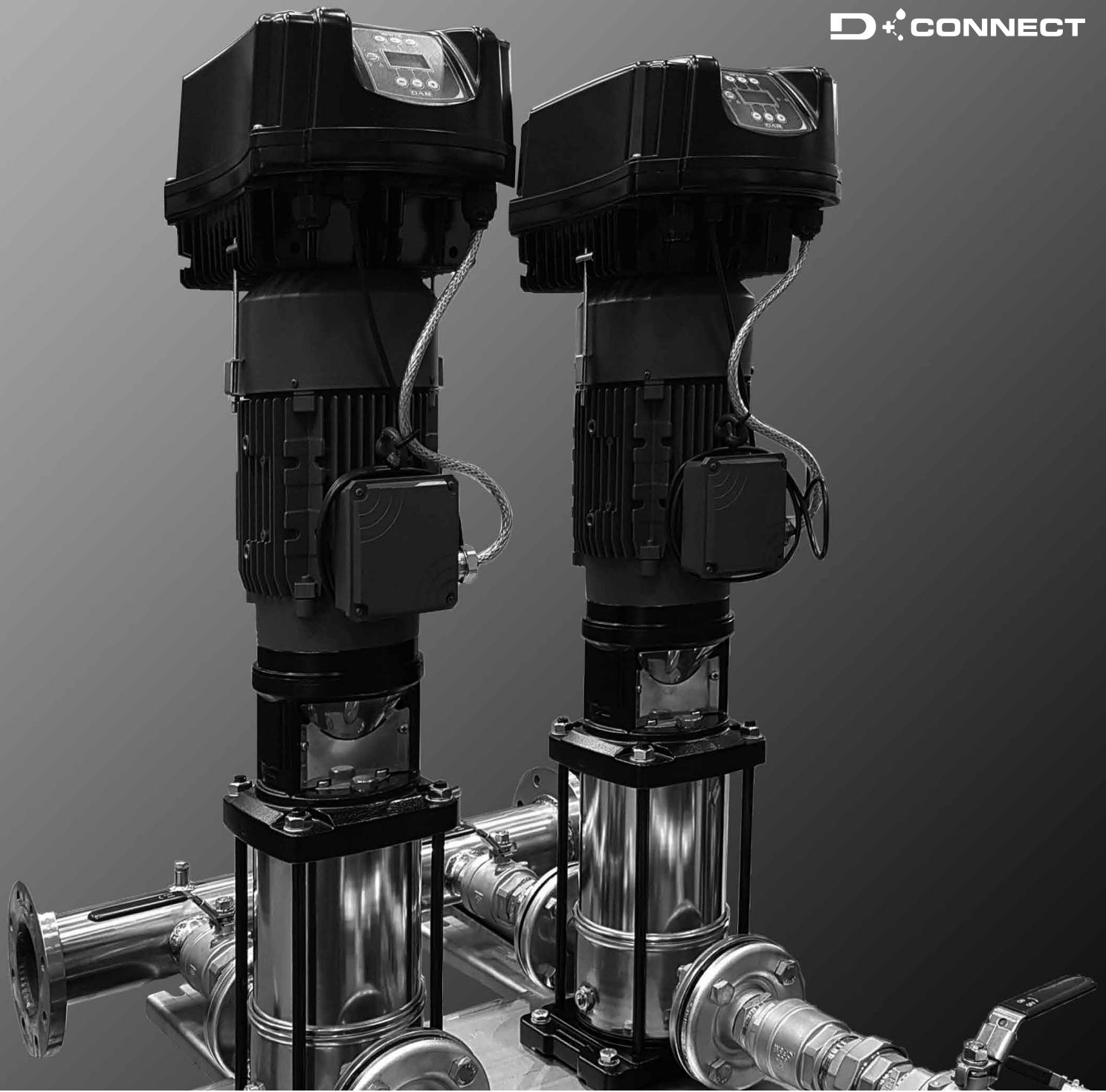


1/2/3/4 NKVE WITH MCE-P

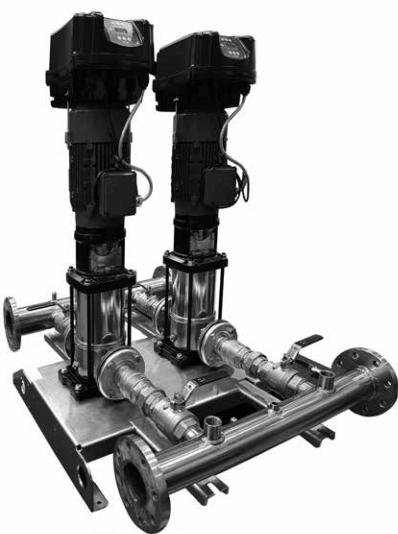
CONSTANT PRESSURE BOOSTING UNITS
WITH INTEGRATED MULTI INVERTER SYSTEM

D+CONNECT



1/2/3/4 NKVE 10 - 15 - 20 - 32 - 45 MCE/P

CONSTANT PRESSURE SETS WITH MCE/P MULTI INVERTER SYSTEM ON THE PUMP



TECHNICAL DATA

Flow rate minum and maximum: From 0,5 m³/h up to 280 m³/h

Head up to: 140 m

Type of pumped liquid : Clean, free of solids and abrasive substances, non-viscous, non-aggressive, non-crystallized and chemically neutral

Min. and max. supported liquid temperature: From +0°C to 120°C (+80°C with expansion vessel)

Maximum ambient temperature: +50°C

Maximum operating pressure bar / kPa: 16 bar / 1600 kPa

Class of protection: IP 55

Motor insulation class: F

Impeller/s material: AISI 304 stainless steel

Single phase power input: Contact our sales network

Three phase power input: 3x230 V 50 Hz / 3x400 V 50 Hz

Special versions on request: Available with different types of mechanical seals for aggressive liquids and connections (round, oval, Victaulic, clamp flanges), with parts in contact with the liquid in AISI 316 stainless steel (X versions), other voltages and frequencies, ATEX version.

1, 2, 3, 4 NKVE 10, 15, 20, 32, 45 MCE-P are variable pressure units for residential building service and commercial building service. Galvanized steel base. They can also be used in agriculture and in watering systems.

There are 1, 2, 3 or 4 multi-impeller vertical centrifugal pumps with coupling with MCE-P variable frequency drive installed as standard. One control unit and one pressure sensor per units. Delivery check valve and expansion vessel for each pump. Suction and delivery manifolds in AISI 304 stainless steel. Possibility of remote control thanks to the D.Connect service (D.Connect Box supplied separately). The units are supplied assembled, set up and tested directly in the factory and complete with installation and maintenance instructions and test report of the test.

CONSTRUCTION FEATURES OF THE PUMP

The NKVE 10 S, 15 S and 20 S models have all the parts in contact with the liquid in stainless steel. Internal pump body, impellers and jacket in AISI 304 steel, diffusers in technopolymer. Removable mechanical seal in silicon carbide-graphite. It is possible to remove it without removing the motor, starting from the 5.5 kW models.

The NKV 32 and 45 versions have the impellers, diffusers and jacket in AISI 304 stainless steel. Pump body and sealing port in cataphorized cast iron. Mechanical seal in removable silicon carbide-graphite without removing the motor starting from the 5.5 kW models. Available on request version X with materials in contact with water in AISI 316 stainless steel.

CONSTRUCTION FEATURES OF THE MOTOR

Air-cooled asynchronous normalized motor. Shaft in AISI 431 stainless steel. IE3 electric motors.

CONSTRUCTION FEATURES OF THE ELECTRONIC

The use of the MCE-P variable frequency drive has many advantages: better comfort thanks to the constant pressure at the variation of demand (pressure sensor installed as standard), increased efficiency, energy savings, protection from water hammering effects. Simpler configuration thanks to the display. It makes it possible to set a setpoint in case of units with several pumps (each with MCE-P inverter), or to start a different pump at each restart or at set intervals. It must be installed on the motor fan cover to take advantage of its cooling capabilities.

The MCE-P continuously adjusts the rotation speed of the electric pump, keeping the pressure constant, even when the flow rate varies.

In the units when the first pump has reached the maximum speed the others are added in cascade compensating the pressure fluctuations of the system.

When a setting pressure data "SP" is set on an MCE-P this is automatically propagated to all the other within the units.

Possibility of remote control thanks to the D.Connect service (D.Connect Box supplied separately).

MATERIAL TABLE SELECTION

| PUMP MODEL | IMPELLER / DIFFUSER | BASE | FLANGES |
|---|---------------------|-----------|-----------|
| NKV 32, 45, 65, 95 | Inox 304 | Cast iron | Cast iron |
| NKV 1, 3, 6, 10, 15, 20 S | Inox 304 | Inox 304 | Inox 304 |
| NKV 1, 3, 6, 10, 15, 20, 32, 45, 65, 95 X | Inox 316 | Inox 316 | Inox 316 |

LIQUID TABLE SELECTION

Type of mechanical seal (E1=STANDARD)

E1=BQGE=Carbon/Silicon carbide/AISI 316/EPDM STD
 E2=QQGE=Silicon Carbide/Silicon Carbide/AISI 316/EPDM
 V3=QQGV=Silicon Carbide/Silicon Carbide/AISI 316/FKM-Viton
 V4=BQGV= Carbon/Silicon carbide /AISI 316/ FKM-Viton
 E5=UUGE=Tungsten carbide/Tungsten carbide/AISI 316/EPDM

| LIQUID (WATER SOLUTION) | CONCENTRATION [%] | MIN/MAX TEMPERATURE [°C] | NKV MODEL | | |
|--------------------------------|-------------------|--------------------------|----------------------|--------------|--------------|
| | | | STANDARD (NKV 32-95) | S (NKV 1-20) | X (NKV 1-95) |
| Acetic acid | 10 ÷ 40 | +0/+70 | - | - | E1 |
| Citric Acid | 5 | +5/+70 | - | E1 | E1 |
| Hydrochloric Acid | 2 | +5/+25 | - | - | V3 |
| Formic Acid | 5 | +5/+25 | - | E1 | E1 |
| Phosphoric Acid | 10 | +5/+30 | - | - | E1 |
| Nitric Acid | 40 | +5/+30 | - | V3 | V3 |
| Sulfuric Acid | 2 | +5/+25 | - | - | V4 |
| Tannic Acid | 20 | +5/+50 | - | - | E1 |
| Tartaric Acid | 50 | +5/+25 | - | V3 | V3 |
| Deionized Water, Demineralized | 100 | +5/+110 | E1 | E1 | E1 |
| Sodium Bicarbonate | 6 | +5/+60 | - | - | E1 |
| Chloroform | 100 | -10/+30 | V4 | V4 | V4 |
| Oil In Water Emulsion | 100 | +15/+90 | V4 | V4 | V4 |
| Phosphates, Polyphosphates | 10 | +5/+90 | - | V3 | V3 |
| Ethylene Glycol | 10 ÷ 30 | -15/+120 | - | E1 | E1 |
| Propylene Glycol | 30 | -10/+100 | V3 | V3 | V3 |
| Sodium Hypochlorite | 1 | +5/+25 | - | - | V3 |
| Sodium Nitrate | 10 | +5/+60 | - | V3 | V3 |
| Diathermic Oil | 100 | +90/+120 | V4 | V4 | V4 |
| Mineral Oil | 100 | +90/+120 | V4 | V4 | V4 |
| Vegetable Oil | 100 | +70/+100 | E1 | E1 | E1 |
| Perchlorethylene | 100 | -10/+30 | V4 | V4 | V4 |
| Sodium Hydroxide | 25 | +5/+70 | E2 | E2 | E2 |
| Aluminium Sulphate | 10 ÷ 25 | +5/+50 | - | - | E2 |
| Ammonium Sulphate | 10 | -10/+60 | - | - | E2 |
| Ferric Sulphate | 10 | +5/+30 | - | - | E1 |
| Trichloroethylene | 100 | -10/+40 | V4 | V4 | V4 |

For use with sea water, please consult the technical office. This table should be considered a general guide.

It is important to consider the specific operating conditions, in particular the concentration in the pumped liquid, the specific weight and/or the viscosity, the temperature of the liquid and its pressure.

All these conditions are essential for engine and pump performance.

When pumping hazardous liquids, it is recommended to take safety precautions. You can contact us for more information.

MCE/P INVERTER

MCE-P

CONSTRUCTION FEATURES OF THE ELECTRONICS: MCE/P INVERTER

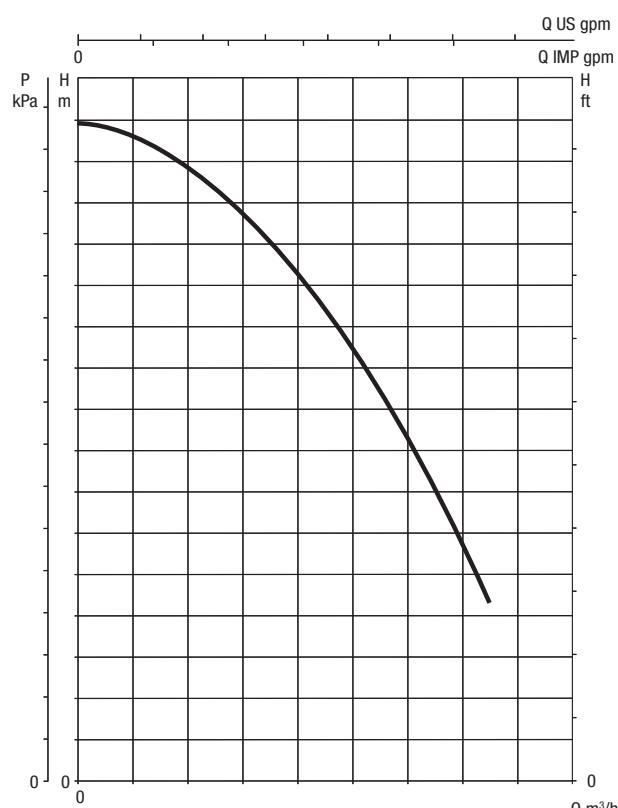
The inverter continuously adjusts the rotation speed of the electric pump, keeping the pressure constant, even when the flow rate varies. The other electric pumps, also with variable speed, are activated in cascade after the first one has reached maximum speed. Through modulation, they compensate the pressure fluctuations of the system.

For every operating cycle, it is possible to switch the restart to a different pump, therefore ensuring even use of all electric pumps.

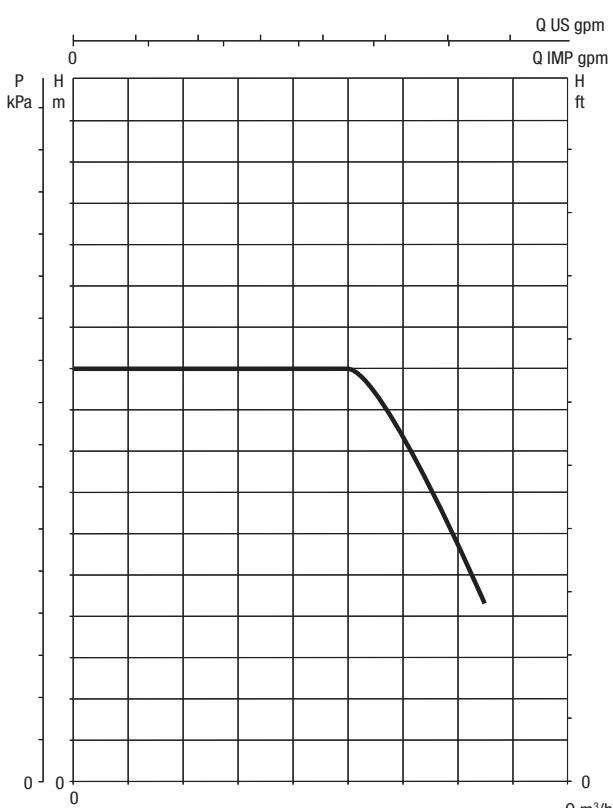
It is possible to set operation times for each individual pump, switching to another pump after such set times.

The "SP" pressure can be adjusted by the user using the "+" and "-" keys found on the MCE/P (as a rule, all the pumps are set to the same pressure value). With the new MCE/P, it is sufficient to set the data on one of the devices, and it will be automatically propagated to the other pumps of the system.

MODES OF OPERATION



PERFORMANCE CURVES WITHOUT INVERTER



PERFORMANCE CURVES WITH INVERTER

The inverter is capable of maintaining a constant pressure even when the flow rate varies.

The operating pressure can be adjusted by the user.

