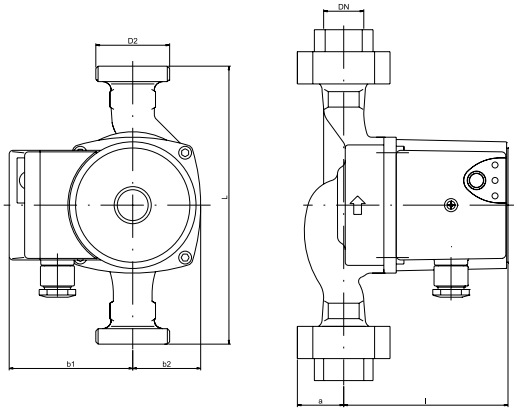
Pump component	Material
Housing	Cast iron
Impeller	Polyamid
Shaft	Ceramics
Rotor can	Ceramics
Ventricular wall	Stainless steel
Rotor can	Stainless steel





NMT	Pipe connection	DN	Fitting length	N. Pressure	Weight
NMT 15/80-130	Rp ½	15	130 mm	PN 10 bar	1,9 kg
NMT 20/80-130	Rp ¾	20	130 mm	PN 10 bar	2,0 kg
NMT 25/80-130	Rp 1	25	130 mm	PN 10 bar	2,1 kg
NMT 20/80-180	Rp ¾	20	180 mm	PN 10 bar	2,3 kg
NMT 25/80-180	Rp 1	25	180 mm	PN 10 bar	2,4 kg
NMT 32/80-180	Rp 1 ¼	32	180 mm	PN 10 bar	2,5 kg
NMT SAN 20/80-130	Rp ¾	20	130 mm	PN 10 bar	2,1 kg
NMT SAN 25/80-130	Rp 1	25	130 mm	PN 10 bar	2,2 kg
NMT ER 15/80-130	Rp ½	15	130 mm	PN 10 bar	1,9 kg
NMT ER 20/80-130	Rp ¾	20	130 mm	PN 10 bar	2,0 kg
NMT ER 25/80-130	Rp 1	25	130 mm	PN 10 bar	2,1 kg
NMT ER 20/80-180	Rp ¾	20	180 mm	PN 10 bar	2,3 kg
NMT ER 25/80-180	Rp 1	25	180 mm	PN 10 bar	2,4 kg
NMT ER 32/80-180	Rp 1 ¼	32	180 mm	PN 10 bar	2,5 kg

Dimensions	L	DN	D2	b1	b2	l	a
NMT 80	130/180	15/20/25/32	1"/5/4"/6/4/2"	80	48	108	27/29/32



TECHNICAL DATA

Flow Q up to 4,5 m³/h

Pressure H up to 8 m

Power 7 - 75 Watt

Nominal pressure 10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from +5°C to +95°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,05 bar ‹ 75°C Temperature of medium

0,28 bar ‹ 90°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,24
- Built-in motor protection
- Control Δp or constant speed
- Degree of protection: IP 44
- Insulation class F
- Optional analog input signal 0 - 10 V

HIGH-EFFICIENCY REGULATED THREADED PUMPS SMART

NMT SMART 40

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through display. For use in water system according to requirements of VDI 2035.

APPLICATIONS

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems.

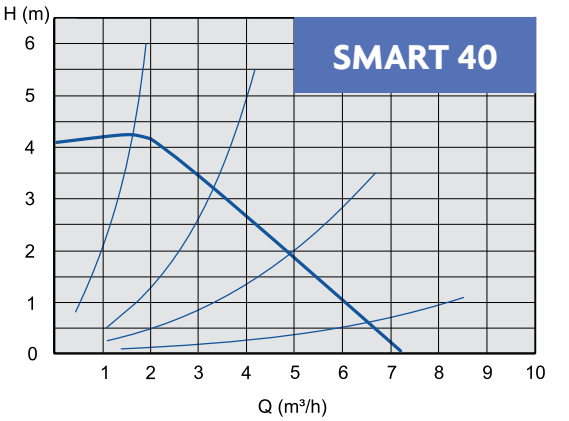
OPERATION

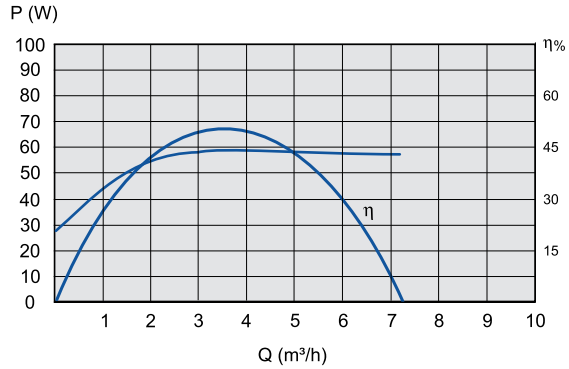
- Auto mode (default)
- Proportional pressure control
- Constant pressure control
- Constant speed
- Night mode

PRODUCT DESCRIPTION

- High efficiency ECM technology
- Energy savings
- LED Display for control
- Easy handling and installation
- Plug & Play
- Robust and compact construction for long life
- Automatic venting
- Low noise operation
- Possibility of housing with cataphoretic
- Twin pump option
- Possibility of NMTC communication module (Ethernet connection, Modbus RTU connection, Analog Control input 0 - 10 V, 3 digital inputs, 1 relay output)

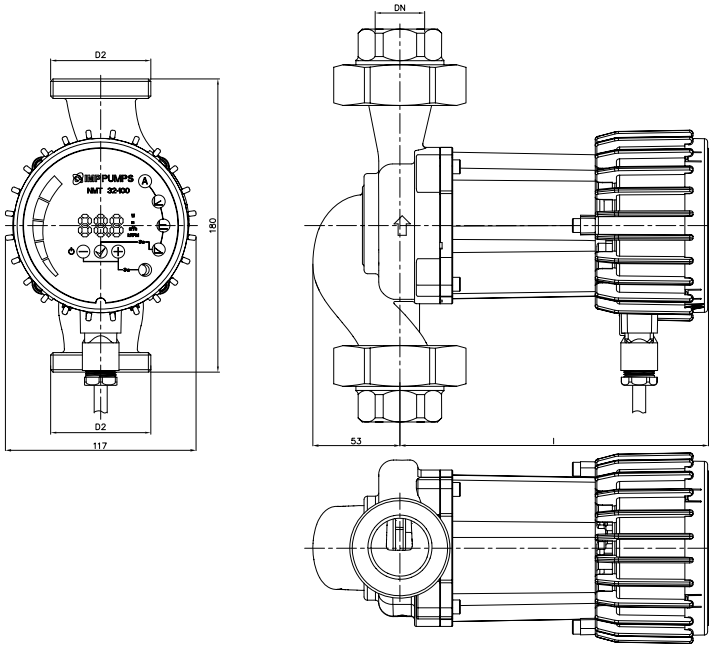
Pump component	Material
Housing	Cast iron
Impeller	PES
Shaft	Stainless steel
Bearings	Graphite
Ventricular wall	Stainless steel
Rotor can	Stainless steel





NMT	Pipe connection	DN	Fitting length	N. Pressure	Weight
SMART 25/40	Rp 1	25	180 mm	PN 10 bar	4 kg
SMART 32/40	Rp 1 ¼	32	180 mm	PN 10 bar	4,1 kg
SMART C 25/40	Rp 1	25	180 mm	PN 10 bar	4,2 kg
SMART C 32/40	Rp 1 ¼	32	180 mm	PN 10 bar	4,3 kg

Dimensions	L	DN	D2	l
SMART 25/40	180	25	6/4"	190
SMART 32/40	180	32	2"	190
SMART C 25/40	180	25	6/4"	222
SMART C 32/40	180	32	2"	222



TECHNICAL DATA

Flow Q up to 7,5 m³/h

Pressure H up to 4 m

Power 7 - 60 Watt

Nominal pressure 10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from +2°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,05 bar ‹ 75°C Temperature of medium

0,28 bar ‹ 90°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,21
- Built-in motor protection
- 3 control modes (proportional head, constant head, constant speed)
- Degree of protection: IP 44
- Insulation class F

HIGH-EFFICIENCY REGULATED THREADED PUMPS SMART

NMT SMART 60

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through display. For use in water system according to requirements of VDI 2035.

APPLICATIONS

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems.

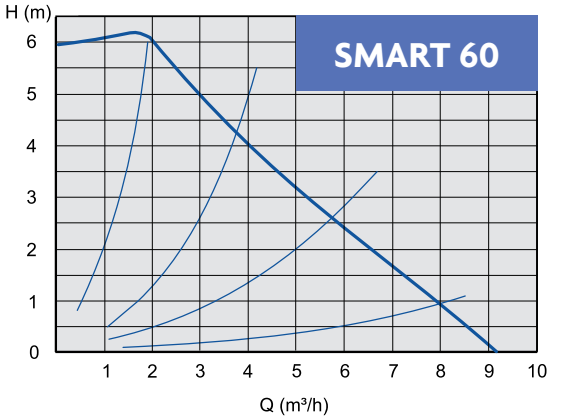
OPERATION

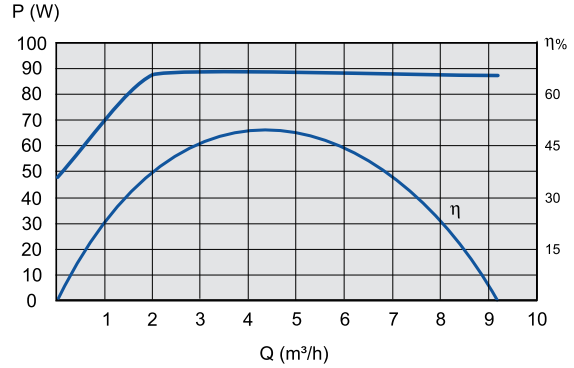
- Auto mode (default)
- Proportional pressure control
- Constant pressure control
- Constant speed
- Night mode

PRODUCT DESCRIPTION

- High efficiency ECM technology
- Energy savings
- LED Display for control
- Easy handling and installation
- Plug & Play
- Robust and compact construction for long life
- Automatic venting
- Low noise operation
- Possibility of housing with cataphoretic
- Twin pump option
- Possibility of NMTC communication module (Ethernet connection, Modbus RTU connection, Analog Control input 0 - 10 V, 3 digital inputs, 1 relay output)

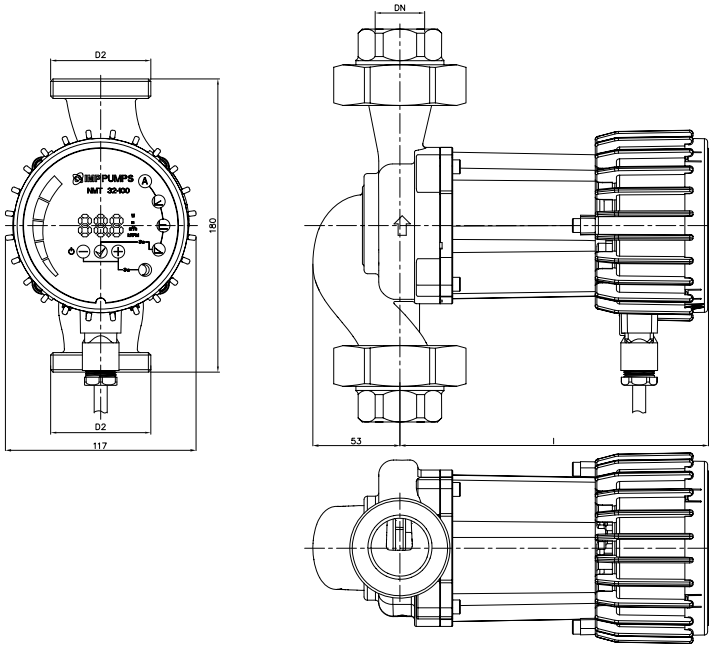
Pump component	Material
Housing	Cast iron
Impeller	PES
Shaft	Stainless steel
Bearings	Graphite
Ventricular wall	Stainless steel
Rotor can	Stainless steel





NMT	Pipe connection	DN	Fitting length	N. Pressure	Weight
SMART 25/60	Rp 1	25	180 mm	PN 10 bar	4 kg
SMART 32/60	Rp 1 ¼	32	180 mm	PN 10 bar	4,1 kg
SMART C 25/60	Rp 1	25	180 mm	PN 10 bar	4,2 kg
SMART C 32/60	Rp 1 ¼	32	180 mm	PN 10 bar	4,3 kg

Dimensions	L	DN	D2	l
SMART 25/60	180	25	6/4"	190
SMART 32/60	180	32	2"	190
SMART C 25/60	180	25	6/4"	222
SMART C 32/60	180	32	2"	222



TECHNICAL DATA

Flow Q up to 9 m³/h

Pressure H up to 6 m

Power 7 - 90 Watt

Nominal pressure 10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from +2°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,05 bar ‹ 75°C Temperature of medium

0,28 bar ‹ 90°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,21
- Built-in motor protection
- 3 control modes (proportional head, constant head, constant speed)
- Degree of protection: IP 44
- Insulation class F

HIGH-EFFICIENCY REGULATED THREADED PUMPS SMART

NMT SMART 80

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through display. For use in water system according to requirements of VDI 2035.

APPLICATIONS

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems.

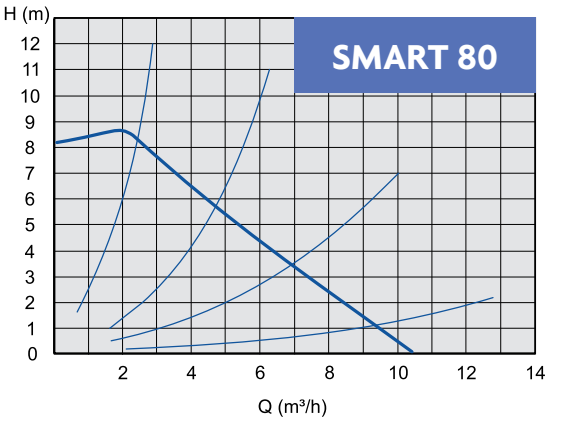
OPERATION

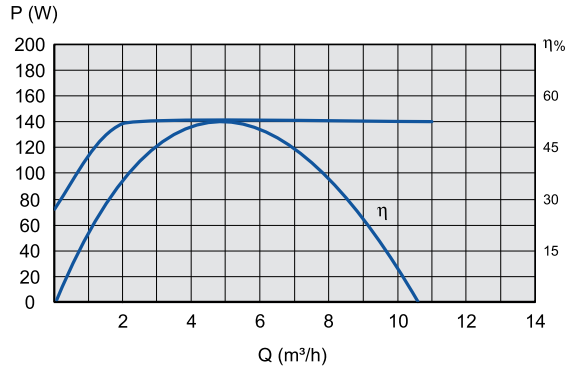
- Auto mode (default)
- Proportional pressure control
- Constant pressure control
- Constant speed
- Night mode

PRODUCT DESCRIPTION

- High efficiency ECM technology
- Energy savings
- LED Display for control
- Easy handling and installation
- Plug & Play
- Robust and compact construction for long life
- Automatic venting
- Low noise operation
- Possibility of housing with cataphoretic
- Twin pump option
- Possibility of NMTC communication module (Ethernet connection, Modbus RTU connection, Analog Control input 0 - 10 V, 3 digital inputs, 1 relay output)

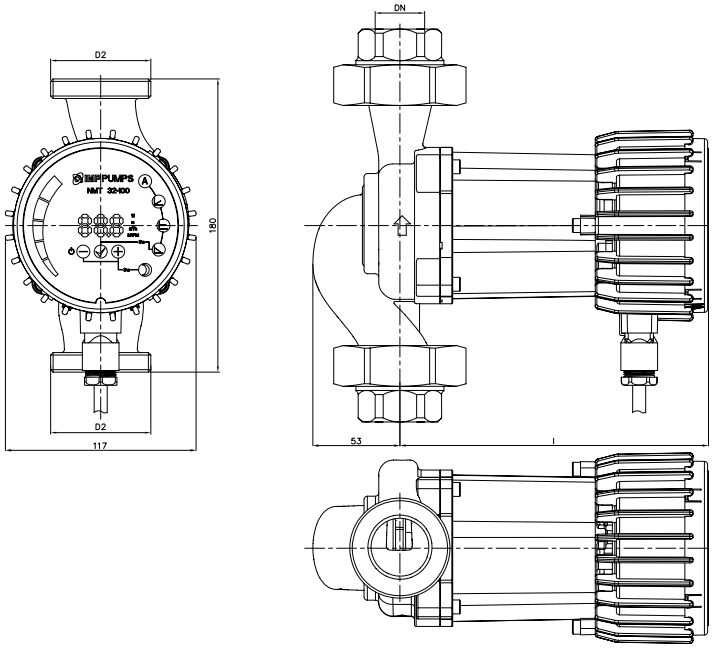
Pump component	Material
Housing	Cast iron
Impeller	PES
Shaft	Stainless steel
Bearings	Graphite
Ventricular wall	Stainless steel
Rotor can	Stainless steel





NMT	Pipe connection	DN	Fitting length	N. Pressure	Weight
SMART 25/80	Rp 1	25	180 mm	PN 10 bar	4 kg
SMART 32/80	Rp 1 ¼	32	180 mm	PN 10 bar	4,1 kg
SMART C 25/80	Rp 1	25	180 mm	PN 10 bar	4,2 kg
SMART C 32/80	Rp 1 ¼	32	180 mm	PN 10 bar	4,3 kg

Dimensions	L	DN	D2	l
SMART 25/80	180	25	6/4"	190
SMART 32/80	180	32	2"	190
SMART C 25/80	180	25	6/4"	222
SMART C 32/80	180	32	2"	222



TECHNICAL DATA

Flow Q up to 10 m³/h

Pressure H up to 8 m

Power 7 - 140 Watt

Nominal pressure 10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from +2°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,05 bar ‹ 75°C Temperature of medium

0,28 bar ‹ 90°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,21
- Built-in motor protection
- 3 control modes (proportional head, constant head, constant speed)
- Degree of protection: IP 44
- Insulation class F

HIGH-EFFICIENCY REGULATED THREADED PUMPS SMART

NMT SMART 100

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through display. For use in water system according to requirements of VDI 2035.

APPLICATIONS

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems.

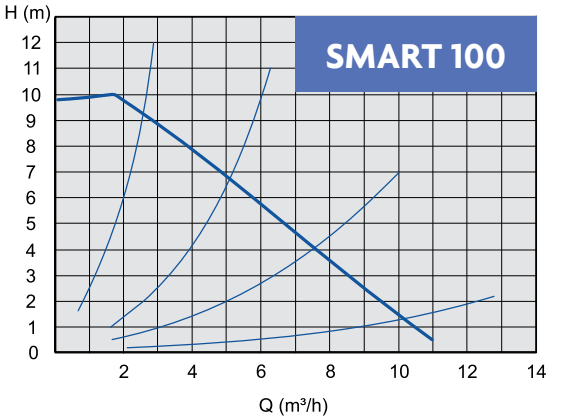
OPERATION

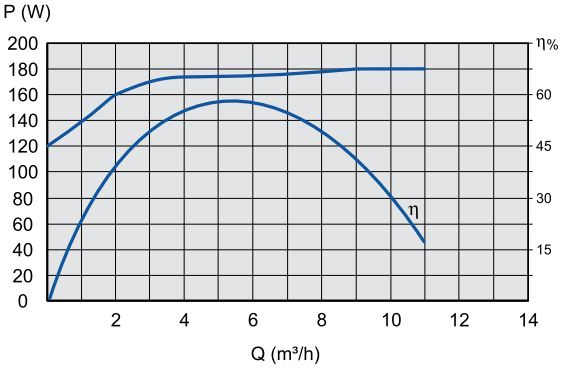
- Auto mode (default)
- Proportional pressure control
- Constant pressure control
- Constant speed
- Night mode

PRODUCT DESCRIPTION

- High efficiency ECM technology
- Energy savings
- LED Display for control
- Easy handling and installation
- Plug & Play
- Robust and compact construction for long life
- Automatic venting
- Low noise operation
- Possibility of housing with cataphoretic
- Twin pump option
- Possibility of NMTC communication module (Ethernet connection, Modbus RTU connection, Analog Control input 0 - 10 V, 3 digital inputs, 1 relay output)

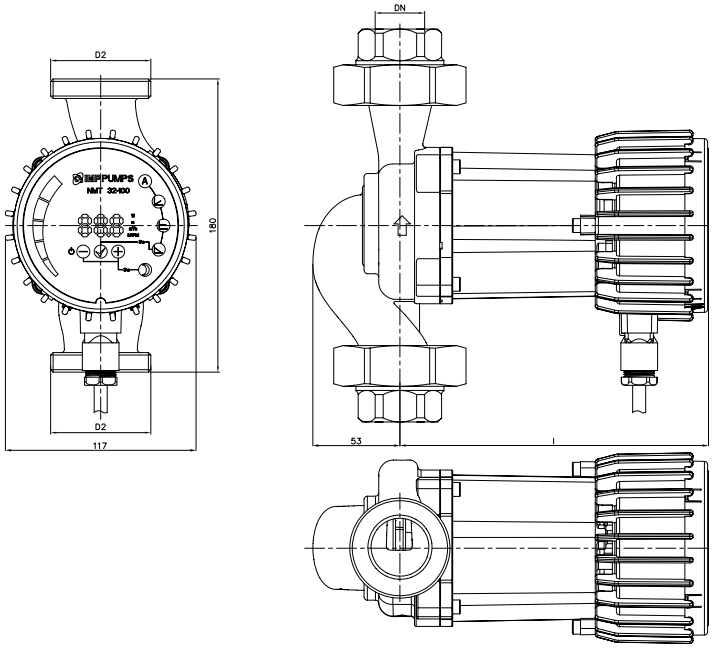
Pump component	Material
Housing	Cast iron
Impeller	PES
Shaft	Stainless steel
Bearings	Graphite
Ventricular wall	Stainless steel
Rotor can	Stainless steel





NMT	Pipe connection	DN	Fitting length	N. Pressure	Weight
SMART 25/100	Rp 1	25	180 mm	PN 10 bar	4 kg
SMART 32/100	Rp 1 ¼	32	180 mm	PN 10 bar	4,1 kg
SMART C 25/100	Rp 1	25	180 mm	PN 10 bar	4,2 kg
SMART C 32/100	Rp 1 ¼	32	180 mm	PN 10 bar	4,3 kg

Dimensions	L	DN	D2	l
SMART 25/100	180	25	6/4"	190
SMART 32/100	180	32	2"	190
SMART C 25/100	180	25	6/4"	222
SMART C 32/100	180	32	2"	222



TECHNICAL DATA

Flow Q up to 11 m³/h

Pressure H up to 10 m

Power 7 - 180 Watt

Nominal pressure 10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from +2°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,05 bar ‹ 75°C Temperature of medium

0,28 bar ‹ 90°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,21
- Built-in motor protection
- 3 control modes (proportional head, constant head, constant speed)
- Degree of protection: IP 44
- Insulation class F

HIGH-EFFICIENCY REGULATED FLANGED PUMP SMART

NMT SMART 40 F

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through display. For use in water system according to requirements of VDI 2035.

APPLICATIONS

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems.