A good pressure set-point is between 1/3 and 2/3 of the maximum head of the electric pump. In this way, high efficient of the pump is maintained, together with maximum saving.

In addition, the MCE/P does not block the pump if the pressure is not reached, but the flow is present. This prevents service interruptions in case of high flows.



Only the MCE/P with D.Connect READY label are D.Connect compatible

D.CONNECT SERVICE

REMOTE CONTROL FOR ELECTRONIC RESIDENTIAL AND COMMERCIAL SYSTEMS

INTRODUCTION

The D.Connect service offers simple and intuitive remote control of your installation, without the need of a server or specialist personnel. With D.Connect, you can remotely manage your installations as if you were right in front of them.

Thanks to the system operation charts, you will also be able to optimise operation. You will also receive prompt notifications of any system faults.

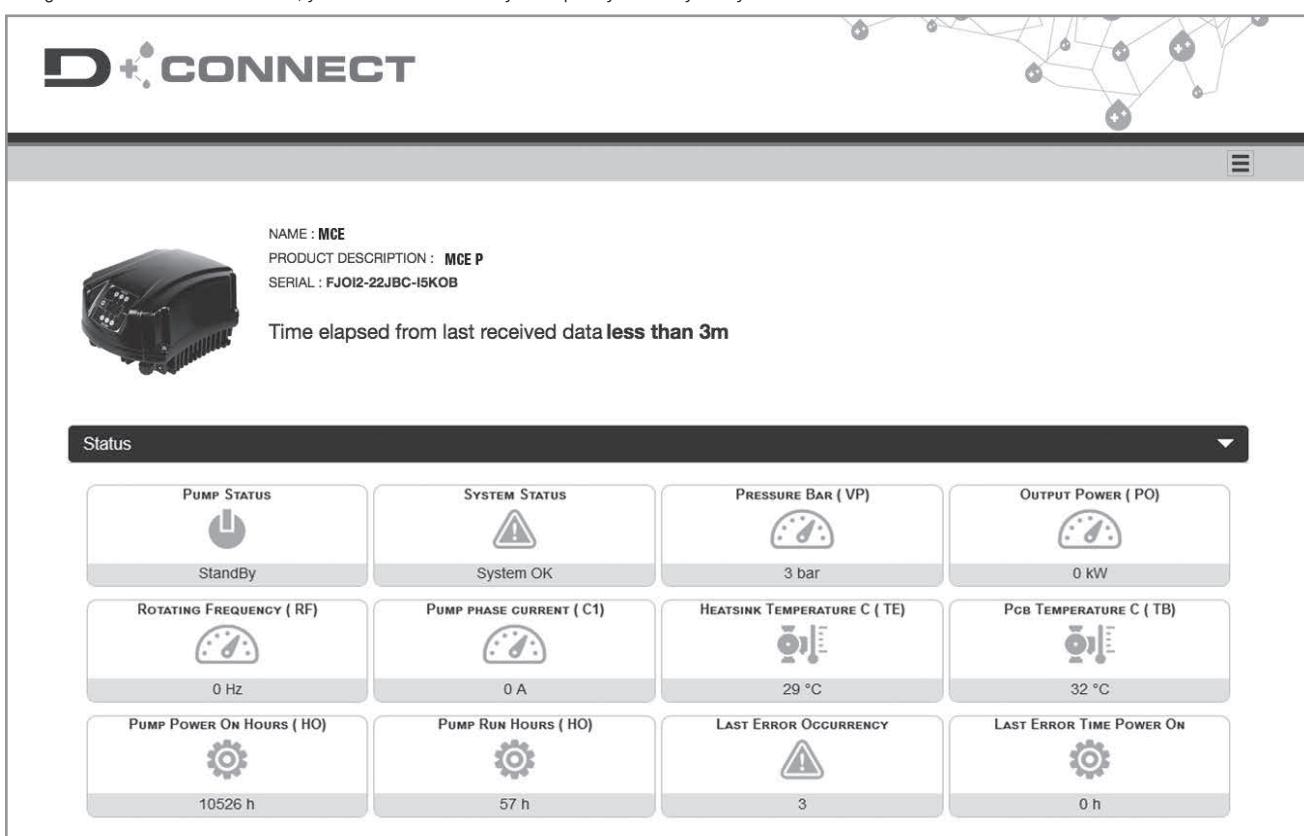
THE CONNECTIVITY SERVICE ALLOWS YOU TO: EASILY MONITOR YOUR SYSTEMS



The installations with green status are OK, while the orange ones need attention, and the red ones are experiencing problems

TAKE ANY NECESSARY ACTIONS AS IF YOU WERE RIGHT IN THE PUMP ROOM

Using the internet site or the APPs, you will be able to easily and quickly control your systems.



D.CONNECT SERVICE

REMOTE CONTROL FOR ELECTRONIC RESIDENTIAL AND COMMERCIAL SYSTEMS

Connect to the website: <https://dconnect.dabpumps.com>, using Internet Browsers such as Microsoft Edge or Google Chrome.
The Android and iOS D.Connect APPs can be downloaded from the relevant Stores:



In order to use the D.Connect service, registration and connected products are required.

REMOTE ALARMS

In case of alarm, the D.Connect service will promptly send you a notification, so that you can check what is happening and organise a visit to the system before the issue becomes an emergency for your customer.

WHAT PRODUCTS CAN YOU MANAGE USING THE D.CONNECT SERVICE?

MCE/P, AD AC, Active driver Plus, E.box, Evoplus, E.sybox, E.sybox mini.

WHAT DO YOU NEED TO USE THE SERVICE?

1. D.Connect Box
2. Cables for the connection of the D.Connect Box to the products to control
3. One or more compatible products
4. An internet connection in the system to control

For more information visit: <https://dconnect.dabpumps.com/getstarted>

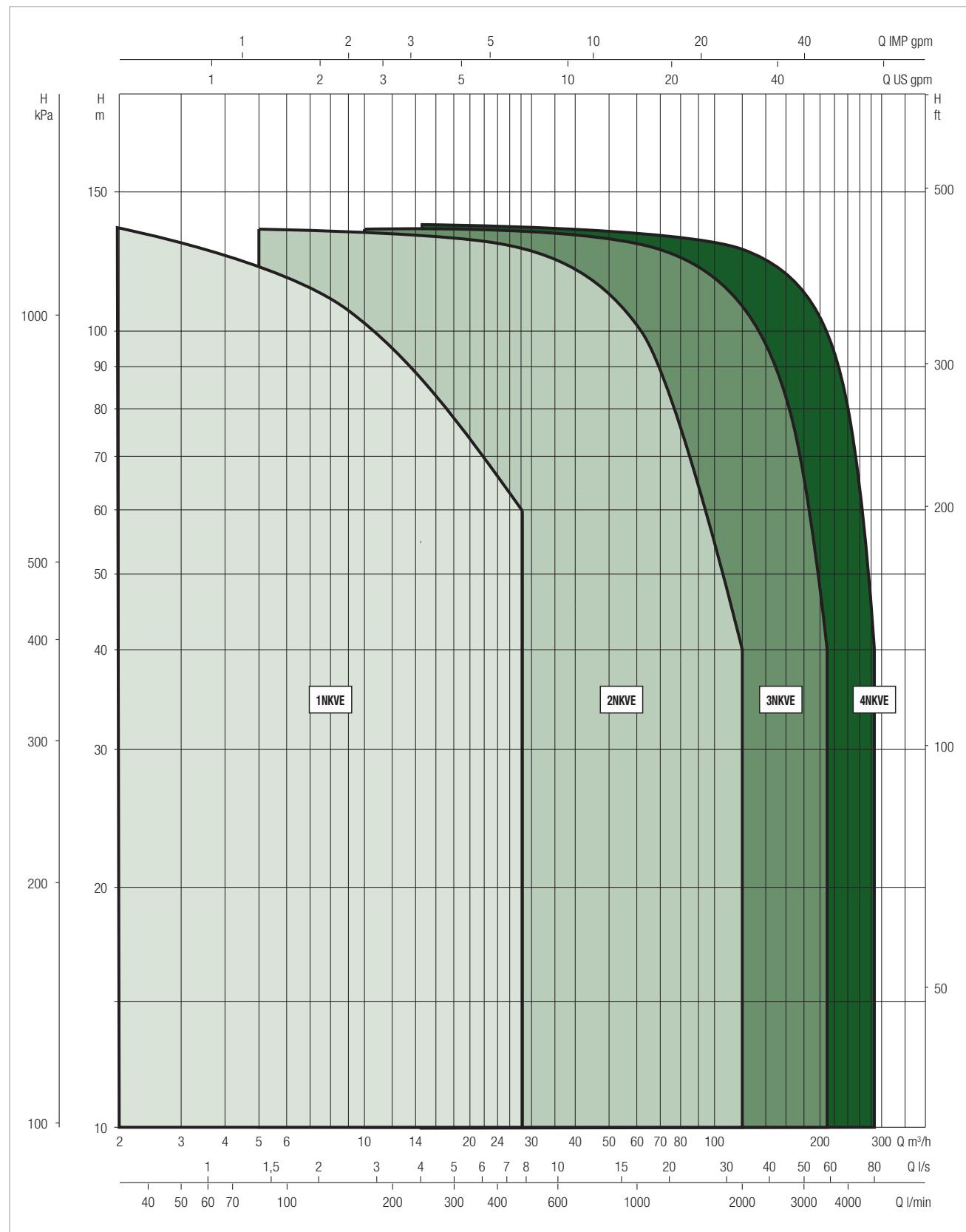
GAMMA 1/2/3/4 NKVE 10 - 15 - 20 - 32 - 45 MCE/P

VERTICAL AXIS MULTISTAGE CENTRIFUGAL PUMPS WITH MCE/P INVERTER

PERFORMANCE RANGE

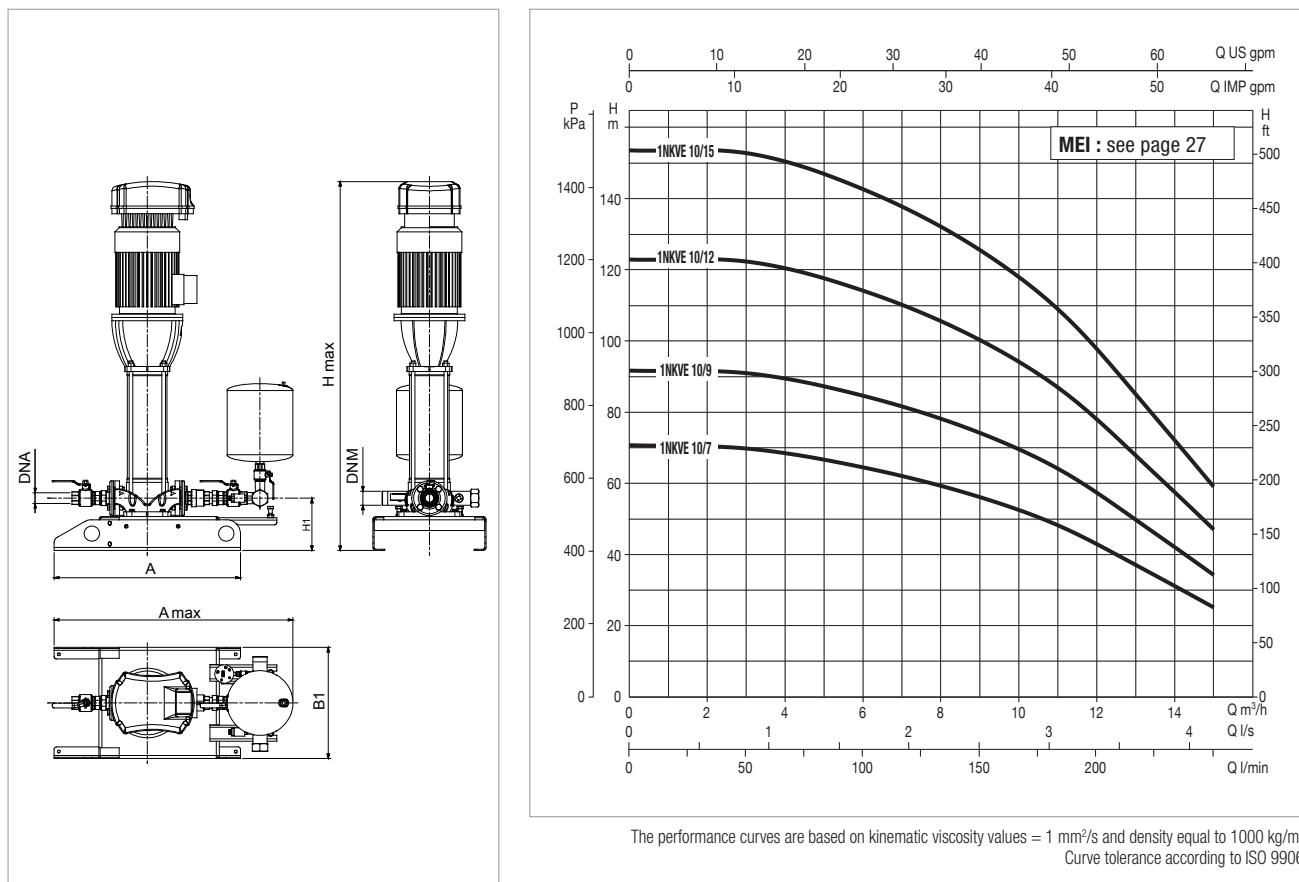
The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

GRAPHICAL SELECTION TABLE



1 NKVE 10 -MCE/P - CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h

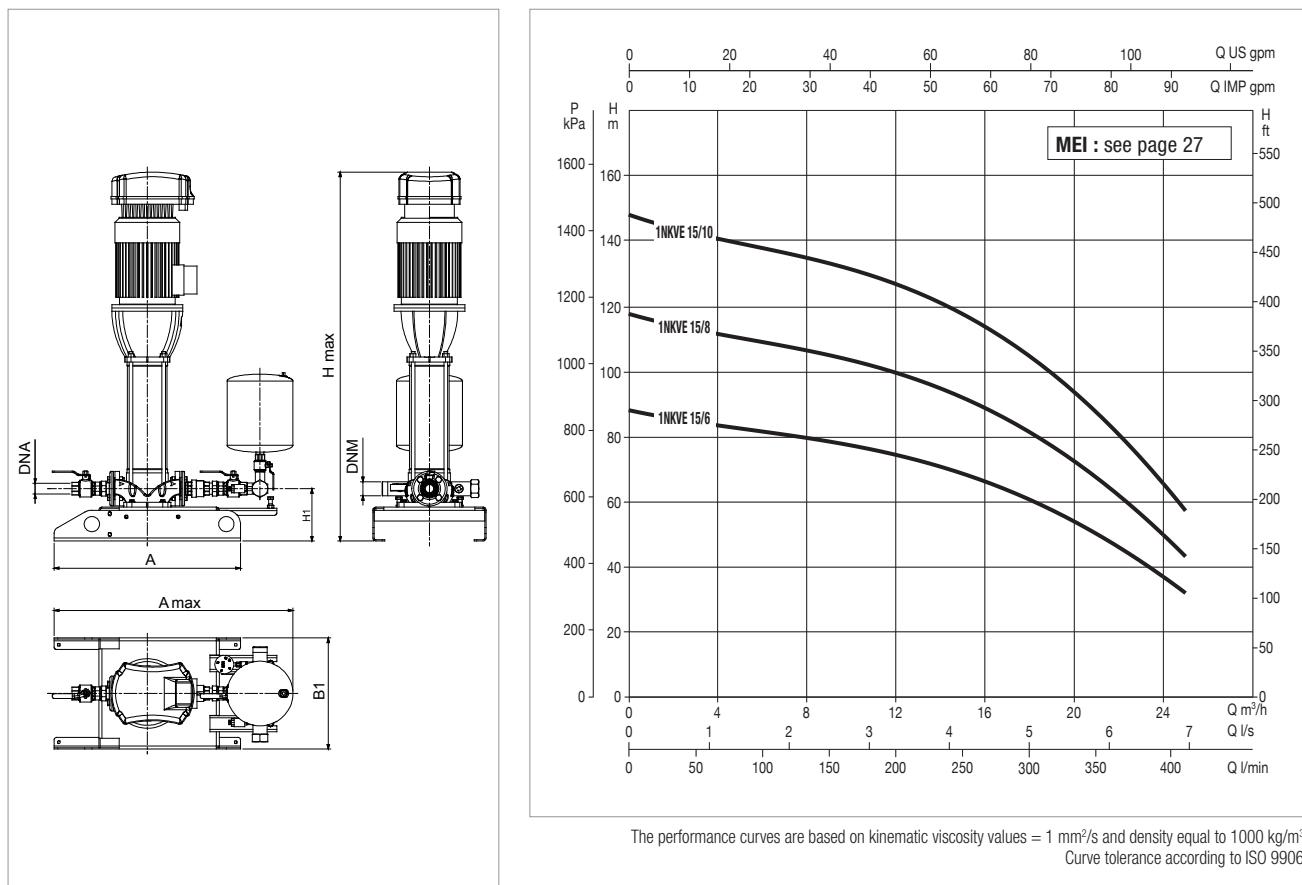


| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|-----------------------------|------------------------------|------------|-----|---------|----------------|---|--------------------------------|--------------------------|
| | | kW | HP | | | | | |
| 1 NKVE 10/7 S T MCE 400-50 | 3 x 400 V ~ | 2,2 | 3 | 5,4 | MCE 30/P | 13 | 7 | 6 |
| 1 NKVE 10/9 S T MCE 400-50 | 3 x 400 V ~ | 3 | 4 | 7,37 | MCE 30/P | 13 | 9 | 7,7 |
| 1 NKVE 10/12 S T MCE 400-50 | 3 x 400 V ~ | 4 | 5,5 | 10,1 | MCE 30/P | 13 | 12 | 10 |
| 1 NKVE 10/15 S T MCE 400-50 | 3 x 400 V ~ | 5,5 | 7,5 | 13,1 | MCE 55/P | 13 | 14 | 10 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|-----------------------------|-----|----------|---|-----|---|---|-----|----|----------|------|-----|--------------------|------|------|--------------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 1 NKVE 10/7 S T MCE 400-50 | 790 | 1012 | - | 480 | - | - | 226 | - | 1310 | 1" ½ | 2" | 1440 | 1040 | 2113 | 115 |
| 1 NKVE 10/9 S T MCE 400-50 | 790 | 1012 | - | 480 | - | - | 226 | - | 1419 | 1" ½ | 2" | 1440 | 1040 | 2113 | 123 |
| 1 NKVE 10/12 S T MCE 400-50 | 790 | 1012 | - | 480 | - | - | 226 | - | 1509 | 1" ½ | 2" | 1440 | 1040 | 2113 | 137 |
| 1 NKVE 10/15 S T MCE 400-50 | 790 | 1012 | - | 480 | - | - | 226 | - | 1796 | 1" ½ | 2" | 1440 | 1040 | 2113 | 150 |