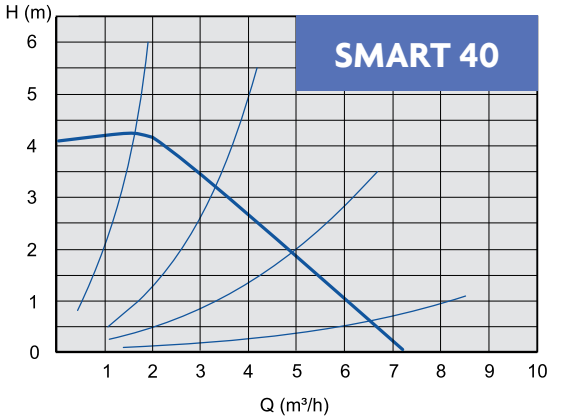
OPERATION

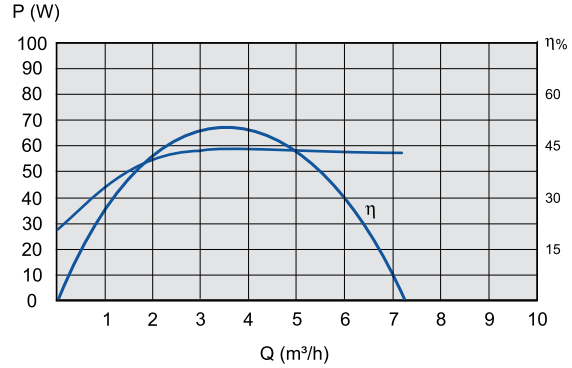
- Auto mode (default)
- Proportional pressure control
- Constant pressure control
- Constant speed
- Night mode

PRODUCT DESCRIPTION

- High efficiency ECM technology
- Energy savings
- LED Display for control
- Easy handling and installation
- Plug & Play
- Robust and compact construction for long life
- Automatic venting
- Low noise operation
- Possibility of housing with cataphoretic
- Twin pump option
- Possibility of NMTC communication module (Ethernet connection, Modbus RTU connection, Analog Control input 0 - 10 V, 3 digital inputs, 1 relay output)

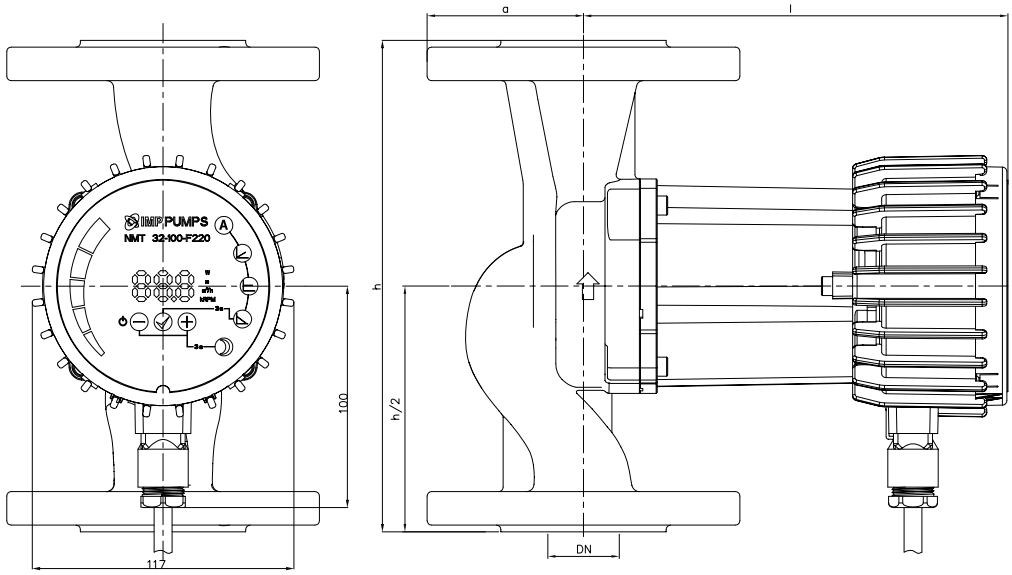
Pump component	Material
Housing	Cast iron
Impeller	PES
Shaft	Stainless steel
Bearings	Graphite
Ventricular wall	Stainless steel
Rotor can	Stainless steel





NMT	DN	Fitting length	N. Pressure	Weight
SMART 32/40 F	32	220 mm	PN 6/10 bar	7,4 kg
SMART 40/40 F	40	240 mm	PN 6/10 bar	8,5 kg
SMART C 32/40 F	32	220 mm	PN 6/10 bar	7,6 kg
SMART C 40/40 F	40	240 mm	PN 6/10 bar	8,7 kg

Dimensions	h	DN	b1	l	a
SMART 32/40 F	220	32	117	190	70
SMART 40/40 F	220	40	117	190	75
SMART C 32/40 F	220	32	117	222	70
SMART C 40/40 F	220	40	117	222	75



TECHNICAL DATA

Flow Q up to 7,5 m³/h

Pressure H up to 4 m

Power 7 - 60 Watt

Nominal pressure 6/10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from +2°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,05 bar ‹ 75°C Temperature of medium

0,28 bar ‹ 90°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,21
- Built-in motor protection
- 3 control modes (proportional head, constant head, constant speed)
- Degree of protection: IP 44
- Insulation class F

HIGH-EFFICIENCY REGULATED FLANGED PUMP

SMART

NMT SMART 60 F

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through display. For use in water system according to requirements of VDI 2035.

APPLICATIONS

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems.

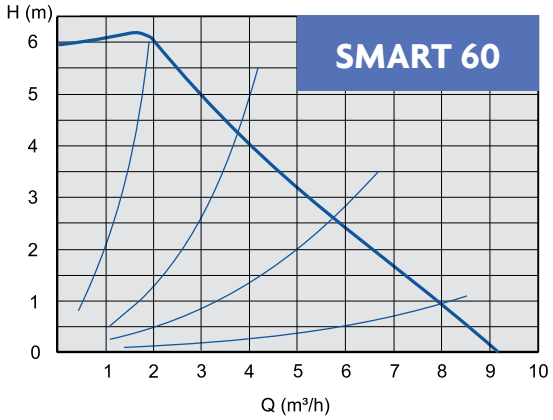
OPERATION

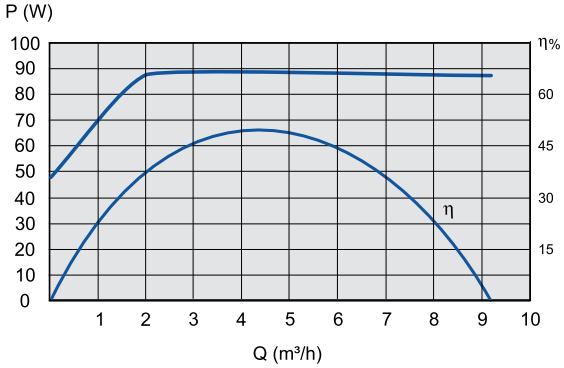
- Auto mode (default)
- Proportional pressure control
- Constant pressure control
- Constant speed
- Night mode

PRODUCT DESCRIPTION

- High efficiency ECM technology
- Energy savings
- LED Display for control
- Easy handling and installation
- Plug & Play
- Robust and compact construction for long life
- Automatic venting
- Low noise operation
- Possibility of housing with cataphoretic
- Twin pump option
- Possibility of NMTC communication module (Ethernet connection, Modbus RTU connection, Analog Control input 0 - 10 V, 3 digital inputs, 1 relay output)

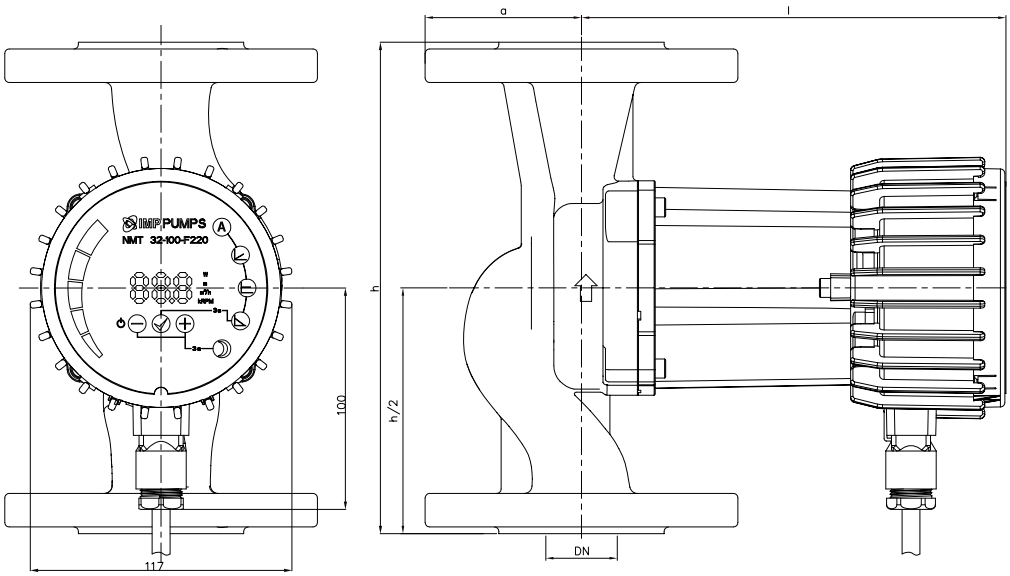
Pump component	Material
Housing	Cast iron
Impeller	PES
Shaft	Stainless steel
Bearings	Graphite
Ventricular wall	Stainless steel
Rotor can	Stainless steel





NMT	DN	Fitting length	N. Pressure	Weight
SMART 32/60 F	32	220 mm	PN 6/10 bar	7,4 kg
SMART 40/60 F	40	220 mm	PN 6/10 bar	8,5 kg
SMART C 32/60 F	32	220 mm	PN 6/10 bar	7,6 kg
SMART C 40/60 F	40	220 mm	PN 6/10 bar	8,7 kg

Dimensions	h	DN	b1	l	a
SMART 32/60 F	220	32	117	190	70
SMART 40/60 F	220	40	117	190	75
SMART C 32/60 F	220	32	117	222	70
SMART C 40/60 F	220	40	117	222	75



TECHNICAL DATA

Flow Q up to 9 m³/h

Pressure H up to 6 m

Power 7 - 90 Watt

Nominal pressure 6/10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from +2°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,05 bar ‹ 75°C Temperature of medium

0,28 bar ‹ 90°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,21
- Built-in motor protection
- 3 control modes (proportional head, constant head, constant speed)
- Degree of protection: IP 44
- Insulation class F

HIGH-EFFICIENCY REGULATED FLANGED PUMP SMART

NMT SMART 80 F

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through display. For use in water system according to requirements of VDI 2035.

APPLICATIONS

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems.

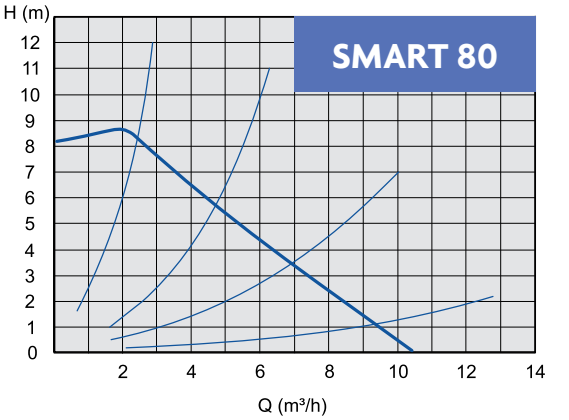
OPERATION

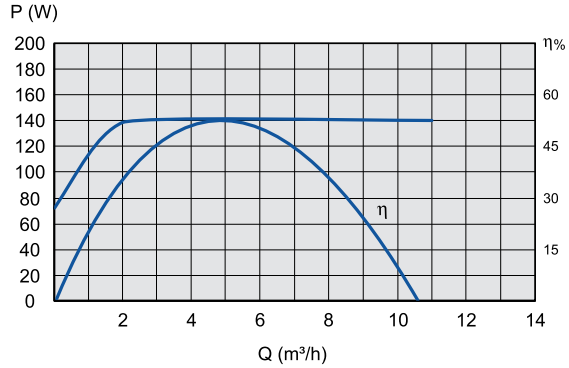
- Auto mode (default)
- Proportional pressure control
- Constant pressure control
- Constant speed
- Night mode

PRODUCT DESCRIPTION

- High efficiency ECM technology
- Energy savings
- LED Display for control
- Easy handling and installation
- Plug & Play
- Robust and compact construction for long life
- Automatic venting
- Low noise operation
- Possibility of housing with cataphoretic
- Twin pump option
- Possibility of NMTC communication module (Ethernet connection, Modbus RTU connection, Analog Control input 0 - 10 V, 3 digital inputs, 1 relay output)

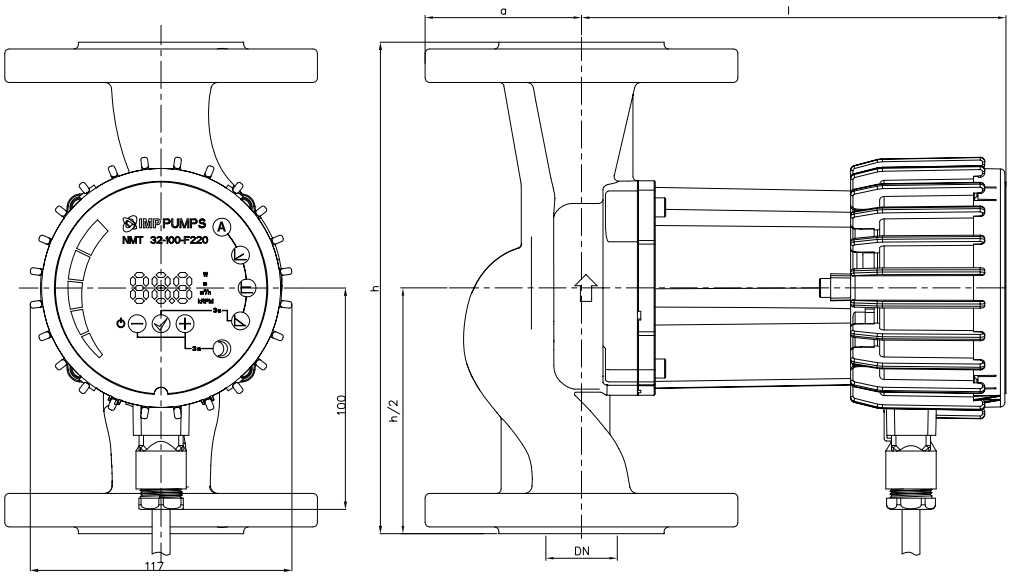
Pump component	Material
Housing	Cast iron
Impeller	PES
Shaft	Stainless steel
Bearings	Graphite
Ventricular wall	Stainless steel
Rotor can	Stainless steel





NMT	DN	Fitting length	N. Pressure	Weight
SMART 32/80 F	32	220 mm	PN 6/10 bar	7,4 kg
SMART 40/80 F	40	220 mm	PN 6/10 bar	8,5 kg
SMART C 32/80 F	32	220 mm	PN 6/10 bar	7,6 kg
SMART C 40/80 F	40	220 mm	PN 6/10 bar	8,7 kg

Dimensions	h	DN	b1	l	a
SMART 32/80 F	220	32	117	190	70
SMART 40/80 F	220	40	117	190	75
SMART C 32/80 F	220	32	117	222	70
SMART C 40/80 F	220	40	117	222	75



TECHNICAL DATA

Flow Q up to 10 m³/h

Pressure H up to 8 m

Power 7 - 140 Watt

Nominal pressure 6/10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from +2°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,05 bar ‹ 75°C Temperature of medium

0,28 bar ‹ 90°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,21
- Built-in motor protection
- 3 control modes (proportional head, constant head, constant speed)
- Degree of protection: IP 44
- Insulation class F

HIGH-EFFICIENCY REGULATED FLANGED PUMP

SMART

NMT SMART 100 F

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through display. For use in water system according to requirements of VDI 2035.

APPLICATIONS

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems.

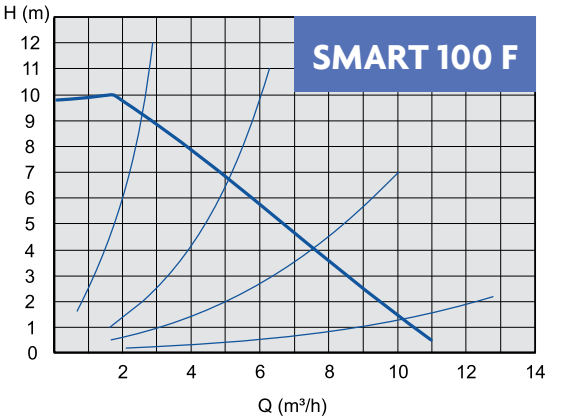
OPERATION

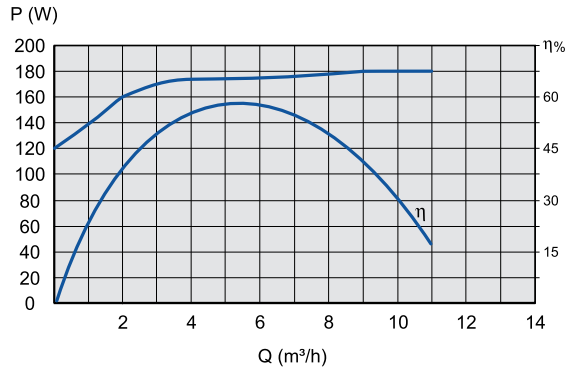
- Auto mode (default)
- Proportional pressure control
- Constant pressure control
- Constant speed
- Night mode

PRODUCT DESCRIPTION

- High efficiency ECM technology
- Energy savings
- LED Display for control
- Easy handling and installation
- Plug & Play
- Robust and compact construction for long life
- Automatic venting
- Low noise operation
- Possibility of housing with cataphoretic
- Twin pump option
- Possibility of NMTC communication module (Ethernet connection, Modbus RTU connection, Analog Control input 0 - 10 V, 3 digital inputs, 1 relay output)

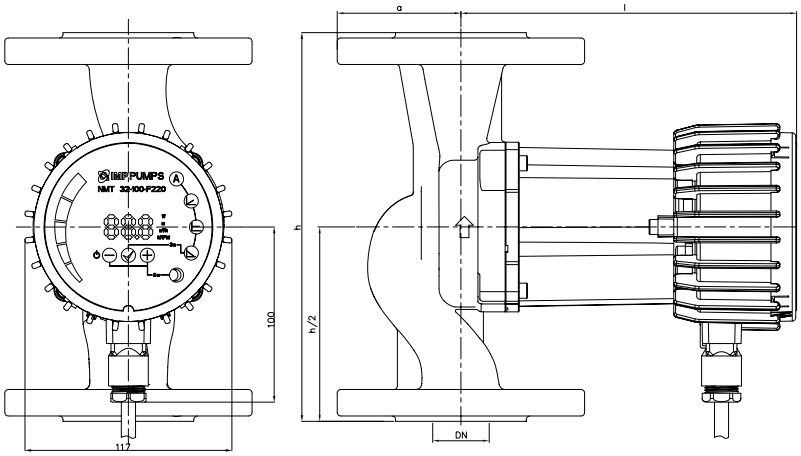
Pump component	Material
Housing	Cast iron
Impeller	PES
Shaft	Stainless steel
Bearings	Graphite
Ventricular wall	Stainless steel
Rotor can	Stainless steel





NMT	DN	Fitting length	N. Pressure	Weight
SMART 32/100 F	32	220 mm	PN 6/10 bar	7,4 kg
SMART 40/100 F	40	220 mm	PN 6/10 bar	8,5 kg
SMART 50/100 F	50	240 mm	PN 6/10 bar	9,8 kg
SMART C 32/100 F	32	220 mm	PN 6/10 bar	7,6 kg
SMART C 40/100 F	40	220 mm	PN 6/10 bar	8,7 kg
SMART C 50/100 F	50	240 mm	PN 6/10 bar	10 kg

Dimensions	h	DN	b1	l	a
SMART 32/100 F	220	32	117	190	70
SMART 40/100 F	220	40	117	190	75
SMART 50/100 F	240	50	117	190	82,5
SMART C 32/100 F	220	32	117	222	70
SMART C 40/100 F	220	40	117	222	75
SMART C 50/100 F	240	50	117	222	82,5



TECHNICAL DATA

Flow Q up to 11 m³/h

Pressure H up to 10 m

Power 7 - 180 Watt

Nominal pressure 6/10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from +2°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,05 bar ‹ 75°C Temperature of medium

0,28 bar ‹ 90°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,21
- Built-in motor protection
- 3 control modes (proportional head, constant head, constant speed)
- Degree of protection: IP 44
- Insulation class F

2014

HIGH-EFFICIENCY REGULATED FLANGED PUMP MAX

NMT MAX 120 F

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through display. For use in water system according to requirements of VDI 2035.

APPLICATIONS

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems.

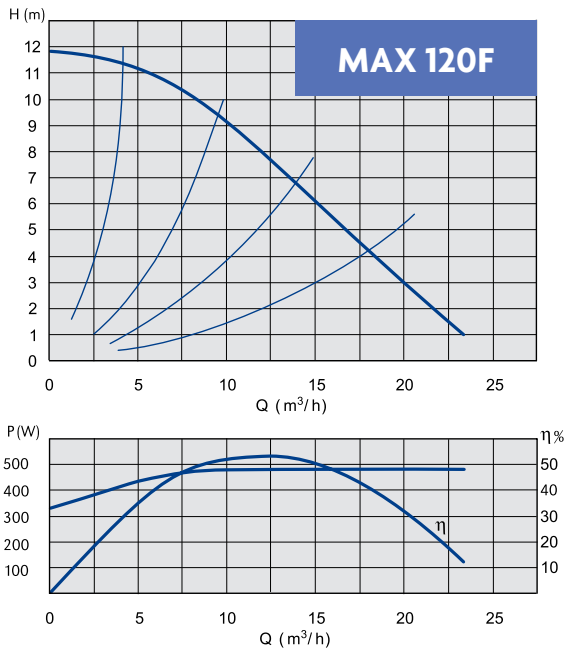
OPERATION

- Auto mode (default)
- Proportional pressure control
- Constant pressure control
- Constant speed
- Night mode

PRODUCT DESCRIPTION

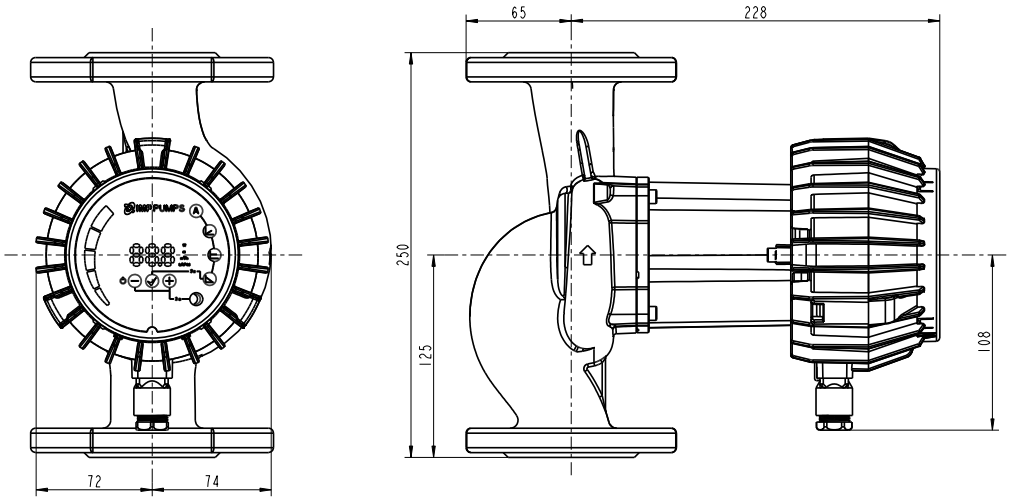
- High efficiency ECM technology
- Energy savings
- LED Display for control
- Easy handling and installation
- Plug & Play
- Robust and compact construction for long life
- Automatic venting
- Low noise operation
- Possibility of housing with cataphoretic
- Twin pump option
- Possibility of NMTC communication module (Ethernet connection, Modbus RTU connection, Analog Control input 0 - 10 V, 3 digital inputs, 1 relay output)

Pump component	Material
Housing	Cast iron
Impeller	PES
Shaft	Stainless steel
Bearings	Graphite
Ventricular wall	Stainless steel
Rotor can	Stainless steel



NMT	DN	Fitting length	N. Pressure	Weight
MAX 40/120 F	40	250 mm	PN 6/10 bar	9,0 kg
MAX C 40/120 F	40	250 mm	PN 6/10 bar	9,4 kg

Dimensions	h	DN	b1	l	a
MAX 40/120 F	250	40	146	282	65
MAX C 40/120 F	250	40	146	260	65



TECHNICAL DATA

Flow Q up to 23 m³/h

Pressure H up to 12 m

Power 25 - 480 Watt

Nominal pressure PN 6/10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from +2°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,05 bar ‹ 75°C Temperature of medium

0,28 bar ‹ 90°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,21
- Built-in motor protection
- Degree of protection: IP 44
- Insulation class F

HIGH-EFFICIENCY REGULATED FLANGED PUMP NMT

NMT 40 F

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through Ethernet connection. For use in water system according to requirements of VDI 2035.

APPLICATIONS

Heating system, air condition systems, closed loop cooling system and industrial circulatory systems. With bronze casting - SAN version, for use in drinking water circulation systems.

OPERATION

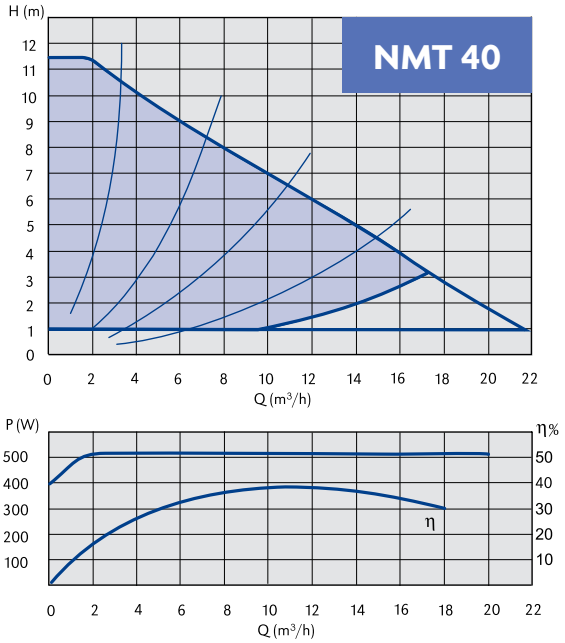
Δp-Proportional pressure control

The pump proportionally adjust the pressure, according to system resistance. Guaranteeing minimal power and energy consumptions.