1 NKVE 15 -MCE/P - CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h

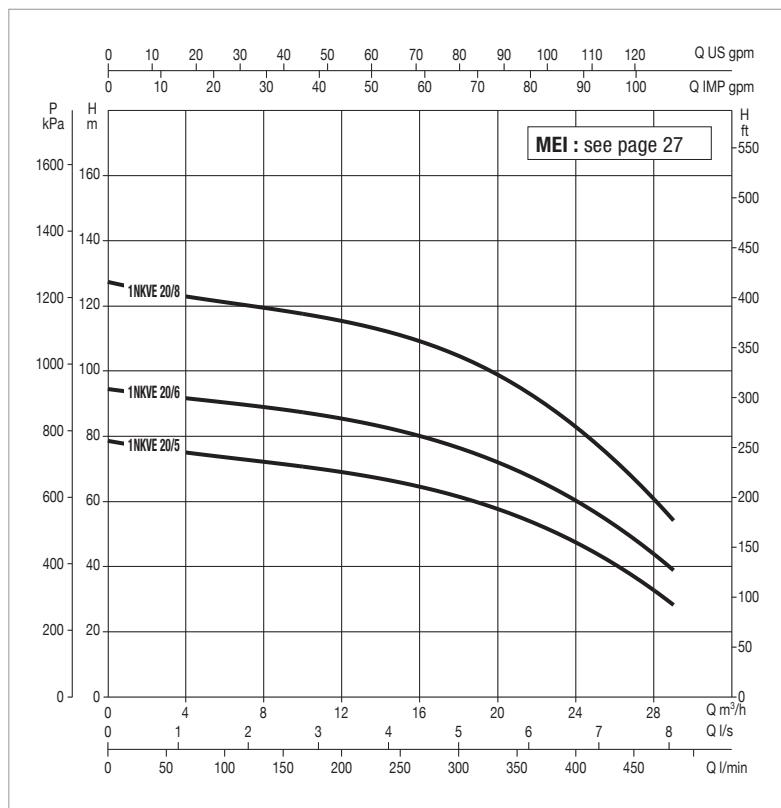
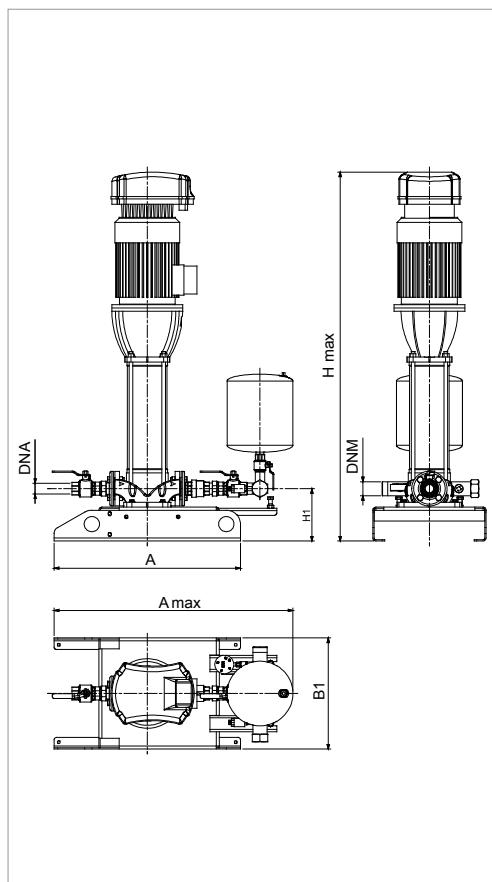


| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|-----------------------------|------------------------------|------------|-----|---------|----------------|---|--------------------------------|--------------------------|
| | | kW | HP | | | | | |
| 1 NKVE 15/6 S T MCE 400-50 | 3 x 400 V ~ | 5,5 | 7,5 | 13,1 | MCE 55/P | 24 | 7,5 | 6,5 |
| 1 NKVE 15/8 S T MCE 400-50 | 3 x 400 V ~ | 7,5 | 10 | 17,6 | MCE 55/P | 24 | 11 | 10 |
| 1 NKVE 15/10 S T MCE 400-50 | 3 x 400 V ~ | 11 | 15 | 25,5 | MCE 110/P | 24 | 13 | 12 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|-----------------------------|-----|----------|---|-----|---|---|-----|----|----------|-----|--------|--------------------|------|------|--------------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 1 NKVE 15/6 S T MCE 400-50 | 790 | 1067 | - | 480 | - | - | 235 | - | 1669 | 2" | 2" 1/2 | 1440 | 1040 | 2113 | 160 |
| 1 NKVE 15/8 S T MCE 400-50 | 790 | 1067 | - | 480 | - | - | 235 | - | 1885 | 2" | 2" 1/2 | 1440 | 1040 | 2113 | 175 |
| 1 NKVE 15/10 S T MCE 400-50 | 790 | 1067 | - | 480 | - | - | 235 | - | 2076 | 2" | 2" 1/2 | 1440 | 1040 | 2113 | 190 |

1 NKVE 20 -MCE/P - CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h



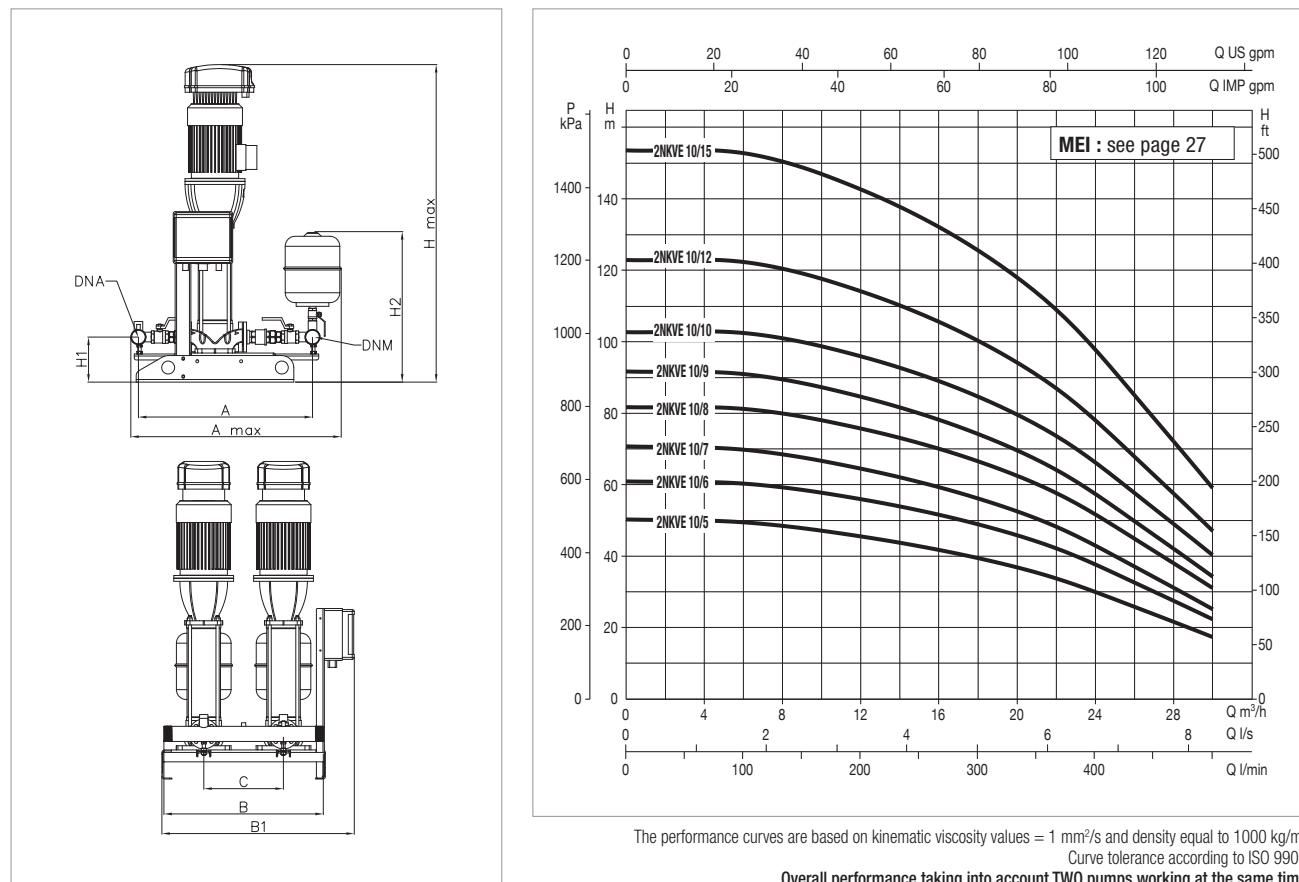
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³.
Curve tolerance according to ISO 9906.

| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|----------------------------|------------------------------|------------|-----|---------|----------------|---|--------------------------------|--------------------------|
| | | kW | HP | | | | | |
| 1 NKVE 20/5 S T MCE 400-50 | 3 x 400 V ~ | 5,5 | 7,5 | 13,1 | MCE 55/P | 29 | 7 | 6 |
| 1 NKVE 20/6 S T MCE 400-50 | 3 x 400 V ~ | 7,5 | 10 | 17,6 | MCE 55/P | 29 | 8,5 | 7,5 |
| 1 NKVE 20/8 S T MCE 400-50 | 3 x 400 V ~ | 11 | 15 | 25,5 | MCE 110/P | 29 | 11,5 | 10 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|----------------------------|-----|----------|---|-----|---|---|-----|----|----------|-----|--------|--------------------|------|------|--------------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 1 NKVE 20/5 S T MCE 400-50 | 790 | 1067 | - | 480 | - | - | 235 | - | 1620 | 2" | 2" 1/2 | 1440 | 1040 | 2113 | 165 |
| 1 NKVE 20/6 S T MCE 400-50 | 790 | 1067 | - | 480 | - | - | 235 | - | 1789 | 2" | 2" 1/2 | 1440 | 1040 | 2113 | 200 |
| 1 NKVE 20/8 S T MCE 400-50 | 790 | 1067 | - | 480 | - | - | 235 | - | 1979 | 2" | 2" 1/2 | 1440 | 1040 | 2113 | 220 |

2 NKVE 10 -MCE/P - CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h

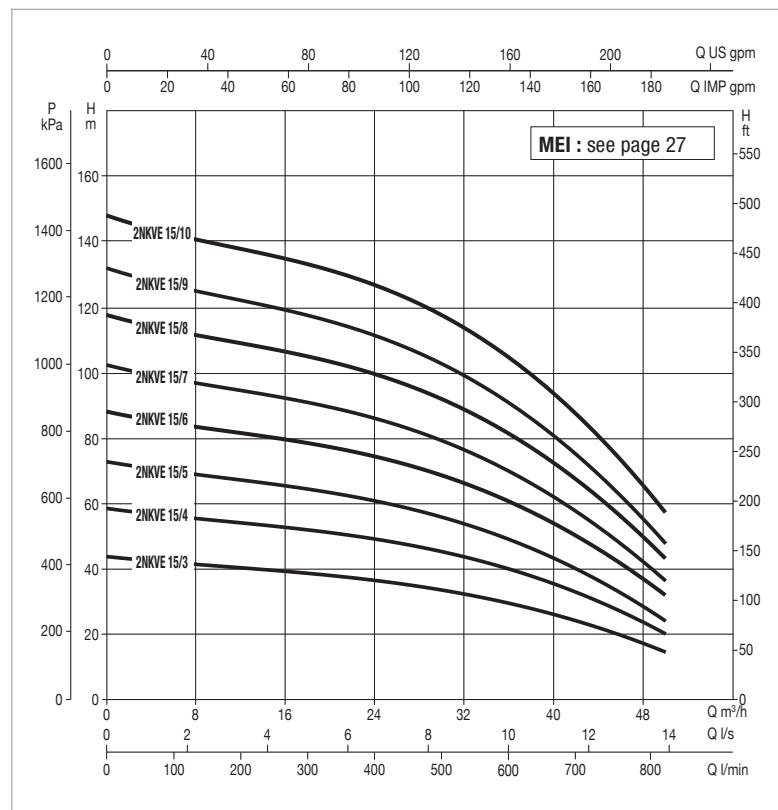
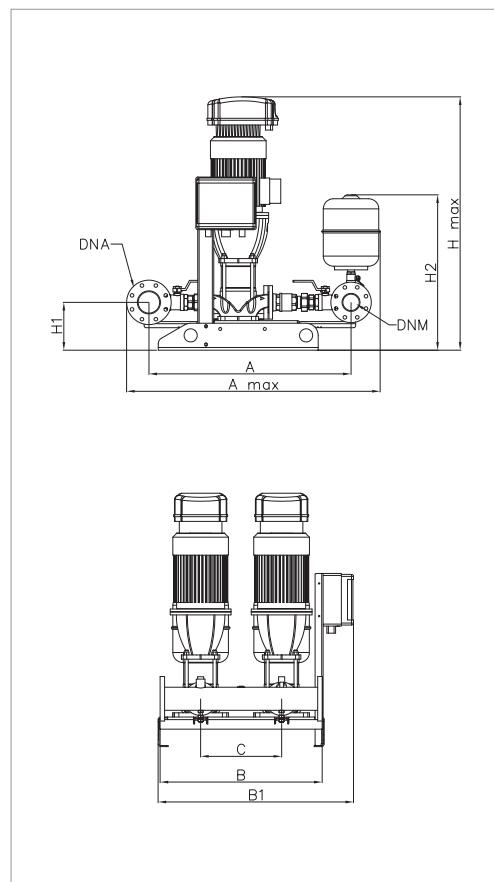


| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|-----------------------------|---------------------------|------------|-------|--------|-------------|-------------------------------------|-----------------------------|-----------------------|
| | | kW | HP | | | | | |
| 2 NKVE 10/5 S T MCE 400-50 | 3 x 400 V ~ | 2x1,5 | 2x2 | 2x4,9 | MCE 30/P | 26 | 5 | 4 |
| 2 NKVE 10/6 S T MCE 400-50 | 3 x 400 V ~ | 2x2,2 | 2x3 | 2x5,4 | MCE 30/P | 26 | 6 | 5 |
| 2 NKVE 10/7 S T MCE 400-50 | 3 x 400 V ~ | 2x2,2 | 2x3 | 2x5,4 | MCE 30/P | 26 | 7 | 6 |
| 2 NKVE 10/8 S T MCE 400-50 | 3 x 400 V ~ | 2x3 | 2x4 | 2x7,37 | MCE 30/P | 26 | 8 | 6,5 |
| 2 NKVE 10/9 S T MCE 400-50 | 3 x 400 V ~ | 2x3 | 2x4 | 2x7,37 | MCE 30/P | 26 | 9 | 7,7 |
| 2 NKVE 10/10 S T MCE 400-50 | 3 x 400 V ~ | 2x4 | 2x5,5 | 2x10,1 | MCE 30/P | 26 | 10 | 8,5 |
| 2 NKVE 10/12 S T MCE 400-50 | 3 x 400 V ~ | 2x4 | 2x5,5 | 2x10,1 | MCE 30/P | 26 | 12 | 10 |
| 2 NKVE 10/15 S T MCE 400-50 | 3 x 400 V ~ | 2x5,5 | 2x7,5 | 2x13,1 | MCE 55/P | 26 | 14 | 10 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|-----------------------------|-----|-------|-----|-----|-----|---|-----|-----|-------|------|------|--------------------|------|------|-----------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 2 NKVE 10/5 S T MCE 400-50 | 875 | 1060 | 800 | 965 | 400 | - | 226 | 755 | 1255 | 2" ½ | 2" ½ | 2150 | 1000 | 1400 | 186 |
| 2 NKVE 10/6 S T MCE 400-50 | 875 | 1060 | 800 | 965 | 400 | - | 226 | 755 | 1285 | 2" ½ | 2" ½ | 2150 | 1000 | 1400 | 187 |
| 2 NKVE 10/7 S T MCE 400-50 | 875 | 1060 | 800 | 965 | 400 | - | 226 | 755 | 1314 | 2" ½ | 2" ½ | 2150 | 1000 | 1400 | 214 |
| 2 NKVE 10/8 S T MCE 400-50 | 875 | 1060 | 800 | 965 | 400 | - | 226 | 755 | 1393 | 2" ½ | 2" ½ | 2150 | 1000 | 1400 | 216 |
| 2 NKVE 10/9 S T MCE 400-50 | 875 | 1060 | 800 | 965 | 400 | - | 226 | 755 | 1423 | 2" ½ | 2" ½ | 2150 | 1000 | 1400 | 218 |
| 2 NKVE 10/10 S T MCE 400-50 | 875 | 1060 | 800 | 965 | 400 | - | 226 | 755 | 1453 | 2" ½ | 2" ½ | 2150 | 1000 | 1400 | 237 |
| 2 NKVE 10/12 S T MCE 400-50 | 875 | 1060 | 800 | 965 | 400 | - | 226 | 755 | 1513 | 2" ½ | 2" ½ | 2150 | 1000 | 1400 | 240 |
| 2 NKVE 10/15 S T MCE 400-50 | 875 | 1060 | 800 | 965 | 400 | - | 226 | 755 | 1800 | 2" ½ | 2" ½ | 2150 | 1000 | 1400 | 298 |

2 NKVE 15 -MCE/P - CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h



The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³.
Curve tolerance according to ISO 9906.

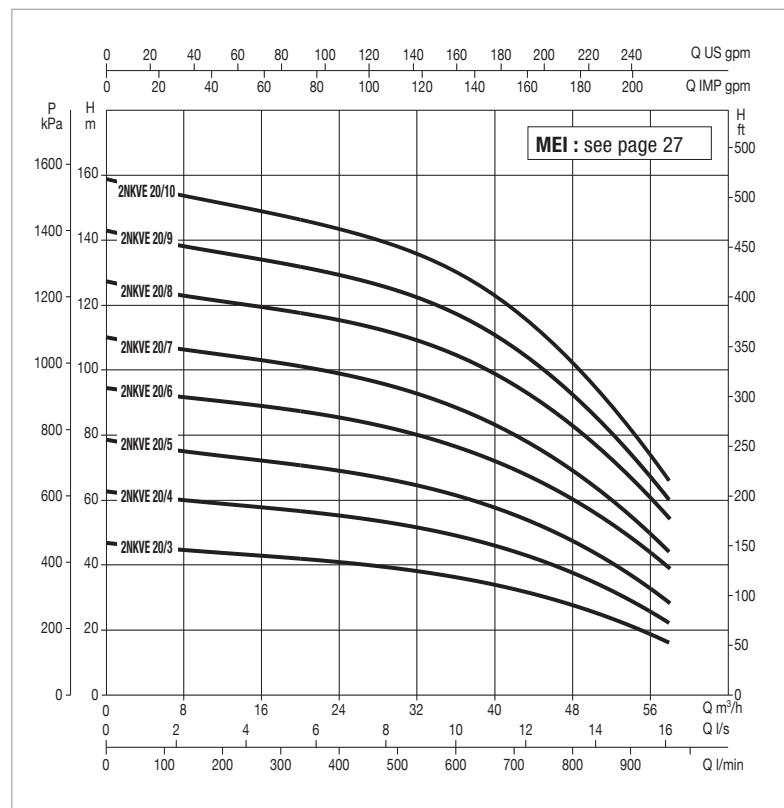
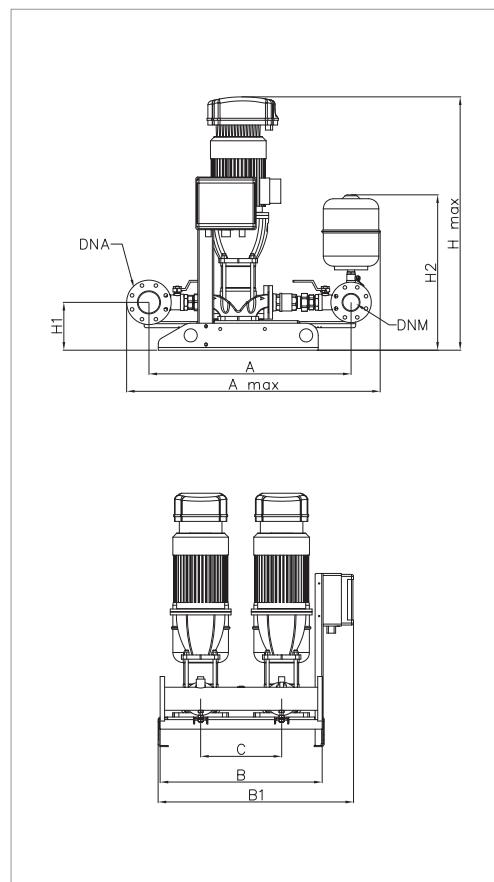
Overall performance taking into account TWO pumps working at the same time.

| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|-----------------------------|---------------------------|------------|-------|--------|-------------|-------------------------------------|-----------------------------|-----------------------|
| | | kW | HP | | | | | |
| 2 NKVE 15/3 S T MCE 400-50 | 3 x 400 V ~ | 2x3 | 2x4 | 2x7,37 | MCE 30/P | 48 | 4 | 3,5 |
| 2 NKVE 15/4 S T MCE 400-50 | 3 x 400 V ~ | 2x4 | 2x5,5 | 2x10,1 | MCE 30/P | 48 | 5 | 4 |
| 2 NKVE 15/5 S T MCE 400-50 | 3 x 400 V ~ | 2x4 | 2x5,5 | 2x10,1 | MCE 30/P | 48 | 6,5 | 5 |
| 2 NKVE 15/6 S T MCE 400-50 | 3 x 400 V ~ | 2x5,5 | 2x7,5 | 2x13,1 | MCE 55/P | 48 | 7,5 | 6,5 |
| 2 NKVE 15/7 S T MCE 400-50 | 3 x 400 V ~ | 2x5,5 | 2x7,5 | 2x13,1 | MCE 55/P | 48 | 9 | 8 |
| 2 NKVE 15/8 S T MCE 400-50 | 3 x 400 V ~ | 2x7,5 | 2x10 | 2x17,6 | MCE 55/P | 48 | 11 | 10 |
| 2 NKVE 15/9 S T MCE 400-50 | 3 x 400 V ~ | 2x7,5 | 2x10 | 2x17,6 | MCE 55/P | 48 | 12 | 11 |
| 2 NKVE 15/10 S T MCE 400-50 | 3 x 400 V ~ | 2x11 | 2x15 | 2x25,5 | MCE 110/P | 48 | 13 | 12 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|-----------------------------|------|-------|-----|-----|-----|---|-----|-----|-------|-----|-----|--------------------|------|------|-----------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 2 NKVE 15/3 S T MCE 400-50 | 1000 | 1255 | 800 | 965 | 400 | - | 236 | 770 | 1321 | 100 | 80 | 2150 | 1000 | 1400 | 238 |
| 2 NKVE 15/4 S T MCE 400-50 | 1000 | 1255 | 800 | 965 | 400 | - | 236 | 770 | 1369 | 100 | 80 | 2150 | 1000 | 1400 | 258 |
| 2 NKVE 15/5 S T MCE 400-50 | 1000 | 1255 | 800 | 965 | 400 | - | 236 | 770 | 1417 | 100 | 80 | 2150 | 1000 | 1400 | 261 |
| 2 NKVE 15/6 S T MCE 400-50 | 1000 | 1255 | 800 | 965 | 400 | - | 236 | 770 | 1674 | 100 | 80 | 2150 | 1000 | 1400 | 317 |
| 2 NKVE 15/7 S T MCE 400-50 | 1000 | 1255 | 800 | 965 | 400 | - | 236 | 770 | 1722 | 100 | 80 | 2150 | 1000 | 1400 | 319 |
| 2 NKVE 15/8 S T MCE 400-50 | 1000 | 1255 | 800 | 965 | 400 | - | 236 | 770 | 1892 | 100 | 80 | 2150 | 1000 | 1400 | 344 |
| 2 NKVE 15/9 S T MCE 400-50 | 1000 | 1255 | 800 | 965 | 400 | - | 236 | 770 | 1940 | 100 | 80 | 2150 | 1000 | 1400 | 347 |
| 2 NKVE 15/10 S T MCE 400-50 | 1000 | 1255 | 800 | 965 | 400 | - | 236 | 770 | 2084 | 100 | 80 | 2150 | 1000 | 1400 | 459 |

2 NKVE 20 -MCE/P - CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h



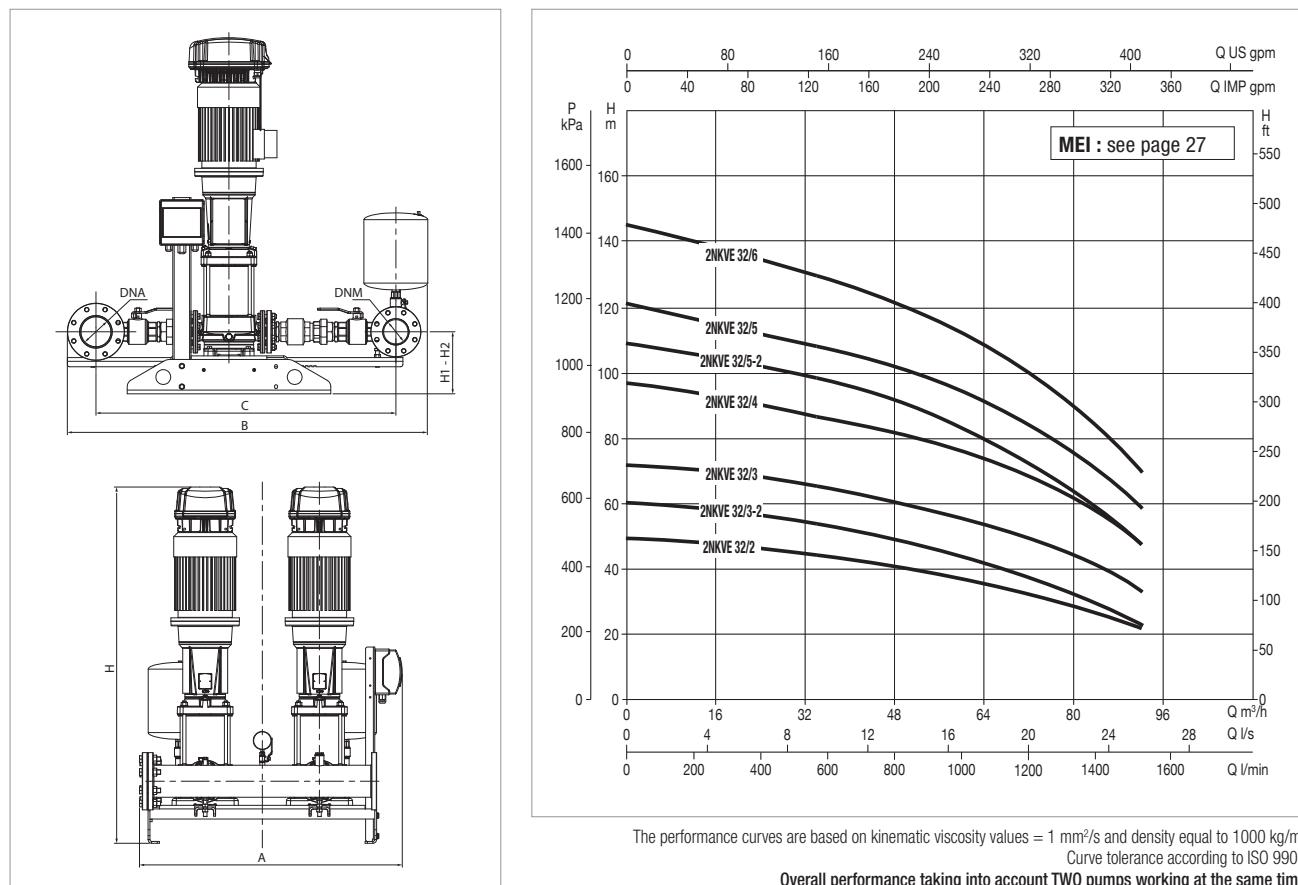
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³.
Curve tolerance according to ISO 9906.
Overall performance taking into account TWO pumps working at the same time.

| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|-----------------------------|---------------------------|------------|-------|---------|----------------|---|--------------------------------|--------------------------|
| | | kW | HP | | | | | |
| 2 NKVE 20/3 S T MCE 400-50 | 3 x 400 V ~ | 2x3 | 2x4 | 2x7,37 | MCE 30/P | 58 | 4 | 3,5 |
| 2 NKVE 20/4 S T MCE 400-50 | 3 x 400 V ~ | 2x4 | 2x5,5 | 2x10,1 | MCE 30/P | 58 | 6 | 5 |
| 2 NKVE 20/5 S T MCE 400-50 | 3 x 400 V ~ | 2x5,5 | 2x7,5 | 2x13,1 | MCE 55/P | 58 | 7 | 6 |
| 2 NKVE 20/6 S T MCE 400-50 | 3 x 400 V ~ | 2x7,5 | 2x10 | 2x17,6 | MCE 55/P | 58 | 8,5 | 7,5 |
| 2 NKVE 20/7 S T MCE 400-50 | 3 x 400 V ~ | 2x7,5 | 2x10 | 2x17,6 | MCE 55/P | 58 | 10 | 9 |
| 2 NKVE 20/8 S T MCE 400-50 | 3 x 400 V ~ | 2x11 | 2x15 | 2x25,5 | MCE 110/P | 58 | 11,5 | 10 |
| 2 NKVE 20/9 S T MCE 400-50 | 3 x 400 V ~ | 2x11 | 2x15 | 2x25,5 | MCE 110/P | 58 | 13 | 12 |
| 2 NKVE 20/10 S T MCE 400-50 | 3 x 400 V ~ | 2x11 | 2x15 | 2x25,5 | MCE 110/P | 58 | 14 | 13 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|-----------------------------|------|----------|-----|-----|-----|---|-----|-----|----------|-----|-----|--------------------|------|------|--------------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 2 NKVE 20/3 S T MCE 400-50 | 1000 | 1255 | 800 | 965 | 400 | - | 236 | 770 | 1321 | 100 | 80 | 2150 | 1000 | 1400 | 228 |
| 2 NKVE 20/4 S T MCE 400-50 | 1000 | 1255 | 800 | 965 | 400 | - | 236 | 770 | 1369 | 100 | 80 | 2150 | 1000 | 1400 | 256 |
| 2 NKVE 20/5 S T MCE 400-50 | 1000 | 1255 | 800 | 965 | 400 | - | 236 | 770 | 1626 | 100 | 80 | 2150 | 1000 | 1400 | 260 |
| 2 NKVE 20/6 S T MCE 400-50 | 1000 | 1255 | 800 | 965 | 400 | - | 236 | 770 | 1796 | 100 | 80 | 2150 | 1000 | 1400 | 284 |
| 2 NKVE 20/7 S T MCE 400-50 | 1000 | 1255 | 800 | 965 | 400 | - | 236 | 770 | 1844 | 100 | 80 | 2150 | 1000 | 1400 | 286 |
| 2 NKVE 20/8 S T MCE 400-50 | 1000 | 1255 | 800 | 965 | 400 | - | 236 | 770 | 1987 | 100 | 80 | 2150 | 1000 | 1400 | 350 |
| 2 NKVE 20/9 S T MCE 400-50 | 1000 | 1255 | 800 | 965 | 400 | - | 236 | 770 | 2035 | 100 | 80 | 2150 | 1000 | 1400 | 352 |
| 2 NKVE 20/10 S T MCE 400-50 | 1000 | 1255 | 800 | 965 | 400 | - | 236 | 770 | 2084 | 100 | 80 | 2150 | 1000 | 1400 | 374 |