PRODUCT DESCRIPTION

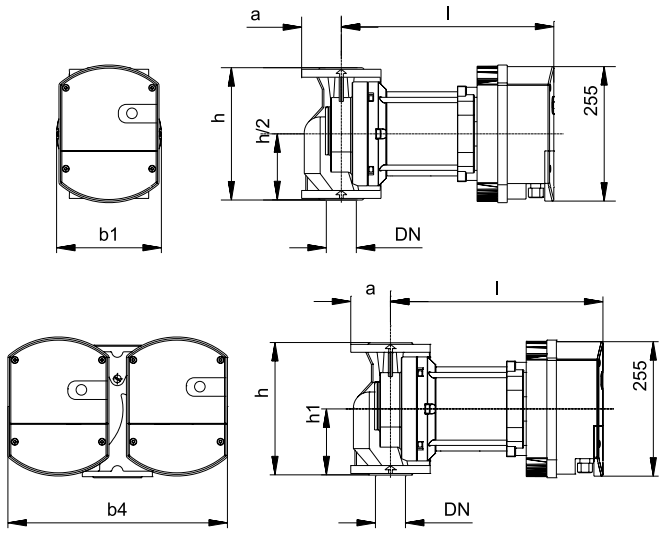
- Efficiency ECM technology
- Energy savings
- Easy handling and installation
- Robust and compact construction for long life
- Automatic venting
- Silent operation
- Possibility of housing with cataphoresis
- Twin pump option
- Twin pump option with SAN - bronze housing

Pump component	Material
Housing	Cast iron
Impeller	Stainless steal
Shaft	Stainless steal
Bearings	Graphite
Separating bush	Stainless steal
Rotor can	Stainless steal



NMT	DN	Fitting length	N. Pressure	Weight
NMT 40 F	40	250 mm	PN 6/10 bar	24 kg
NMTD 40 F	40	250 mm	PN 6/10 bar	47 kg
NMT SAN 40 F	40	250 mm	PN 6/10 bar	26 kg

Dimensions	h	DN	b1	b4	l	a
NMT 40 F	250	40	189		321	65
NMTD 40 F	250	40		403	321	65
NMT SAN 40 F	250	40	189		321	65



TECHNICAL DATA

Flow Q up to 25 m³/h

Pressure H up to 13 m

Power 20 - 500 Watt

Nominal pressure 6/10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from -10°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,5 bar ‹ 50°C Temperature of medium

0,8 bar ‹ 80°C Temperature of medium

1,4 bar ‹ 110°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,27
- Built-in motor protection
- Methods of control:
  - Current control (limit current)
  - Power control (limit power)
  - Constant pressure control (Δp-c)
  - Proportional pressure control (Δp-v)
  - Option settings QH curve at fixed speeds
  - Constant speed
- Degree of protection: IP 44
- Insulation class H

HIGH-EFFICIENCY REGULATED FLANGED PUMP NMT

NMT 50 F

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through Ethernet connection. For use in water system according to requirements of VDI 2035.

APPLICATIONS

Heating system, air condition systems, closed loop cooling system and industrial circulatory systems. With bronze casting - SAN version, for use in drinking water circulation systems.

OPERATION

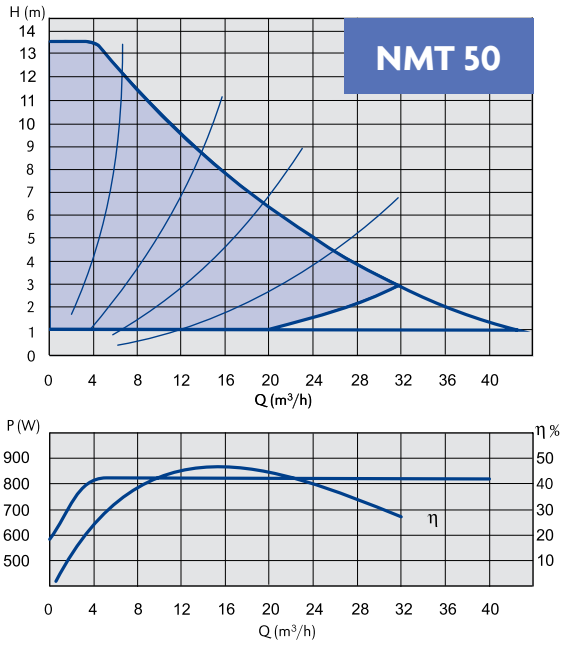
Δp-Proportional pressure control

The pump proportionally adjust the pressure, according to system resistance. Guaranteeing minimal power and energy consumptions.

PRODUCT DESCRIPTION

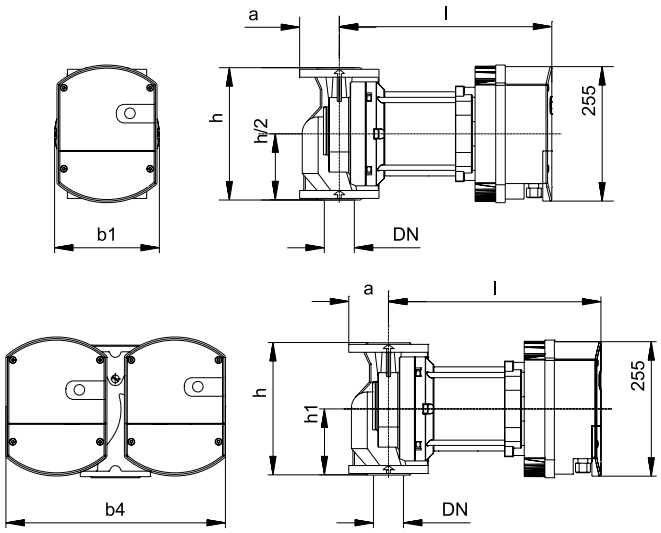
- Efficiency ECM technology
- Energy savings
- Easy handling and installation
- Robust and compact construction for long life
- Automatic venting
- Silent operation
- Possibility of housing with cataphoresis
- Twin pump option
- Twin pump option with SAN - bronze housing

Pump component	Material
Housing	Cast iron
Impeller	Stainless steal
Shaft	Stainless steal
Bearings	Graphite
Separating bush	Stainless steal
Rotor can	Stainless steal



NMT	DN	Fitting length	N. Pressure	Weight
NMT 50 F	50	280 mm	PN 6/10 bar	31 kg
NMTD 50 F	50	280 mm	PN 6/10 bar	60 kg
NMT SAN 50 F	50	280 mm	PN 6/10 bar	33 kg

Dimensions	h	DN	b1	b4	l	a
NMT 50 F	280	50	189		355	70
NMTD 50 F	280	50		403	355	70
NMT SAN 50 F	280	50	189		355	70



TECHNICAL DATA

Flow Q up to 39 m³/h

Pressure H up to 13 m

Power 26 - 800 Watt

Nominal pressure 6/10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from -10°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,5 bar ‹ 50°C Temperature of medium

0,8 bar ‹ 80°C Temperature of medium

1,4 bar ‹ 110°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,26
- Built-in motor protection
- Methods of control:
  - Current control (limit current)
  - Power control (limit power)
  - Constant pressure control (Δp-c)
  - Proportional pressure control (Δp-v)
  - Option settings QH curve at fixed speeds
  - Constant speed
- Degree of protection: IP 44
- Insulation class H

HIGH-EFFICIENCY REGULATED FLANGED PUMP NMT

NMT 65 F

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through Ethernet connection. For use in water system according to requirements of VDI 2035.

APPLICATIONS

Heating system, air condition systems, closed loop cooling system and industrial circulatory systems. With bronze casting - SAN version, for use in drinking water circulation systems.

OPERATION

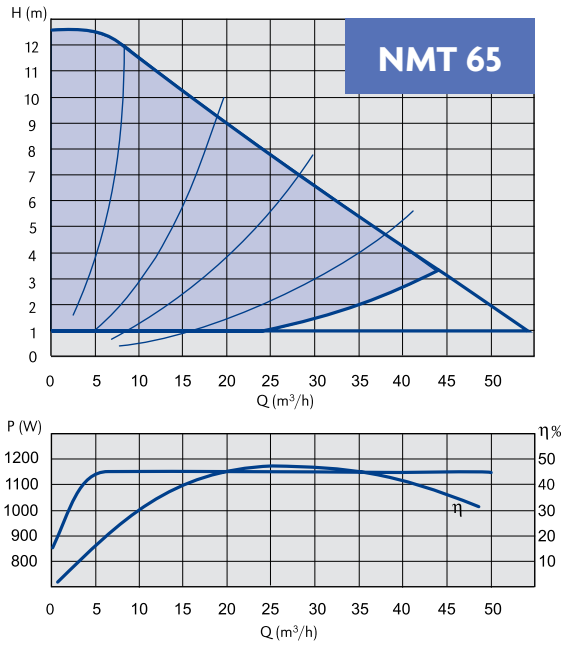
Δp-Proportional pressure control

The pump proportionally adjust the pressure, according to system resistance. Guaranteeing minimal power and energy consumptions.

PRODUCT DESCRIPTION

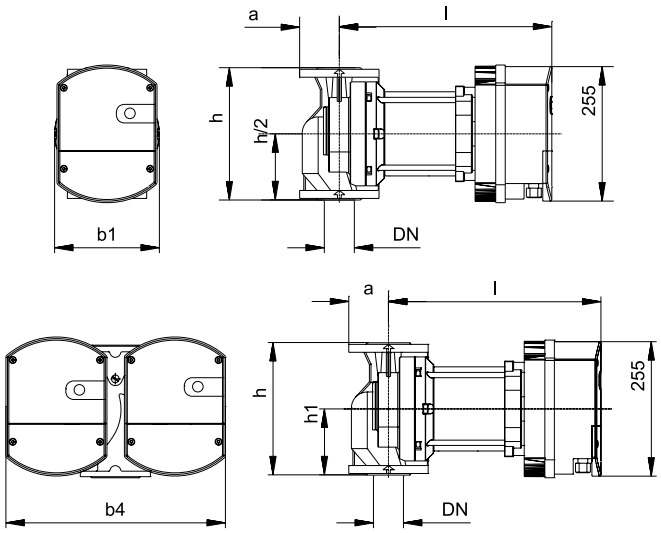
- Efficiency ECM technology
- Energy savings
- Easy handling and installation
- Robust and compact construction for long life
- Automatic venting
- Silent operation
- Possibility of housing with cataphoresis
- Twin pump option
- Twin pump option with SAN - bronze housing

Pump component	Material
Housing	Cast iron
Impeller	Stainless steal
Shaft	Stainless steal
Bearings	Graphite
Separating bush	Stainless steal
Rotor can	Stainless steal



NMT	DN	Fitting length	N. Pressure	Weight
NMT 65 F	65	340 mm	PN 6/10 bar	36 kg
NMTD 65 F	65	340 mm	PN 6/10 bar	63 kg
NMT SAN 65 F	65	340 mm	PN 6/10 bar	38,5 kg

Dimensions	h	DN	b1	b4	l	a
NMT 65 F	340	65	189		369	80
NMTD 65 F	340	65		452	369	80
NMT SAN 65 F	340	65	189		369	80



TECHNICAL DATA

Flow Q up to 65 m³/h

Pressure H up to 13 m

Power 38 - 1100 Watt

Nominal pressure 6/10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from -10°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,5 bar ‹ 50°C Temperature of medium

0,8 bar ‹ 80°C Temperature of medium

1,4 bar ‹ 110°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,25
- Built-in motor protection
- Methods of control:
  - Current control (limit current)
  - Power control (limit power)
  - Constant pressure control (Δp-c)
  - Proportional pressure control (Δp-v)
  - Option settings QH curve at fixed speeds
  - Constant speed
- Degree of protection: IP 44
- Insulation class H

HIGH-EFFICIENCY REGULATED FLANGED PUMP NMT

NMT 80 F

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through Ethernet connection. For use in water system according to requirements of VDI 2035.

APPLICATIONS

Heating system, air condition systems, closed loop cooling system and industrial circulatory systems. With bronze casting - SAN version, for use in drinking water circulation systems.