2 NKVE 32 -MCE/P - CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h

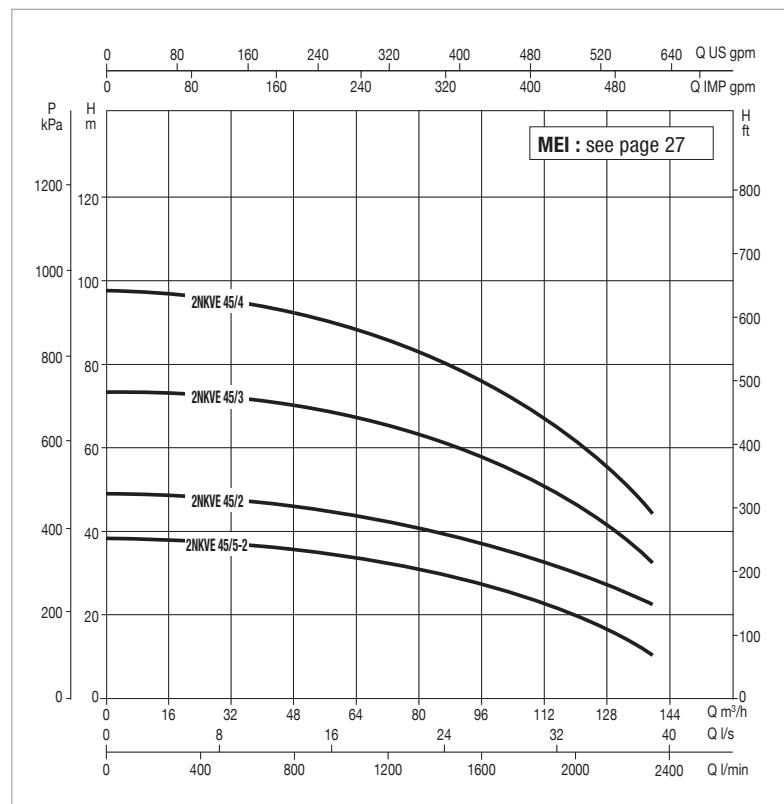
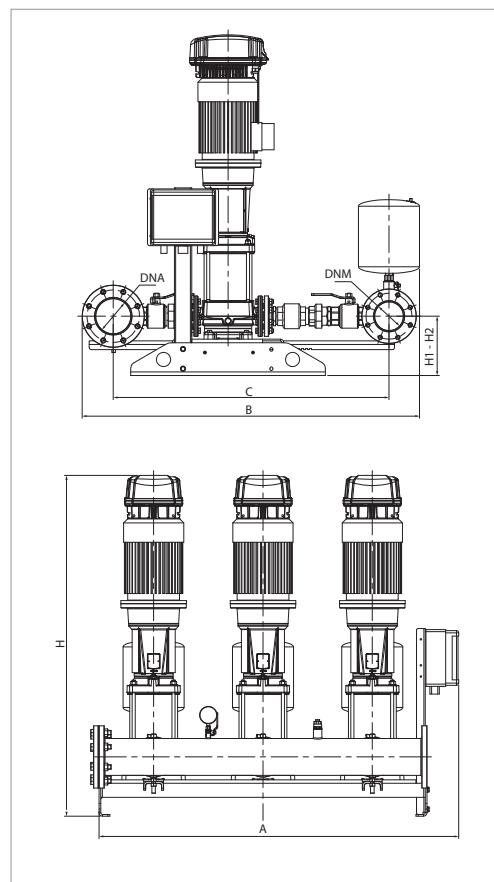


| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|----------------------------|---------------------------|------------|-------|---------|----------------|---|--------------------------------|--------------------------|
| | | kW | HP | | | | | |
| 2 NKVE 32/2 T MCE 400-50 | 3 x 400 V ~ | 2x5,5 | 2x7,5 | 2x13,1 | MCE 55/P | 90 | 4,8 | 4 |
| 2 NKVE 32/3-2 T MCE 400-50 | 3 x 400 V ~ | 2x5,5 | 2x7,5 | 2x13,1 | MCE 55/P | 90 | 6 | 5 |
| 2 NKVE 32/3 T MCE 400-50 | 3 x 400 V ~ | 2x7,5 | 2x10 | 2x17,6 | MCE 55/P | 90 | 7,3 | 6 |
| 2 NKVE 32/4 T MCE 400-50 | 3 x 400 V ~ | 2x11 | 2x15 | 2x25,5 | MCE 110/P | 90 | 9,8 | 8 |
| 2 NKVE 32/5-2 T MCE 400-50 | 3 x 400 V ~ | 2x11 | 2x15 | 2x25,5 | MCE 110/P | 90 | 10,9 | 9 |
| 2 NKVE 32/5 T MCE 400-50 | 3 x 400 V ~ | 2x15 | 2x20 | 2x34 | MCE 150/P | 90 | 12,2 | 10 |
| 2 NKVE 32/6 T MCE 400-50 | 3 x 400 V ~ | 2x15 | 2x20 | 2x34 | MCE 150/P | 90 | 14,6 | 12 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|----------------------------|------|----------|------|----|------|------|-----|-----|----------|-----|-----|--------------------|------|------|--------------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 2 NKVE 32/2 T MCE 400-50 | 1150 | - | 1575 | - | 1312 | 1476 | 271 | 271 | - | 125 | 100 | 1400 | 1800 | 2200 | 476 |
| 2 NKVE 32/3-2 T MCE 400-50 | 1150 | - | 1575 | - | 1312 | 1558 | 271 | 271 | - | 125 | 100 | 1400 | 1800 | 2200 | 484 |
| 2 NKVE 32/3 T MCE 400-50 | 1150 | - | 1575 | - | 1312 | 1558 | 271 | 271 | - | 125 | 100 | 1400 | 1800 | 2200 | 506 |
| 2 NKVE 32/4 T MCE 400-50 | 1150 | - | 1575 | - | 1312 | 1829 | 271 | 271 | - | 125 | 100 | 1400 | 1800 | 2200 | 616 |
| 2 NKVE 32/5-2 T MCE 400-50 | 1150 | - | 1575 | - | 1312 | 1911 | 271 | 271 | - | 125 | 100 | 1400 | 1800 | 2200 | 624 |
| 2 NKVE 32/5 T MCE 400-50 | 1150 | - | 1575 | - | 1312 | 1993 | 271 | 271 | - | 125 | 100 | 1400 | 1800 | 2200 | 652 |
| 2 NKVE 32/6 T MCE 400-50 | 1150 | - | 1575 | - | 1312 | 1993 | 271 | 271 | - | 125 | 100 | 1400 | 1800 | 2200 | 660 |

2 NKVE 45 -MCE/P - CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h



The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

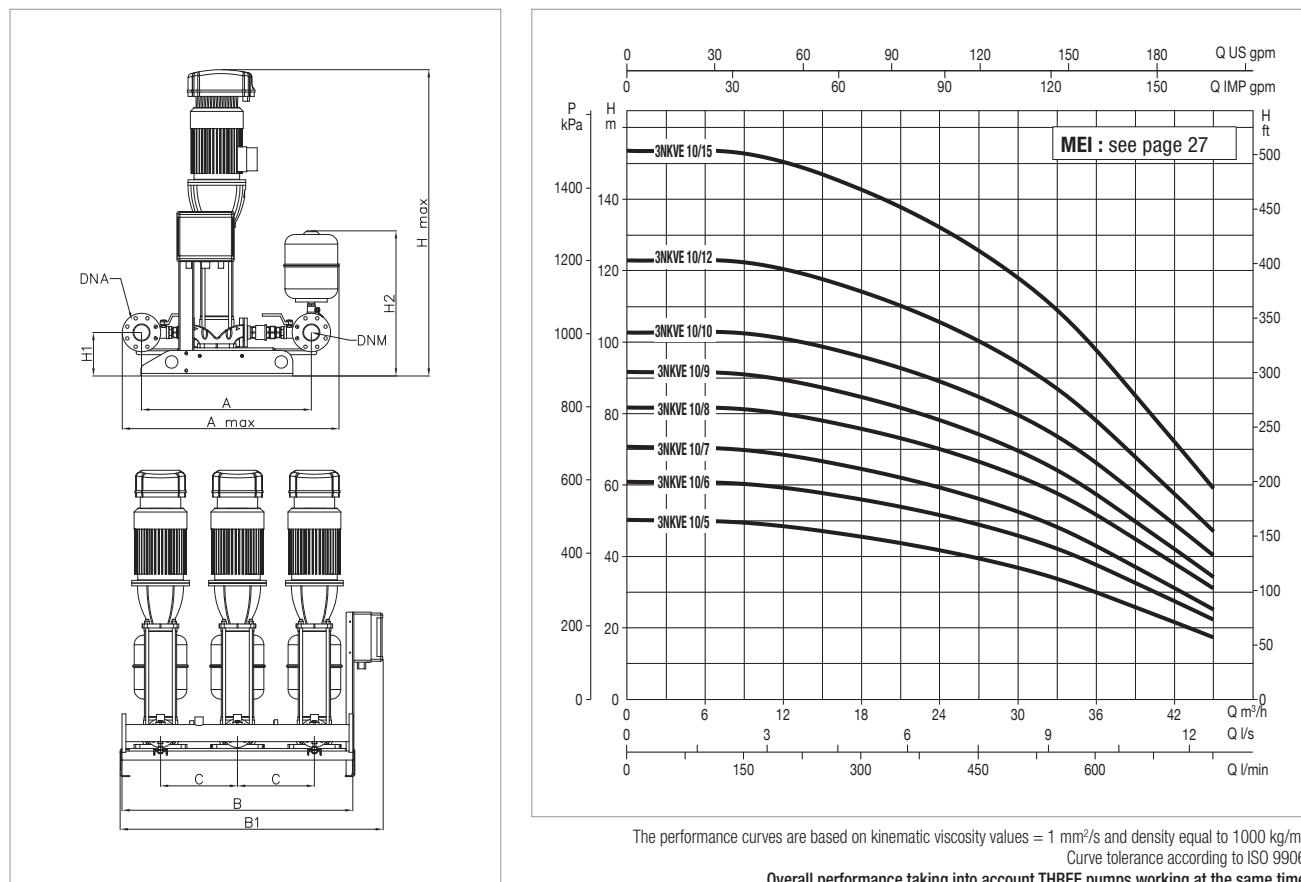
Overall performance taking into account TWO pumps working at the same time.

| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|----------------------------|---------------------------|------------|-------|--------|-------------|-------------------------------------|-----------------------------|-----------------------|
| | | kW | HP | | | | | |
| 2 NKVE 45/2-2 T MCE 400-50 | 3 x 400 V ~ | 2x5,5 | 2x7,5 | 2x13,1 | MCE 55/P | 140 | 3,8 | 3 |
| 2 NKVE 45/2 T MCE 400-50 | 3 x 400 V ~ | 2x7,5 | 2x10 | 2x17,6 | MCE 55/P | 140 | 4,8 | 4 |
| 2 NKVE 45/3 T MCE 400-50 | 3 x 400 V ~ | 2x11 | 2x15 | 2x25,5 | MCE 110/P | 140 | 7,3 | 6,5 |
| 2 NKVE 45/4 T MCE 400-50 | 3 x 400 V ~ | 2x15 | 2x20 | 2x34 | MCE 150/P | 140 | 9,7 | 8,5 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|----------------------------|------|-------|------|----|------|------|-----|-----|-------|-----|-----|--------------------|------|------|-----------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 2 NKVE 45/2-2 T MCE 400-50 | 1150 | - | 1622 | - | 1340 | 1515 | 271 | 271 | - | 150 | 125 | 1400 | 1800 | 2200 | 488 |
| 2 NKVE 45/2 T MCE 400-50 | 1150 | - | 1622 | - | 1340 | 1565 | 271 | 271 | - | 150 | 125 | 1400 | 1800 | 2200 | 510 |
| 2 NKVE 45/3 T MCE 400-50 | 1150 | - | 1622 | - | 1340 | 1782 | 271 | 271 | - | 150 | 125 | 1400 | 1800 | 2200 | 620 |
| 2 NKVE 45/4 T MCE 400-50 | 1150 | - | 1622 | - | 1340 | 1864 | 271 | 271 | - | 150 | 125 | 1400 | 1800 | 2200 | 656 |

3 NKVE 10 -MCE/P- CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h

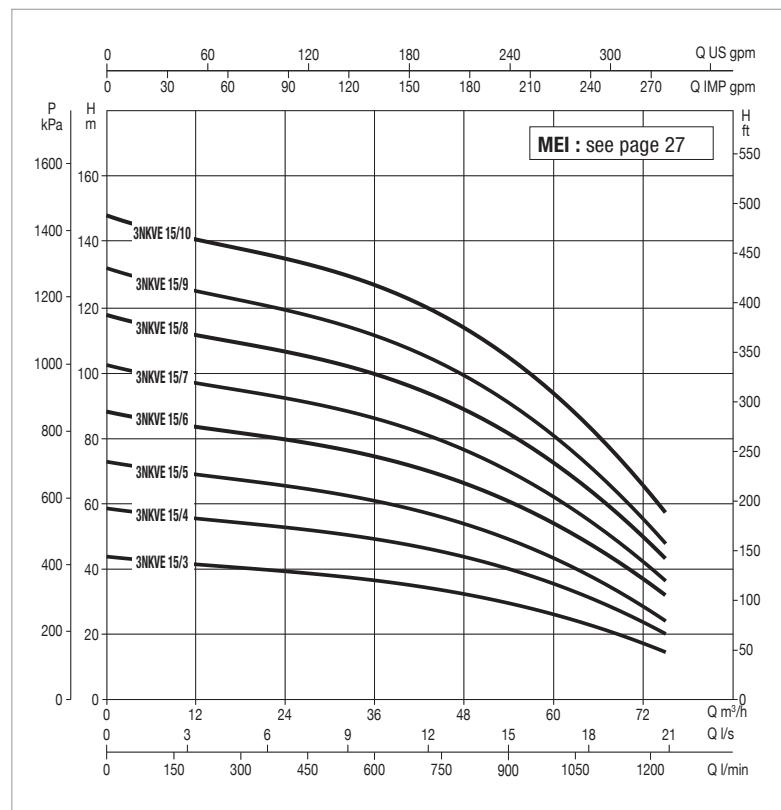
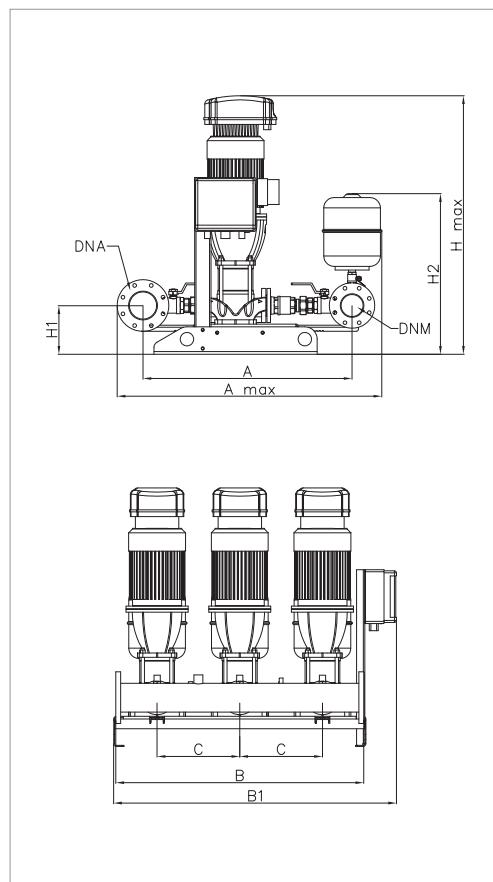


| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|-----------------------------|---------------------------|------------|-------|---------|----------------|---|--------------------------------|--------------------------|
| | | kW | HP | | | | | |
| 3 NKVE 10/5 S T MCE 400-50 | 3 x 400 V ~ | 3x1,5 | 3x2 | 3x4,9 | MCE 30/P | 39 | 5 | 4 |
| 3 NKVE 10/6 S T MCE 400-50 | 3 x 400 V ~ | 3x2,2 | 3x3 | 3x5,4 | MCE 30/P | 39 | 6 | 5 |
| 3 NKVE 10/7 S T MCE 400-50 | 3 x 400 V ~ | 3x2,2 | 3x3 | 3x5,4 | MCE 30/P | 39 | 7 | 6 |
| 3 NKVE 10/8 S T MCE 400-50 | 3 x 400 V ~ | 3x3 | 3x4 | 3x7,37 | MCE 30/P | 39 | 8 | 6,5 |
| 3 NKVE 10/9 S T MCE 400-50 | 3 x 400 V ~ | 3x3 | 3x4 | 3x7,37 | MCE 30/P | 39 | 9 | 7,7 |
| 3 NKVE 10/10 S T MCE 400-50 | 3 x 400 V ~ | 3x4 | 3x5,5 | 3x10,1 | MCE 30/P | 39 | 10 | 8,5 |
| 3 NKVE 10/12 S T MCE 400-50 | 3 x 400 V ~ | 3x4 | 3x5,5 | 3x10,1 | MCE 30/P | 39 | 12 | 10 |
| 3 NKVE 10/15 S T MCE 400-50 | 3 x 400 V ~ | 3x5,5 | 3x7,5 | 3x13,1 | MCE 55/P | 39 | 14 | 10 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|-----------------------------|-----|----------|------|------|-----|---|-----|-----|----------|-----|-----|--------------------|------|------|--------------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 3 NKVE 10/5 S T MCE 400-50 | 885 | 1130 | 1200 | 1370 | 400 | - | 226 | 755 | 1255 | 80 | 80 | 2150 | 1400 | 1800 | 425 |
| 3 NKVE 10/6 S T MCE 400-50 | 885 | 1130 | 1200 | 1370 | 400 | - | 226 | 755 | 1285 | 80 | 80 | 2150 | 1400 | 1800 | 428 |
| 3 NKVE 10/7 S T MCE 400-50 | 885 | 1130 | 1200 | 1370 | 400 | - | 226 | 755 | 1314 | 80 | 80 | 2150 | 1400 | 1800 | 468 |
| 3 NKVE 10/8 S T MCE 400-50 | 885 | 1130 | 1200 | 1370 | 400 | - | 226 | 755 | 1393 | 80 | 80 | 2150 | 1400 | 1800 | 471 |
| 3 NKVE 10/9 S T MCE 400-50 | 885 | 1130 | 1200 | 1370 | 400 | - | 226 | 755 | 1423 | 80 | 80 | 2150 | 1400 | 1800 | 473 |
| 3 NKVE 10/10 S T MCE 400-50 | 885 | 1130 | 1200 | 1370 | 400 | - | 226 | 755 | 1453 | 80 | 80 | 2150 | 1400 | 1800 | 503 |
| 3 NKVE 10/12 S T MCE 400-50 | 885 | 1130 | 1200 | 1370 | 400 | - | 226 | 755 | 1513 | 80 | 80 | 2150 | 1400 | 1800 | 508 |
| 3 NKVE 10/15 S T MCE 400-50 | 885 | 1130 | 1200 | 1370 | 400 | - | 226 | 755 | 1800 | 80 | 80 | 2150 | 1400 | 1800 | 593 |

3 NKVE 15 -MCE/P - CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h



The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³.
Curve tolerance according to ISO 9906.

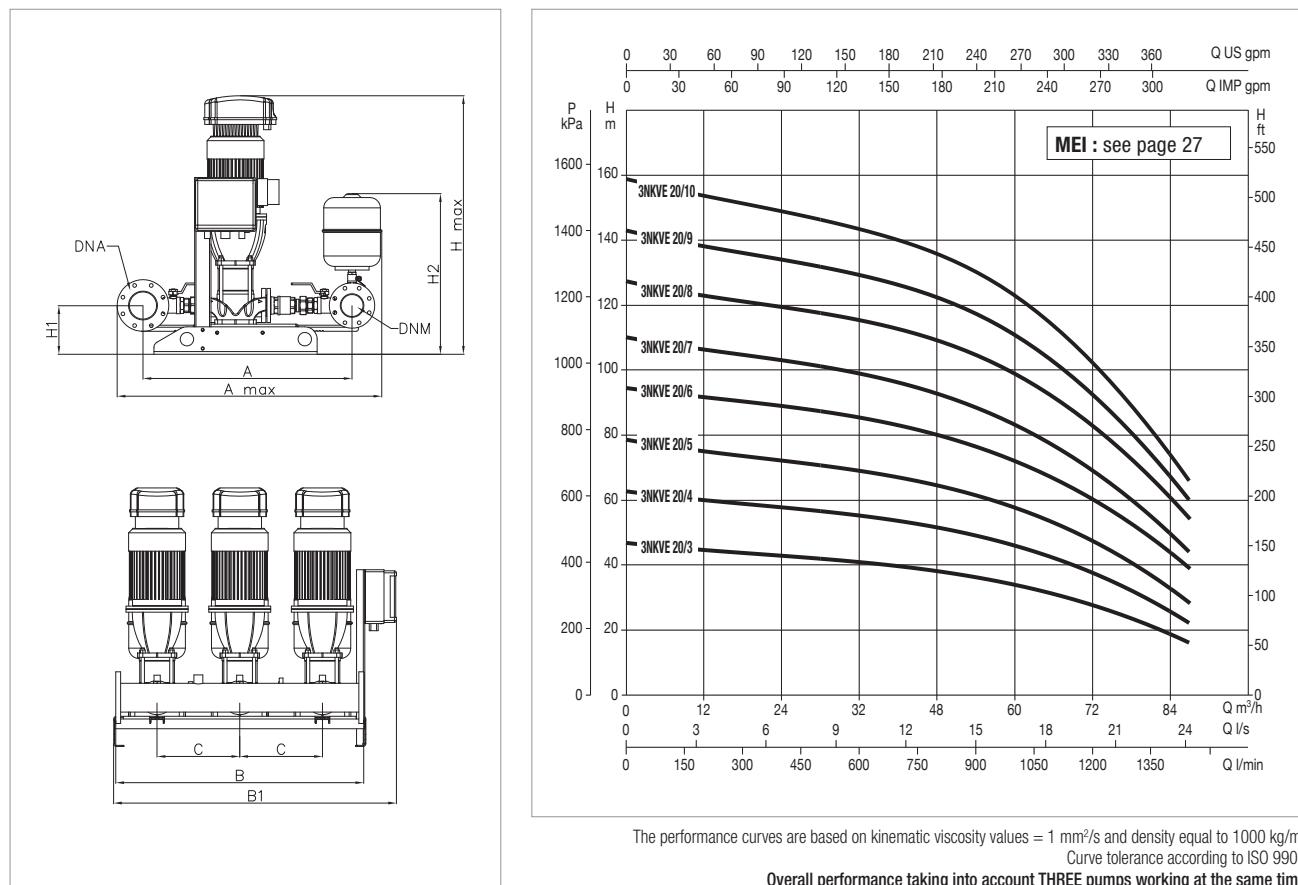
Overall performance taking into account THREE pumps working at the same time.

| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|-----------------------------|---------------------------|------------|-------|---------|----------------|---|--------------------------------|--------------------------|
| | | kW | HP | | | | | |
| 3 NKVE 15/3 S T MCE 400-50 | 3 x 400 V ~ | 3x3 | 3x4 | 3x7,37 | MCE 30/P | 72 | 4 | 3,5 |
| 3 NKVE 15/4 S T MCE 400-50 | 3 x 400 V ~ | 3x4 | 3x5,5 | 3x10,1 | MCE 30/P | 72 | 5 | 4 |
| 3 NKVE 15/5 S T MCE 400-50 | 3 x 400 V ~ | 3x4 | 3x5,5 | 3x10,1 | MCE 30/P | 72 | 6,5 | 5 |
| 3 NKVE 15/6 S T MCE 400-50 | 3 x 400 V ~ | 3x5,5 | 3x7,5 | 3x13,1 | MCE 55/P | 72 | 7,5 | 6,5 |
| 3 NKVE 15/7 S T MCE 400-50 | 3 x 400 V ~ | 3x5,5 | 3x7,5 | 3x13,1 | MCE 55/P | 72 | 9 | 8 |
| 3 NKVE 15/8 S T MCE 400-50 | 3 x 400 V ~ | 3x7,5 | 3x10 | 3x17,6 | MCE 55/P | 72 | 11 | 10 |
| 3 NKVE 15/9 S T MCE 400-50 | 3 x 400 V ~ | 3x7,5 | 3x10 | 3x17,6 | MCE 55/P | 72 | 12 | 11 |
| 3 NKVE 15/10 S T MCE 400-50 | 3 x 400 V ~ | 3x11 | 3x15 | 3x25,5 | MCE 110/P | 72 | 13 | 12 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|-----------------------------|------|----------|------|------|-----|---|-----|-----|----------|-----|-----|--------------------|------|------|--------------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 3 NKVE 15/3 S T MCE 400-50 | 1115 | 1285 | 1200 | 1370 | 400 | - | 236 | 780 | 1321 | 125 | 100 | 2150 | 1400 | 1800 | 486 |
| 3 NKVE 15/4 S T MCE 400-50 | 1115 | 1285 | 1200 | 1370 | 400 | - | 236 | 780 | 1369 | 125 | 100 | 2150 | 1400 | 1800 | 516 |
| 3 NKVE 15/5 S T MCE 400-50 | 1115 | 1285 | 1200 | 1370 | 400 | - | 236 | 780 | 1417 | 125 | 100 | 2150 | 1400 | 1800 | 520 |
| 3 NKVE 15/6 S T MCE 400-50 | 1115 | 1285 | 1200 | 1370 | 400 | - | 236 | 780 | 1674 | 125 | 100 | 2150 | 1400 | 1800 | 605 |
| 3 NKVE 15/7 S T MCE 400-50 | 1115 | 1285 | 1200 | 1370 | 400 | - | 236 | 780 | 1722 | 125 | 100 | 2150 | 1400 | 1800 | 608 |
| 3 NKVE 15/8 S T MCE 400-50 | 1115 | 1285 | 1200 | 1370 | 400 | - | 236 | 780 | 1892 | 125 | 100 | 2150 | 1400 | 1800 | 645 |
| 3 NKVE 15/9 S T MCE 400-50 | 1115 | 1285 | 1200 | 1370 | 400 | - | 236 | 780 | 1940 | 125 | 100 | 2150 | 1400 | 1800 | 649 |
| 3 NKVE 15/10 S T MCE 400-50 | 1115 | 1285 | 1200 | 1370 | 400 | - | 236 | 780 | 2084 | 125 | 100 | 2150 | 1400 | 1800 | 818 |

3 NKVE 20 -MCE/P - CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h



The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³.
Curve tolerance according to ISO 9906.

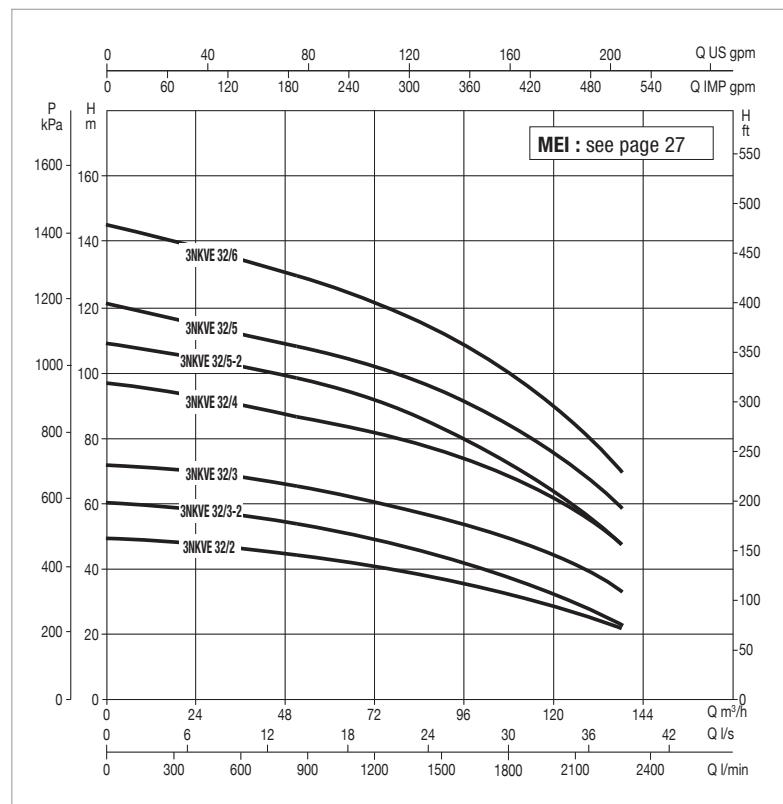
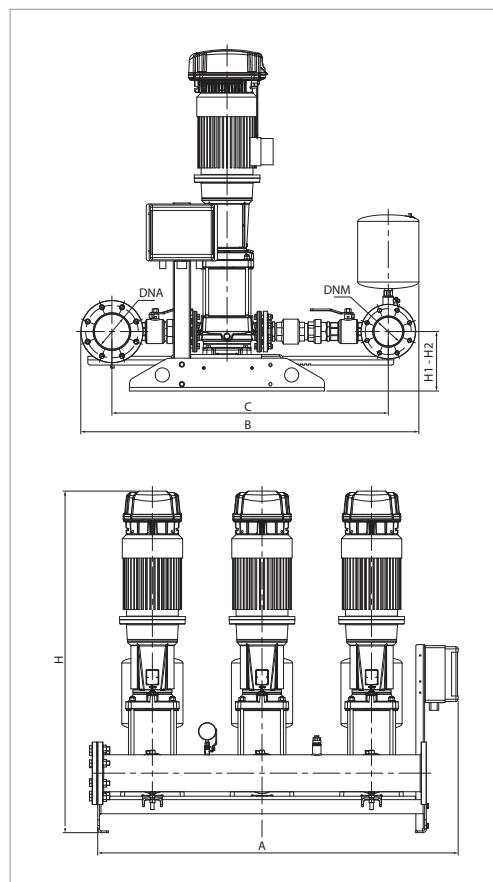
Overall performance taking into account THREE pumps working at the same time.

| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|-----------------------------|---------------------------|------------|-------|---------|----------------|---|--------------------------------|--------------------------|
| | | kW | HP | | | | | |
| 3 NKVE 20/3 S T MCE 400-50 | 3 x 400 V ~ | 3x3 | 3x4 | 3x7,37 | MCE 30/P | 87 | 4 | 3,5 |
| 3 NKVE 20/4 S T MCE 400-50 | 3 x 400 V ~ | 3x4 | 3x5,5 | 3x10,1 | MCE 30/P | 87 | 6 | 5 |
| 3 NKVE 20/5 S T MCE 400-50 | 3 x 400 V ~ | 3x5,5 | 3x7,5 | 3x13,1 | MCE 55/P | 87 | 7 | 6 |
| 3 NKVE 20/6 S T MCE 400-50 | 3 x 400 V ~ | 3x7,5 | 3x10 | 3x17,6 | MCE 55/P | 87 | 8,5 | 7,5 |
| 3 NKVE 20/7 S T MCE 400-50 | 3 x 400 V ~ | 3x7,5 | 3x10 | 3x17,6 | MCE 55/P | 87 | 10 | 9 |
| 3 NKVE 20/8 S T MCE 400-50 | 3 x 400 V ~ | 3x11 | 3x15 | 3x25,5 | MCE 110/P | 87 | 11,5 | 10 |
| 3 NKVE 20/9 S T MCE 400-50 | 3 x 400 V ~ | 3x11 | 3x15 | 3x25,5 | MCE 110/P | 87 | 13 | 12 |
| 3 NKVE 20/10 S T MCE 400-50 | 3 x 400 V ~ | 3x11 | 3x15 | 3x25,5 | MCE 110/P | 87 | 14 | 13 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|-----------------------------|------|----------|------|------|-----|---|-----|-----|----------|-----|-----|--------------------|------|------|--------------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 3 NKVE 20/3 S T MCE 400-50 | 1115 | 1285 | 1200 | 1370 | 400 | - | 236 | 780 | 1321 | 125 | 100 | 2150 | 1400 | 1800 | 471 |
| 3 NKVE 20/4 S T MCE 400-50 | 1115 | 1285 | 1200 | 1370 | 400 | - | 236 | 780 | 1369 | 125 | 100 | 2150 | 1400 | 1800 | 513 |
| 3 NKVE 20/5 S T MCE 400-50 | 1115 | 1285 | 1200 | 1370 | 400 | - | 236 | 780 | 1626 | 125 | 100 | 2150 | 1400 | 1800 | 519 |
| 3 NKVE 20/6 S T MCE 400-50 | 1115 | 1285 | 1200 | 1370 | 400 | - | 236 | 780 | 1796 | 125 | 100 | 2150 | 1400 | 1800 | 556 |
| 3 NKVE 20/7 S T MCE 400-50 | 1115 | 1285 | 1200 | 1370 | 400 | - | 236 | 780 | 1844 | 125 | 100 | 2150 | 1400 | 1800 | 559 |
| 3 NKVE 20/8 S T MCE 400-50 | 1115 | 1285 | 1200 | 1370 | 400 | - | 236 | 780 | 1987 | 125 | 100 | 2150 | 1400 | 1800 | 655 |
| 3 NKVE 20/9 S T MCE 400-50 | 1115 | 1285 | 1200 | 1370 | 400 | - | 236 | 780 | 2035 | 125 | 100 | 2150 | 1400 | 1800 | 658 |
| 3 NKVE 20/10 S T MCE 400-50 | 1115 | 1285 | 1200 | 1370 | 400 | - | 236 | 780 | 2084 | 125 | 100 | 2150 | 1400 | 1800 | 691 |

3 NKVE 32 -MCE/P - CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h



The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³.
Curve tolerance according to ISO 9906.