OPERATION

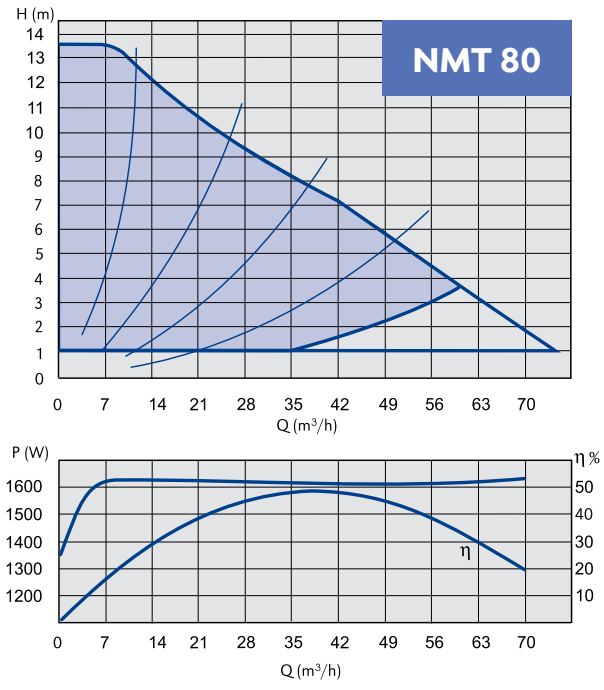
Δp-Proportional pressure control

The pump proportionally adjust the pressure, according to system resistance. Guaranteeing minimal power and energy consumptions.

PRODUCT DESCRIPTION

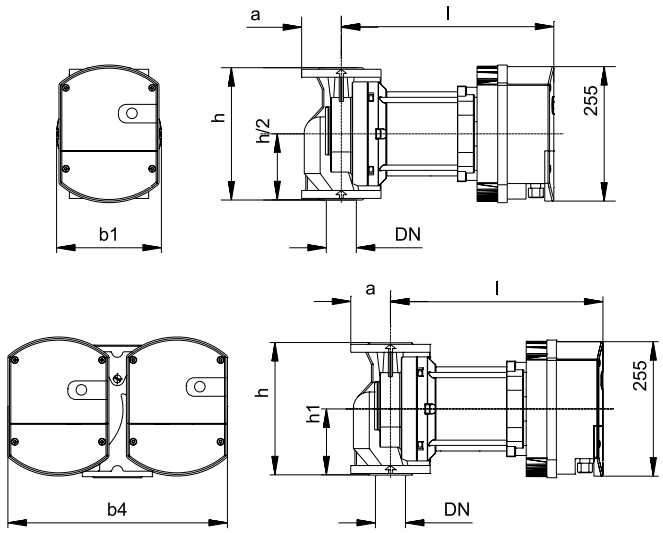
- Efficiency ECM technology
- Energy savings
- Easy handling and installation
- Robust and compact construction for long life
- Automatic venting
- Silent operation
- Possibility of housing with cataphoresis
- Twin pump option

Pump component	Material
Housing	Cast iron
Impeller	Stainless steal
Shaft	Stainless steal
Bearings	Graphite
Separating bush	Stainless steal
Rotor can	Stainless steal



NMT	DN	Fitting length	N. Pressure	Weight
NMT 80 F	80	360 mm	PN 6 bar	44 kg
NMT 80 F	80	360 mm	PN 10 bar	44 kg
NMTD 80 F	80	360 mm	PN 6 bar	81 kg
NMTD 80 F	80	360 mm	PN 10 bar	81 kg

Dimensions	h	DN	b1	b4	l	a
NMT 80 F	360	80	189		403	100
NMTD 80 F	360	80		462	403	100



TECHNICAL DATA

Flow Q up to 78 m³/h

Pressure H up to 13 m

Power 45 - 1600 Watt

Nominal pressure PN6 or PN10

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from -10°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,5 bar ‹ 50°C Temperature of medium

0,8 bar ‹ 80°C Temperature of medium

1,4 bar ‹ 110°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,23
- Built-in motor protection
- Methods of control:
  - Current control (limit current)
  - Power control (limit power)
  - Constant pressure control (Δp-c)
  - Proportional pressure control (Δp-v)
  - Option settings QH curve at fixed speeds
  - Constant speed
- Degree of protection: IP 44
- Insulation class H

HIGH-EFFICIENCY REGULATED FLANGED PUMP NMT

NMT 100 F

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through Ethernet connection. For use in water system according to requirements of VDI 2035.

APPLICATIONS

Heating system, air condition systems, closed loop cooling system and industrial circulatory systems. With bronze casting - SAN version, for use in drinking water circulation systems.

OPERATION

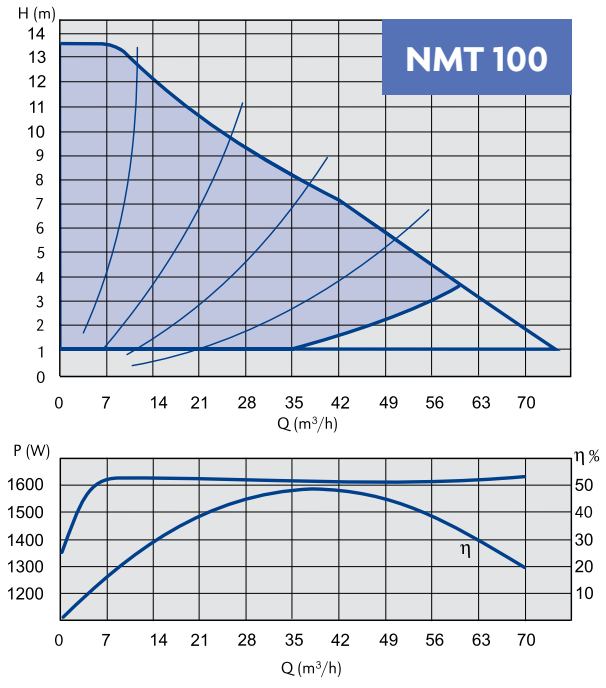
Δp-Proportional pressure control

The pump proportionally adjust the pressure, according to system resistance. Guaranteeing minimal power and energy consumptions.

PRODUCT DESCRIPTION

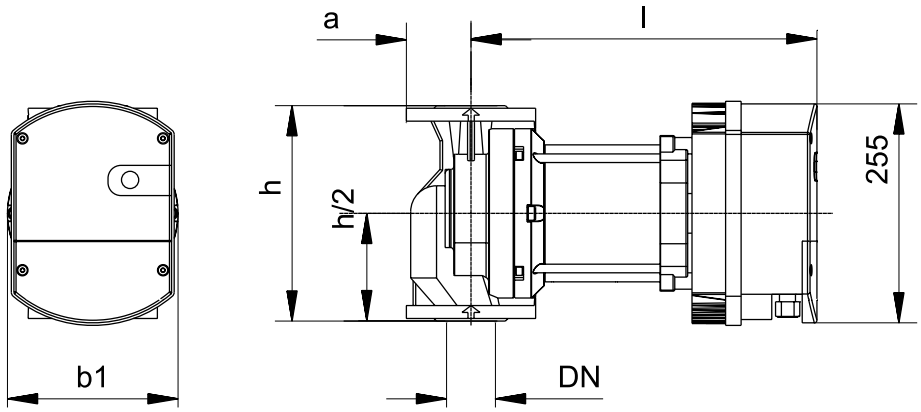
- Efficiency ECM technology
- Energy savings
- Easy handling and installation
- Robust and compact construction for long life
- Automatic venting
- Silent operation
- Possibility of housing with cataphoresis
- Twin pump option

Pump component	Material
Housing	Cast iron
Impeller	Stainless steal
Shaft	Stainless steal
Bearings	Graphite
Separating bush	Stainless steal
Rotor can	Stainless steal



NMT	DN	Fitting length	N. Pressure	Weight
NMT 100 F	100	360 mm	PN 6 bar	47 kg
NMT 100 F	100	360 mm	PN 10 bar	47 kg

Dimensions	L	DN	A	B	C
NMT 100 F	360	100	189	403	110



TECHNICAL DATA

Flow Q up to 78 m³/h

Pressure H up to 13 m

Power 45 - 1600 Watt

Nominal pressure PN6 or PN10

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from -10°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,5 bar ‹ 50°C Temperature of medium

0,8 bar ‹ 80°C Temperature of medium

1,4 bar ‹ 110°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,23
- Built-in motor protection
- Methods of control:
  - Current control (limit current)
  - Power control (limit power)
  - Constant pressure control (Δp-c)
  - Proportional pressure control (Δp-v)
  - Option settings QH curve at fixed speeds
  - Constant speed
- Degree of protection: IP 44
- Insulation class H

HIGH-EFFICIENCY REGULATED FLANGED PUMP LAN

NMT LAN 40 F

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through Ethernet connection and display. For use in water system according to requirements of VDI 2035.

APPLICATIONS

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems.

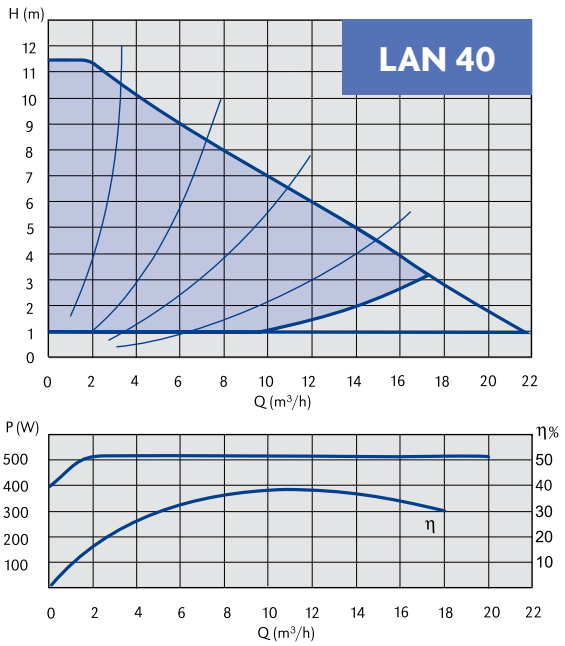
OPERATION

- Auto mode (default)
- Proportional pressure control
- Constant pressure control
- Constant speed
- Night mode

PRODUCT DESCRIPTION

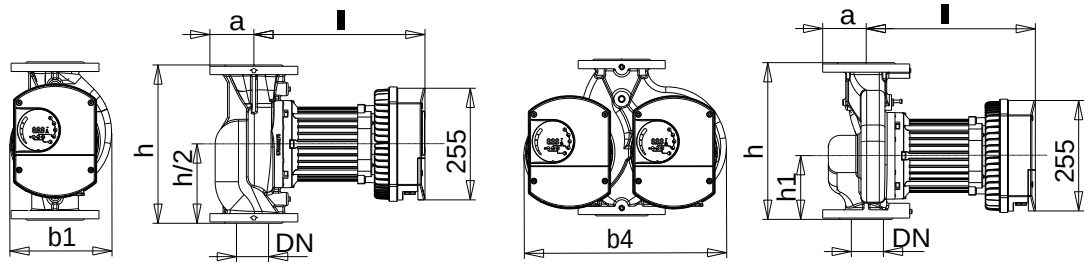
- High efficiency ECM technology
- LED Display for control
- Easy operation and simple installation
- Ethernet connection
- Possibility of housing with cataphoresis
- Twin pump option
- Twin pump option with SAN - bronze housing
- Possibility of NMTC communication module (Ethernet connection, Modbus RTU connection, Analog Control input 0 - 10 V, 3 digital inputs, 1 relay output)

Pump component	Material
Housing	Cast iron
Impeller	Stainless steal
Shaft	Stainless steal
Bearings	Graphite
Separating bush	Stainless steal
Rotor can	Stainless steal



NMT	DN	Fitting length	N. Pressure	Weight
NMT LAN 40 F	40	250 mm	PN 6/10 bar	24 kg
NMT LAN C 40 F	40	250 mm	PN 6/10 bar	24 kg
NMTD LAN 40 F	40	250 mm	PN 6/10 bar	47 kg
NMTD LAN C 40 F	40	250 mm	PN 6/10 bar	47 kg
NMT SAN LAN 40 F	40	250 mm	PN 6/10 bar	26 kg
NMT SAN LAN C 40 F	40	250 mm	PN 6/10 bar	26 kg

Dimensions	L	DN	A	B	C	a
NMT LAN 40 F	250	40	189		321	65
NMT LAN C 40 F	250	40	189		321	65
NMTD LAN 40 F	250	40		403	321	65
NMTD LAN C 40 F	250	40		403	321	65
NMT SAN LAN 40 F	250	40	189		321	65
NMT SAN LAN C 40 F	250	40	189		321	65



TECHNICAL DATA

Flow Q up to 25 m³/h

Pressure H up to 13 m

Power 20 - 500 Watt

Nominal pressure 6/10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from -10°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,5 bar ‹ 50°C Temperature of medium

0,8 bar ‹ 80°C Temperature of medium

1,4 bar ‹ 110°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,27
- Built-in motor protection
- Methods of control:
  - Current control (limit current)
  - Power control (limit power)
  - Constant pressure control (Δp-c)
  - Dp prop (Δp-v)
  - Option settings QH curve at fixed speeds
  - Constant speed
- Degree of protection: IP 44
- Insulation class H

HIGH-EFFICIENCY REGULATED FLANGED PUMP LAN

NMT LAN 50 F

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through Ethernet connection and display. For use in water system according to requirements of VDI 2035.

APPLICATIONS

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems.

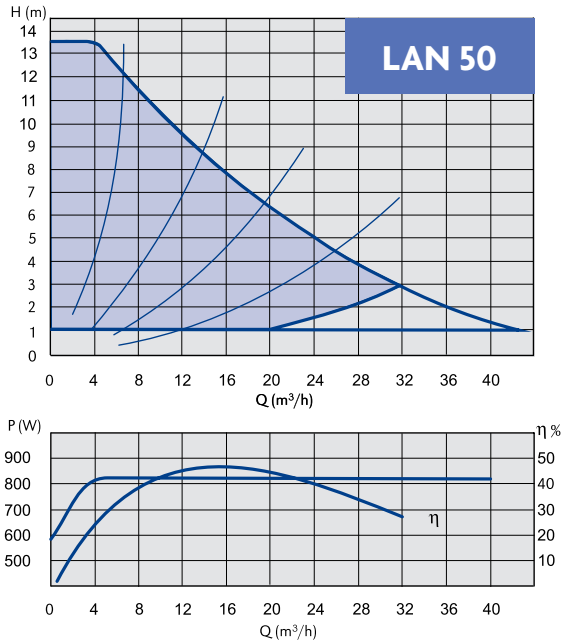
OPERATION

- Auto mode (default)
- Proportional pressure control
- Constant pressure control
- Constant speed
- Night mode

PRODUCT DESCRIPTION

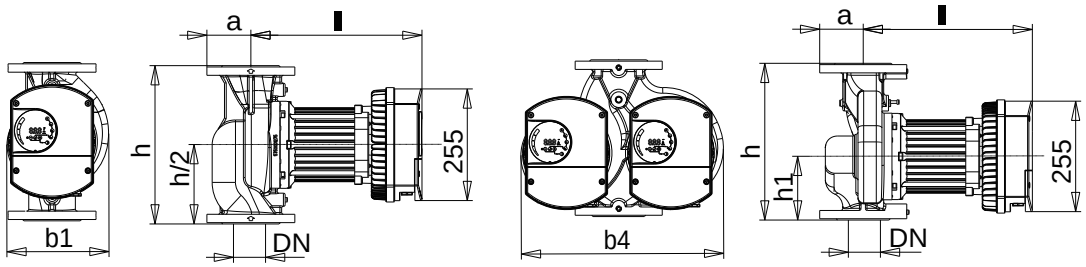
- High efficiency ECM technology
- LED Display for control
- Easy operation and simple installation
- Ethernet connection
- Possibility of housing with cataphoresis
- Twin pump option
- Twin pump option with SAN - bronze housing
- Possibility of NMTC communication module (Ethernet connection, Modbus RTU connection, Analog Control input 0 - 10 V, 3 digital inputs, 1 relay output)

Pump component	Material
Housing	Cast iron
Impeller	Stainless steal
Shaft	Stainless steal
Bearings	Graphite
Separating bush	Stainless steal
Rotor can	Stainless steal



NMT	DN	Fitting length	N. Pressure	Weight
NMT LAN 50 F	50	280 mm	PN 6/10 bar	31 kg
NMT LAN C 50 F	50	280 mm	PN 6/10 bar	31 kg
NMTD LAN 50 F	50	280 mm	PN 6/10 bar	60 kg
NMTD LAN C 50 F	50	280 mm	PN 6/10 bar	60 kg
NMT SAN LAN 50 F	50	280 mm	PN 6/10 bar	33 kg
NMT SAN LAN C 50 F	50	280 mm	PN 6/10 bar	33 kg

Dimensions	L	DN	A	B	C	a
NMT LAN 50 F	280	50	189		355	70
NMT LAN C 50 F	280	50	189		355	70
NMTD LAN 50 F	280	50		403	355	70
NMTD LAN C 50 F	280	50		403	355	70
NMT SAN LAN 50 F	280	50	189		355	70
NMT SAN LAN C 50 F	280	50	189		355	70



TECHNICAL DATA

Flow Q up to 39 m³/h

Pressure H up to 13 m

Power 26 - 800 Watt

Nominal pressure 6/10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from -10°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,5 bar ‹ 50°C Temperature of medium

0,8 bar ‹ 80°C Temperature of medium

1,4 bar ‹ 110°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,26
- Built-in motor protection
- Methods of control:
  - Current control (limit current)
  - Power control (limit power)
  - Constant pressure control (Δp-c)
  - Dp prop (Δp-v)
  - Option settings QH curve at fixed speeds
  - Constant speed
- Degree of protection: IP 44
- Insulation class H

HIGH-EFFICIENCY REGULATED FLANGED PUMP LAN

NMT LAN 65 F

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through Ethernet connection and display. For use in water system according to requirements of VDI 2035.

APPLICATIONS

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems.

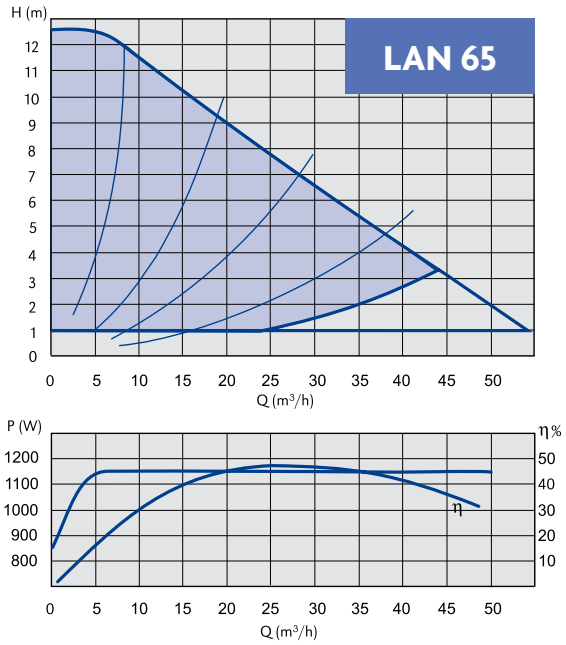
OPERATION

- Auto mode (default)
- Proportional pressure control
- Constant pressure control
- Constant speed
- Night mode

PRODUCT DESCRIPTION

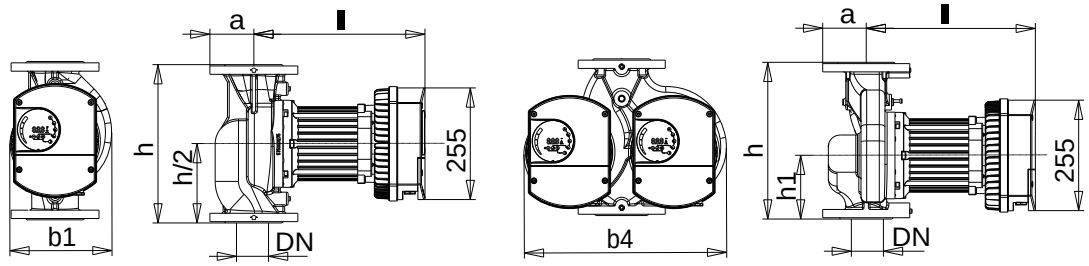
- High efficiency ECM technology
- LED Display for control
- Easy operation and simple installation
- Ethernet connection
- Possibility of housing with cataphoresis
- Twin pump option
- Twin pump option with SAN - bronze housing
- Possibility of NMTC communication module (Ethernet connection, Modbus RTU connection, Analog Control input 0 - 10 V, 3 digital inputs, 1 relay output)

Pump component	Material
Housing	Cast iron
Impeller	Stainless steal
Shaft	Stainless steal
Bearings	Graphite
Separating bush	Stainless steal
Rotor can	Stainless steal



NMT	DN	Fitting length	N. Pressure	Weight
NMT LAN 65 F	65	340 mm	PN 6/10 bar	36 kg
NMT LAN C 65 F	65	340 mm	PN 6/10 bar	36 kg
NMTD LAN 65 F	65	340 mm	PN 6/10 bar	63 kg
NMTD LAN C 65 F	65	340 mm	PN 6/10 bar	63 kg
NMT SAN LAN 65 F	65	340 mm	PN 6/10 bar	38,5 kg
NMT SAN LAN C 65 F	65	340 mm	PN 6/10 bar	38,5 kg

Dimensions	L	DN	A	B	C	a
NMT LAN 65 F	340	65	189		369	80
NMT LAN C 65 F	340	65	189		369	80
NMTD LAN 65 F	340	65		452	369	80
NMTD LAN C 65 F	340	65		452	369	80
NMT SAN LAN 65 F	340	65	189		369	80
NMT SAN LAN C 65 F	340	65	189		369	80



TECHNICAL DATA

Flow Q up to 65 m³/h

Pressure H up to 13 m

Power 38 - 1100 Watt

Nominal pressure 6/10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from -10°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,5 bar ‹ 50°C Temperature of medium

0,8 bar ‹ 80°C Temperature of medium

1,4 bar ‹ 110°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,25
- Built-in motor protection
- Methods of control:
  - Current control (limit current)
  - Power control (limit power)
  - Constant pressure control (Δp-c)
  - Dp prop (Δp-v)
  - Option settings QH curve at fixed speeds
  - Constant speed
- Degree of protection: IP 44
- Insulation class H

HIGH-EFFICIENCY REGULATED FLANGED PUMP LAN

NMT LAN 80 F

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through Ethernet connection and display. For use in water system according to requirements of VDI 2035.

APPLICATIONS

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems.

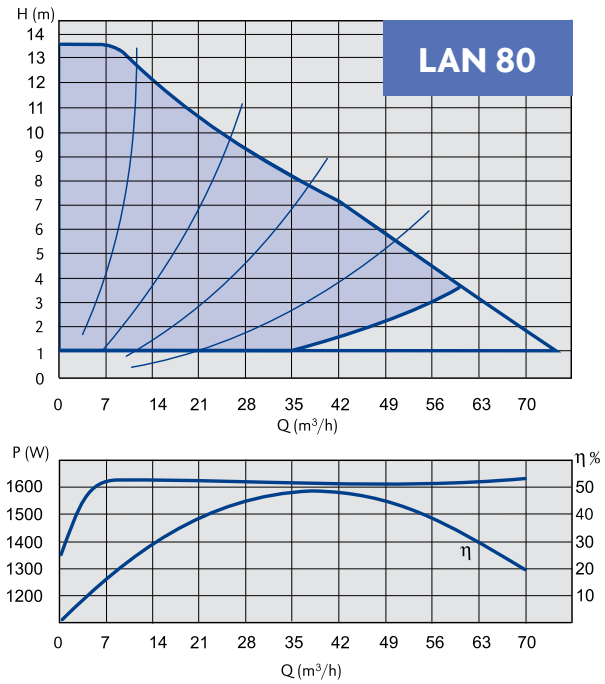
OPERATION

- Auto mode (default)
- Proportional pressure control
- Constant pressure control
- Constant speed
- Night mode