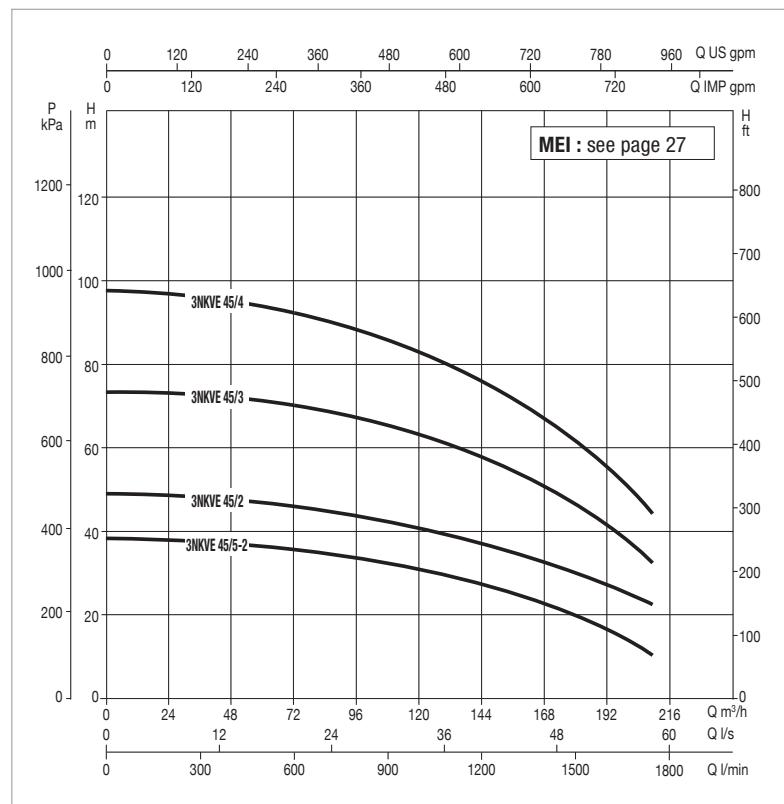
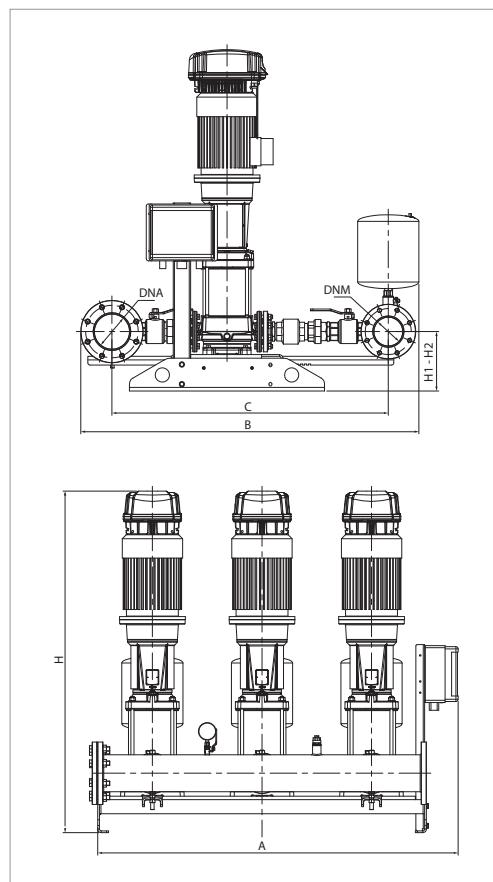
Overall performance taking into account THREE pumps working at the same time.

| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|----------------------------|------------------------------|------------|-------|---------|----------------|---|--------------------------------|--------------------------|
| | | kW | HP | | | | | |
| 3 NKVE 32/2 T MCE 400-50 | 3 x 400 V ~ | 3x5,5 | 3x7,5 | 3x13,1 | MCE 55/P | 135 | 4,8 | 4 |
| 3 NKVE 32/3-2 T MCE 400-50 | 3 x 400 V ~ | 3x5,5 | 3x7,5 | 3x13,1 | MCE 55/P | 135 | 6 | 5 |
| 3 NKVE 32/3 T MCE 400-50 | 3 x 400 V ~ | 3x7,5 | 3x10 | 3x17,6 | MCE 55/P | 135 | 7,3 | 6 |
| 3 NKVE 32/4 T MCE 400-50 | 3 x 400 V ~ | 3x11 | 3x15 | 3x25,5 | MCE 110/P | 135 | 9,8 | 8 |
| 3 NKVE 32/5-2 T MCE 400-50 | 3 x 400 V ~ | 3x11 | 3x15 | 3x25,5 | MCE 110/P | 135 | 10,9 | 9 |
| 3 NKVE 32/5 T MCE 400-50 | 3 x 400 V ~ | 3x15 | 3x20 | 3x34 | MCE 150/P | 135 | 12,2 | 10 |
| 3 NKVE 32/6 T MCE 400-50 | 3 x 400 V ~ | 3x15 | 3x20 | 3x34 | MCE 150/P | 135 | 14,6 | 12 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|----------------------------|------|----------|------|----|------|------|-----|-----|----------|-----|-----|--------------------|------|------|--------------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 3 NKVE 32/2 T MCE 400-50 | 1683 | - | 1575 | - | 1312 | 1476 | 271 | 271 | - | 150 | 125 | 1500 | 2250 | 2200 | 714 |
| 3 NKVE 32/3-2 T MCE 400-50 | 1683 | - | 1575 | - | 1312 | 1558 | 271 | 271 | - | 150 | 125 | 1500 | 2250 | 2200 | 726 |
| 3 NKVE 32/3 T MCE 400-50 | 1683 | - | 1575 | - | 1312 | 1558 | 271 | 271 | - | 150 | 125 | 1500 | 2250 | 2200 | 759 |
| 3 NKVE 32/4 T MCE 400-50 | 1683 | - | 1575 | - | 1312 | 1829 | 271 | 271 | - | 150 | 125 | 1500 | 2250 | 2200 | 924 |
| 3 NKVE 32/5-2 T MCE 400-50 | 1683 | - | 1575 | - | 1312 | 1911 | 271 | 271 | - | 150 | 125 | 1500 | 2250 | 2200 | 936 |
| 3 NKVE 32/5 T MCE 400-50 | 1683 | - | 1575 | - | 1312 | 1911 | 271 | 271 | - | 150 | 125 | 1500 | 2250 | 2200 | 978 |
| 3 NKVE 32/6 T MCE 400-50 | 1683 | - | 1575 | - | 1312 | 1993 | 271 | 271 | - | 150 | 125 | 1500 | 2250 | 2200 | 990 |

3 NKVE 45 -MCE/P - CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h



The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

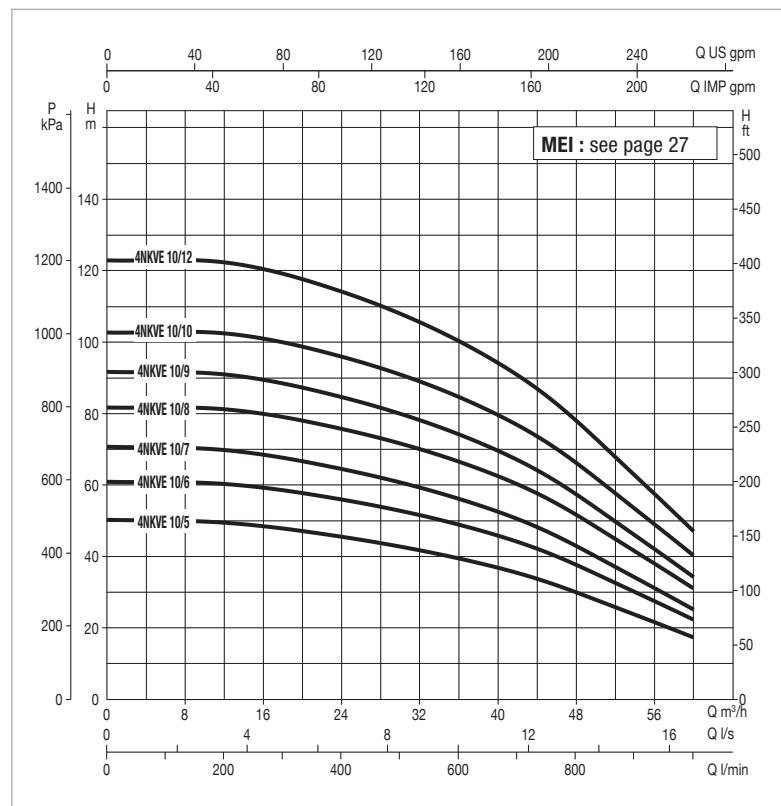
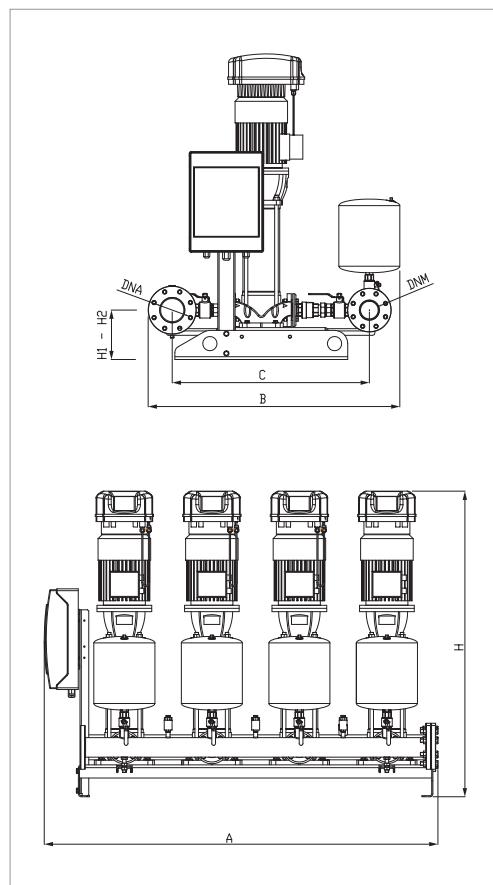
Overall performance taking into account THREE pumps working at the same time.

| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|----------------------------|---------------------------|------------|-------|---------|-------------|--|-----------------------------|-----------------------|
| | | kW | HP | | | | | |
| 3 NKVE 45/2-2 T MCE 400-50 | 3 x 400 V ~ | 3x5,5 | 3x7,5 | 3x13,1 | MCE 55/P | 210 | 3,8 | 3 |
| 3 NKVE 45/2 T MCE 400-50 | 3 x 400 V ~ | 3x7,5 | 3x10 | 3x17,6 | MCE 55/P | 210 | 4,8 | 4 |
| 3 NKVE 45/3 T MCE 400-50 | 3 x 400 V ~ | 3x11 | 3x15 | 3x25,5 | MCE 110/P | 210 | 7,3 | 6,5 |
| 3 NKVE 45/4 T MCE 400-50 | 3 x 400 V ~ | 3x15 | 3x20 | 3x34 | MCE 150/P | 210 | 9,7 | 8,5 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|----------------------------|------|----------|------|----|------|------|-----|-----|----------|-----|-----|--------------------|------|------|--------------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 3 NKVE 45/2-2 T MCE 400-50 | 1683 | - | 1622 | - | 1340 | 1515 | 306 | 306 | - | 200 | 150 | 1500 | 2250 | 2200 | 732 |
| 3 NKVE 45/2 T MCE 400-50 | 1683 | - | 1622 | - | 1340 | 1565 | 306 | 306 | - | 200 | 150 | 1500 | 2250 | 2200 | 765 |
| 3 NKVE 45/3 T MCE 400-50 | 1683 | - | 1622 | - | 1340 | 1782 | 306 | 306 | - | 200 | 150 | 1500 | 2250 | 2200 | 930 |
| 3 NKVE 45/4 T MCE 400-50 | 1683 | - | 1622 | - | 1340 | 1864 | 306 | 306 | - | 200 | 150 | 1500 | 2250 | 2200 | 984 |

4 NKVE 10 -MCE/P - CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h



The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³.
Curve tolerance according to ISO 9906.