PRODUCT DESCRIPTION

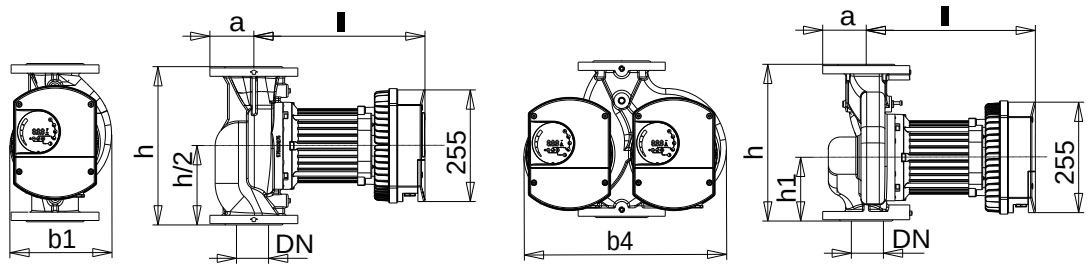
- High efficiency ECM technology
- LED Display for control
- Easy operation and simple installation
- Ethernet connection
- Possibility of housing with cataphoresis
- Twin pump option
- Possibility of NMTC communication module (Ethernet connection, Modbus RTU connection, Analog Control input 0 - 10 V, 3 digital inputs, 1 relay output)

Pump component	Material
Housing	Cast iron
Impeller	Stainless steal
Shaft	Stainless steal
Bearings	Graphite
Separating bush	Stainless steal
Rotor can	Stainless steal



NMT	DN	Fitting length	N. Pressure	Weight
NMT LAN 80 F	80	360 mm	PN 6 bar	44 kg
NMT LAN C 80 F	80	360 mm	PN 6 bar	44 kg
NMT LAN 80 F	80	360 mm	PN 10 bar	44 kg
NMT LAN C 80 F	80	360 mm	PN 10 bar	44 kg
NMTD LAN 80 F	80	360 mm	PN 6 bar	81 kg
NMTD LAN C 80 F	80	360 mm	PN 6 bar	81 kg
NMTD LAN 80 F	80	360 mm	PN 10 bar	81 kg
NMTD LAN C 80 F	80	360 mm	PN 10 bar	81 kg

Dimensions	L	DN	A	B	C	a
NMT LAN 80 F	360	80	189		403	100
NMT LAN C 80 F	360	80	189		403	100
NMTD LAN 80 F	360	80		462	403	100
NMTD LAN C 80 F	360	80		462	403	100



TECHNICAL DATA

Flow Q up to 78 m³/h

Pressure H up to 13 m

Power 45 - 1600 Watt

Nominal pressure PN6 or PN10

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from -10°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,5 bar ‹ 50°C Temperature of medium

0,8 bar ‹ 80°C Temperature of medium

1,4 bar ‹ 110°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,23
- Built-in motor protection
- Methods of control:
  - Current control (limit current)
  - Power control (limit power)
  - Constant pressure control (Δp-c)
  - Dp prop (Δp-v)
  - Option settings QH curve at fixed speeds
  - Constant speed
- Degree of protection: IP 44
- Insulation class H

HIGH-EFFICIENCY REGULATED FLANGED PUMP LAN

NMT LAN 100 F

PERFORMANCE

High efficiency ECM motor series pumps with canned motor and permanent magnets. Variable and constant pressure control through Ethernet connection and display. For use in water system according to requirements of VDI 2035.

APPLICATIONS

All heating systems, air condition systems, closed loop cooling systems and industrial circulatory systems.

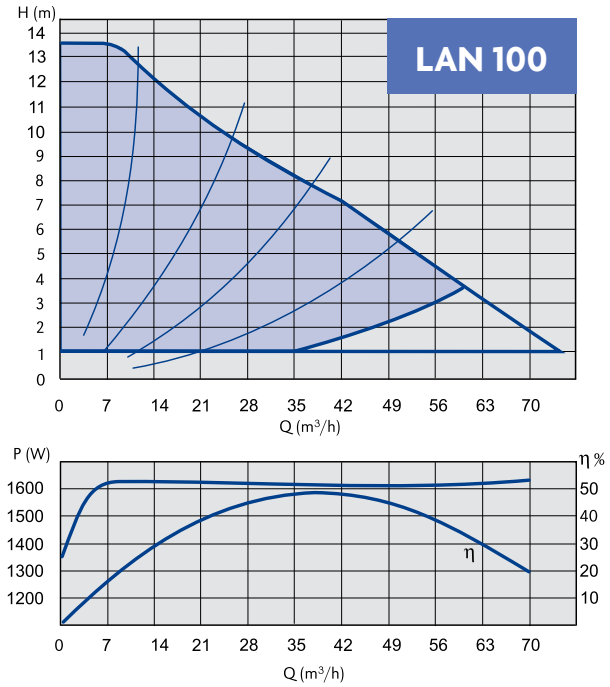
OPERATION

- Auto mode (default)
- Proportional pressure control
- Constant pressure control
- Constant speed
- Night mode

PRODUCT DESCRIPTION

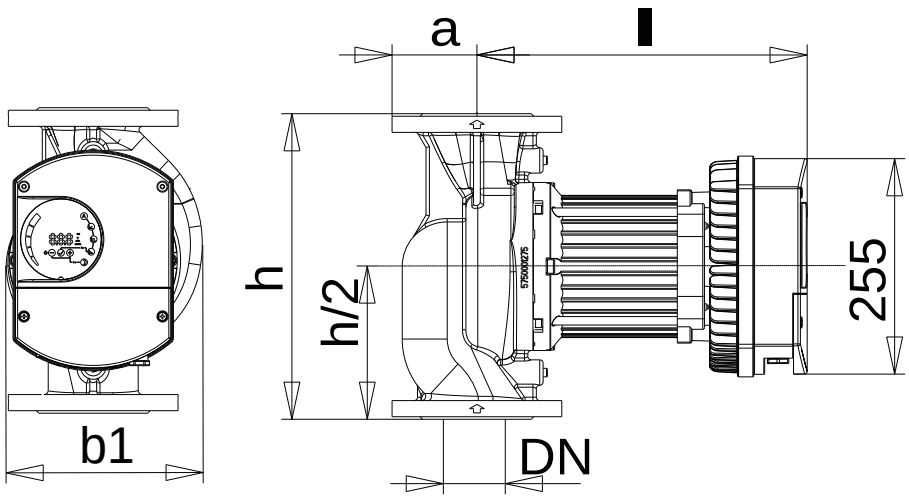
- High efficiency ECM technology
- LED Display for control
- Easy operation and simple installation
- Ethernet connection
- Possibility of housing with cataphoresis
- Possibility of NMTC communication module (Ethernet connection, Modbus RTU connection, Analog Control input 0 - 10 V, 3 digital inputs, 1 relay output)

Pump component	Material
Housing	Cast iron
Impeller	Stainless steal
Shaft	Stainless steal
Bearings	Graphite
Separating bush	Stainless steal
Rotor can	Stainless steal



NMT	DN	Fitting length	N. Pressure	Weight
NMT LAN 100 F	100	360 mm	PN 6 bar	47 kg
NMT LAN C 100 F	100	360 mm	PN 6 bar	47 kg
NMT LAN 100 F	100	360 mm	PN 10 bar	47 kg
NMT LAN C 100 F	100	360 mm	PN 10 bar	47 kg

Dimensions	L	DN	A	B	C	a
NMT LAN 100 F	360	100	189		403	110
NMT LAN C 100 F	360	100	189		403	110



TECHNICAL DATA

Flow Q up to 78 m³/h

Pressure H up to 13 m

Power 45 - 1600 Watt

Nominal pressure PN6 or PN10

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature from -10°C to +110°C with max. surroundings temperature up to +40°C

Minimum inlet pressure

0,5 bar ‹ 50°C Temperature of medium

0,8 bar ‹ 80°C Temperature of medium

1,4 bar ‹ 110°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Motor with permanent magnets
- The energy index EEI ≤ 0,23
- Built-in motor protection
- Methods of control:
  - Current control (limit current)
  - Power control (limit power)
  - Constant pressure control (Δp-c)
  - Dp prop (Δp-v)
  - Option settings QH curve at fixed speeds
  - Constant speed
- Degree of protection: IP 44
- Insulation class H

ECO HIGH-EFFICIENCY REGULATED PUMPS FOR DOMESTIC HOT WATER

SAN

PERFORMANCE

The high-efficiency, continuously, manually adjustable pump for domestic hot water, freely flowing ball axis permanent magnet motor and ECM technology.

APPLICATIONS

The pump automatically adjust the pressure, according to system resistance.

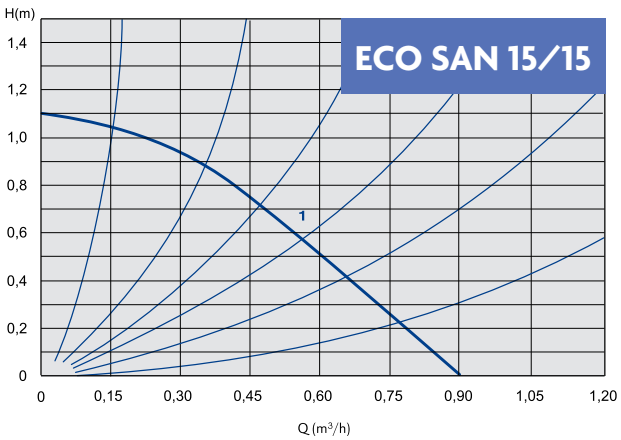
OPERATION

The pump automatically adjust the pressure, according to system resistance. The timer installation is possible for selecting the starting time of the operation and adjusting the thermostat.

PRODUCT DESCRIPTION

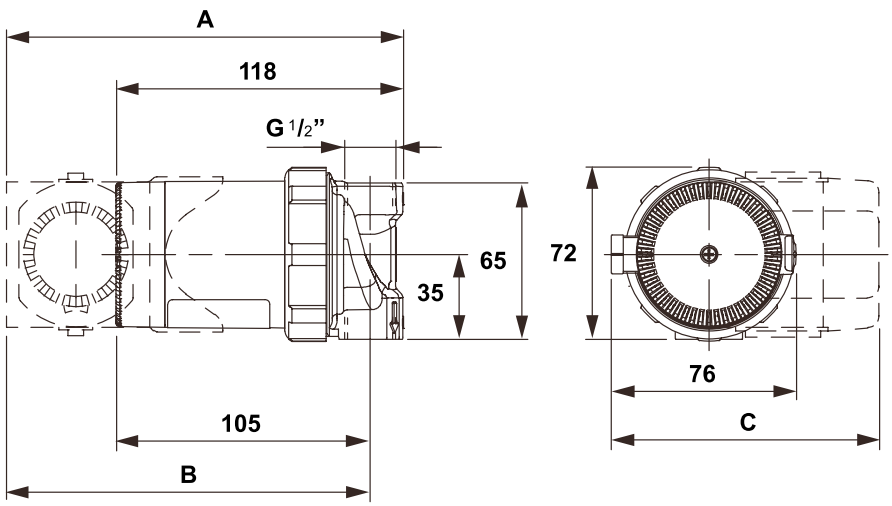
- The high efficiency of the ECM technology
- Energy savings
- 4 possible performances
  - B version with bronze housing
  - BU version with bronze housing and timer
  - BTU model with bronze housing, thermostat and timer
  - GT version with bronze housing and thermostat
- Easy handling and installation
- Robust and compact construction for long life
- Specially adapted to the independence of lime scale
- Easy to use and small

Pump component	Material
Housing	Bronze
Ceramic bearings	Ceramics
Rotor impeler	Polyamide



ECO SAN	DN	Fitting length	N. Pressure	Weight
15/15 B	15	65 mm	PN 10 bar	0,9 kg
15/15 BU	15	65 mm	PN 10 bar	1,0 kg
15/15 BTU	15	65 mm	PN 10 bar	1,0 kg
15/15 BT	15	65 mm	PN 10 bar	1,0 kg

Dimensions	L	DN	A	B	C
15/15 BT	65 mm	15	163	150	110
15/15 BTU	65 mm	15	163	150	110



TECHNICAL DATA

Flow Q up to 0,9 m³/h

Pressure H up to 1,1 m

Power 2 - 8 Watt

Nominal pressure 10 bar

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 from mineral oils and without solid particles

Permissible temperature range

- Medium temperature to +95°C

Minimum inlet pressure

0,05 bar ‹ 75°C Temperature of medium

0,28 bar ‹ 90°C Temperature of medium

Electrical connection

Voltage 1 ~ 230 V, 50/60 Hz

Motor/Electronics

- Maximum power 8 W
- Shaftless spherical motor with ECM technology
- Protection IP 44
- Insulation class F
- Optional with thermostat for temperature range 20-70°C
- Optional timer

The information in this specification is correct at time of issue; as AquaTech Pressmain design and development programmes are continuous, we reserve the right to make any changes to this specification without prior notice.

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Leaders in the design, manufacture and assembly of packaged fluid pumping equipment and control systems.
Applications: Cold Water Supply; Fire Fighting; Heating & Chilled System Pressurisation; Tank Level Monitoring.

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