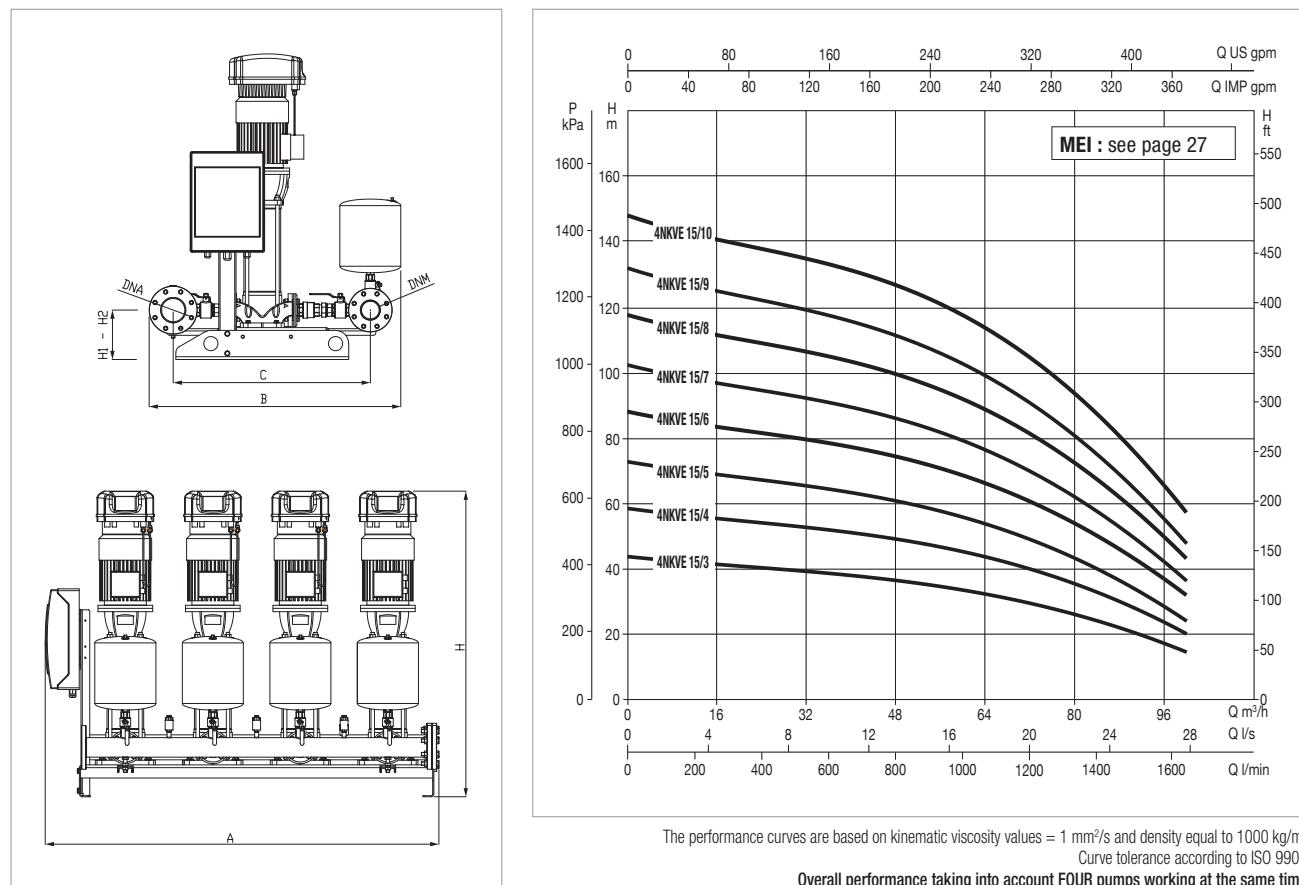
Overall performance taking into account FOUR pumps working at the same time.

| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|-----------------------------|---------------------------|------------|-------|---------|----------------|---|--------------------------------|--------------------------|
| | | kW | HP | | | | | |
| 4 NKVE 10/5 S T MCE 400-50 | 3 x 400 V ~ | 4x1,5 | 4x2 | 4x4,9 | MCE 30/P | 52 | 5 | 4 |
| 4 NKVE 10/6 S T MCE 400-50 | 3 x 400 V ~ | 4x2,2 | 4x3 | 4x5,4 | MCE 30/P | 52 | 6 | 5 |
| 4 NKVE 10/7 S T MCE 400-50 | 3 x 400 V ~ | 4x2,2 | 4x3 | 4x5,4 | MCE 30/P | 52 | 7 | 6 |
| 4 NKVE 10/8 S T MCE 400-50 | 3 x 400 V ~ | 4x3 | 4x4 | 4x7,37 | MCE 30/P | 52 | 8 | 6,5 |
| 4 NKVE 10/9 S T MCE 400-50 | 3 x 400 V ~ | 4x3 | 4x4 | 4x7,37 | MCE 30/P | 52 | 9 | 7,7 |
| 4 NKVE 10/10 S T MCE 400-50 | 3 x 400 V ~ | 4x4 | 4x5,5 | 4x10,1 | MCE 30/P | 52 | 10 | 8,5 |
| 4 NKVE 10/12 S T MCE 400-50 | 3 x 400 V ~ | 4x4 | 4x5,5 | 4x10,1 | MCE 30/P | 52 | 12 | 10 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|-----------------------------|------|----------|------|----|-----|------|-----|-----|----------|-----|-----|--------------------|------|------|--------------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 4 NKVE 10/5 S T MCE 400-50 | 1800 | - | 1150 | - | 900 | 1254 | 226 | 226 | - | 100 | 80 | 2250 | 1500 | 2200 | 327 |
| 4 NKVE 10/6 S T MCE 400-50 | 1800 | - | 1150 | - | 900 | 1284 | 226 | 226 | - | 100 | 80 | 2250 | 1500 | 2200 | 571 |
| 4 NKVE 10/7 S T MCE 400-50 | 1800 | - | 1150 | - | 900 | 1314 | 226 | 226 | - | 100 | 80 | 2250 | 1500 | 2200 | 624 |
| 4 NKVE 10/8 S T MCE 400-50 | 1800 | - | 1150 | - | 900 | 1393 | 226 | 226 | - | 100 | 80 | 2250 | 1500 | 2200 | 628 |
| 4 NKVE 10/9 S T MCE 400-50 | 1800 | - | 1150 | - | 900 | 1423 | 226 | 226 | - | 100 | 80 | 2250 | 1500 | 2200 | 631 |
| 4 NKVE 10/10 S T MCE 400-50 | 1800 | - | 1150 | - | 900 | 1453 | 226 | 226 | - | 100 | 80 | 2250 | 1500 | 2200 | 671 |
| 4 NKVE 10/12 S T MCE 400-50 | 1800 | - | 1150 | - | 900 | 1513 | 226 | 226 | - | 100 | 80 | 2250 | 1500 | 2200 | 678 |

4 NKVE 15 -MCE/P - CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h

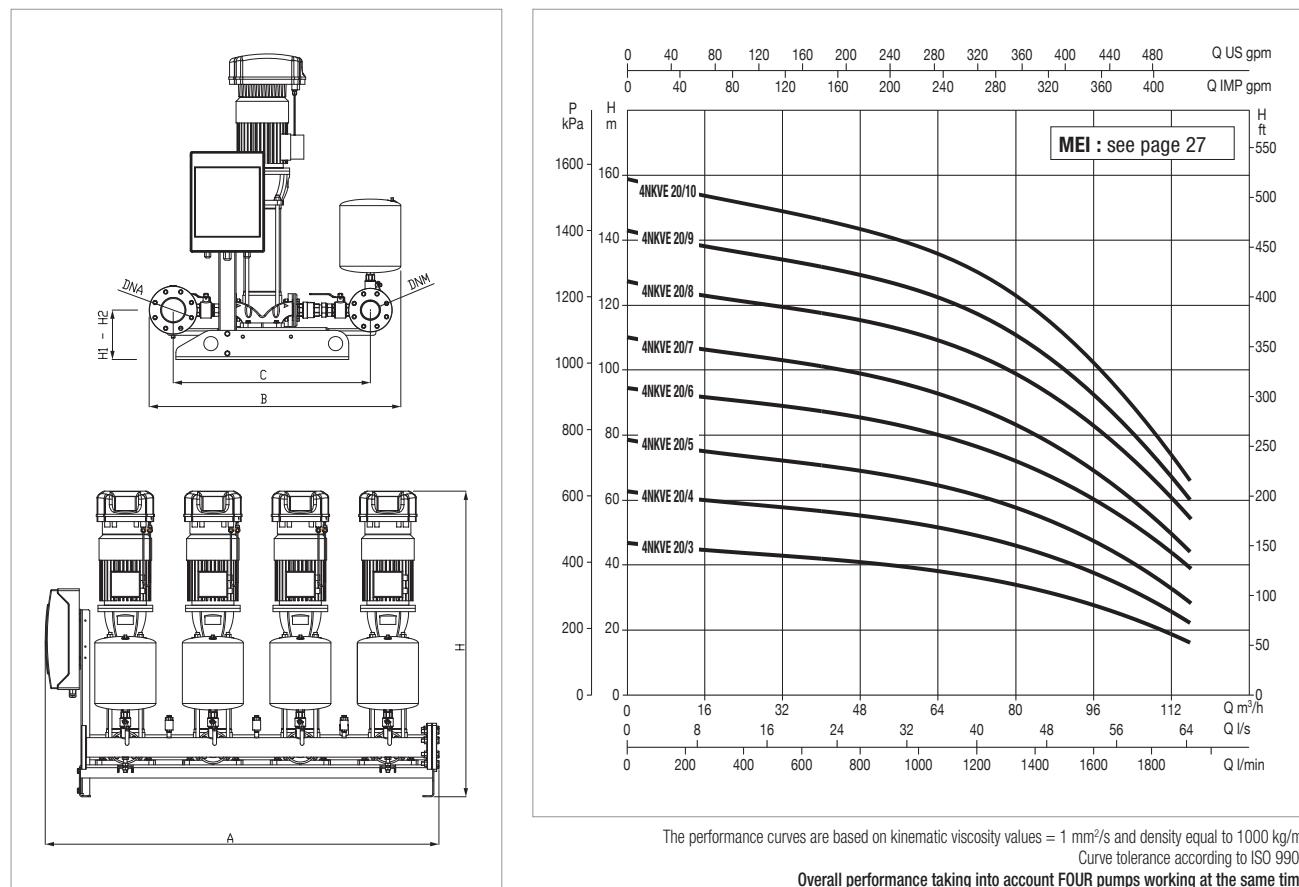


| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|-----------------------------|---------------------------|------------|-------|--------|-------------|-------------------------------------|-----------------------------|-----------------------|
| | | kW | HP | | | | | |
| 4 NKVE 15/3 S T MCE 400-50 | 3 x 400 V ~ | 4x3 | 4x4 | 4x7,37 | MCE 30/P | 96 | 4 | 3,5 |
| 4 NKVE 15/4 S T MCE 400-50 | 3 x 400 V ~ | 4x4 | 4x5,5 | 4x10,1 | MCE 30/P | 96 | 5 | 4 |
| 4 NKVE 15/5 S T MCE 400-50 | 3 x 400 V ~ | 4x4 | 4x5,5 | 4x10,1 | MCE 30/P | 96 | 6,5 | 5 |
| 4 NKVE 15/6 S T MCE 400-50 | 3 x 400 V ~ | 4x5,5 | 4x7,5 | 4x13,1 | MCE 55/P | 96 | 7,5 | 6,5 |
| 4 NKVE 15/7 S T MCE 400-50 | 3 x 400 V ~ | 4x5,5 | 4x7,5 | 4x13,1 | MCE 55/P | 96 | 9 | 8 |
| 4 NKVE 15/8 S T MCE 400-50 | 3 x 400 V ~ | 4x7,5 | 4x10 | 4x17,6 | MCE 55/P | 96 | 11 | 10 |
| 4 NKVE 15/9 S T MCE 400-50 | 3 x 400 V ~ | 4x7,5 | 4x10 | 4x17,6 | MCE 55/P | 96 | 12 | 11 |
| 4 NKVE 15/10 S T MCE 400-50 | 3 x 400 V ~ | 4x11 | 4x15 | 4x25,5 | MCE 110/P | 96 | 13 | 12 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|-----------------------------|------|-------|------|----|------|------|-----|-----|-------|-----|-----|--------------------|------|------|-----------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 4 NKVE 15/3 S T MCE 400-50 | 1800 | - | 1330 | - | 1050 | 1321 | 236 | 236 | - | 150 | 125 | 2150 | 1000 | 1400 | 648 |
| 4 NKVE 15/4 S T MCE 400-50 | 1800 | - | 1330 | - | 1050 | 1369 | 236 | 236 | - | 150 | 125 | 2150 | 1000 | 1400 | 688 |
| 4 NKVE 15/5 S T MCE 400-50 | 1800 | - | 1330 | - | 1050 | 1417 | 236 | 236 | - | 150 | 125 | 2150 | 1000 | 1400 | 694 |
| 4 NKVE 15/6 S T MCE 400-50 | 1800 | - | 1330 | - | 1050 | 1674 | 236 | 236 | - | 150 | 125 | 2150 | 1000 | 1400 | 807 |
| 4 NKVE 15/7 S T MCE 400-50 | 1800 | - | 1330 | - | 1050 | 1722 | 236 | 236 | - | 150 | 125 | 2150 | 1000 | 1400 | 811 |
| 4 NKVE 15/8 S T MCE 400-50 | 1800 | - | 1330 | - | 1050 | 1892 | 236 | 236 | - | 150 | 125 | 2150 | 1000 | 1400 | 860 |
| 4 NKVE 15/9 S T MCE 400-50 | 1800 | - | 1330 | - | 1050 | 1940 | 236 | 236 | - | 150 | 125 | 2150 | 1000 | 1400 | 865 |
| 4 NKVE 15/10 S T MCE 400-50 | 1800 | - | 1330 | - | 1050 | 2084 | 236 | 236 | - | 150 | 125 | 2150 | 1000 | 1400 | 919 |

4 NKVE 20 -MCE/P - CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h

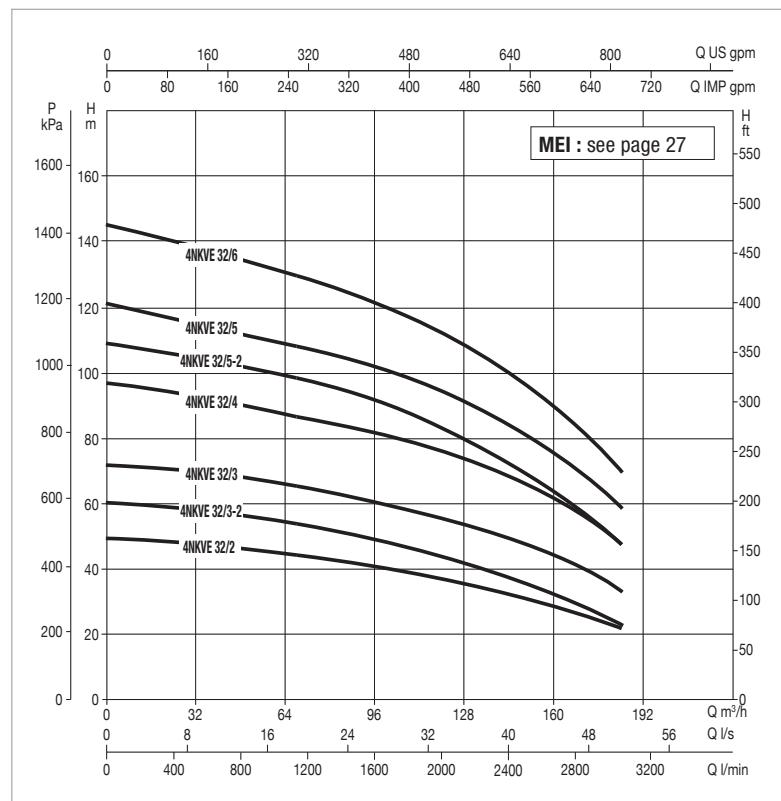
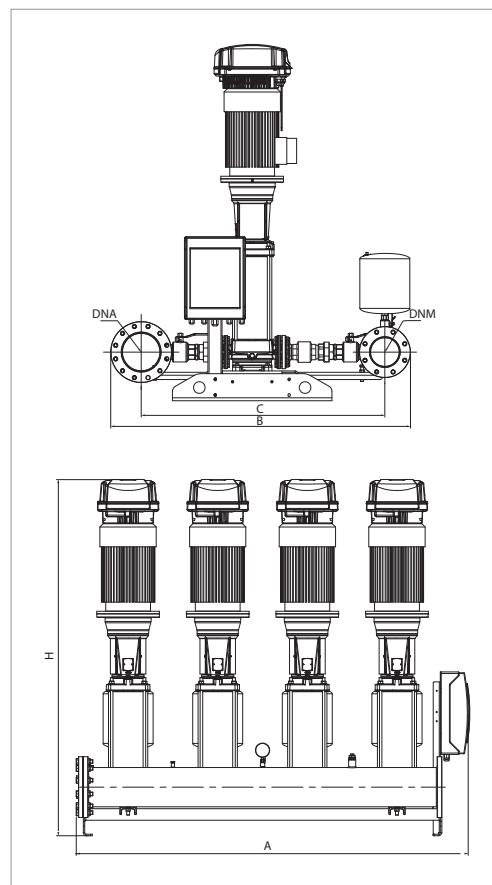


| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|-----------------------------|---------------------------|------------|-------|--------|-------------|-------------------------------------|-----------------------------|-----------------------|
| | | kW | HP | | | | | |
| 4 NKVE 20/3 S T MCE 400-50 | 3 x 400 V ~ | 4x3 | 4x4 | 4x7,37 | MCE 30/P | 116 | 4 | 3,5 |
| 4 NKVE 20/4 S T MCE 400-50 | 3 x 400 V ~ | 4x4 | 4x5,5 | 4x10,1 | MCE 30/P | 116 | 6 | 5 |
| 4 NKVE 20/5 S T MCE 400-50 | 3 x 400 V ~ | 4x5,5 | 4x7,5 | 4x13,1 | MCE 55/P | 116 | 7 | 6 |
| 4 NKVE 20/6 S T MCE 400-50 | 3 x 400 V ~ | 4x7,5 | 4x10 | 4x17,6 | MCE 55/P | 116 | 8,5 | 7,5 |
| 4 NKVE 20/7 S T MCE 400-50 | 3 x 400 V ~ | 4x7,5 | 4x10 | 4x17,6 | MCE 55/P | 116 | 10 | 9 |
| 4 NKVE 20/8 S T MCE 400-50 | 3 x 400 V ~ | 4x11 | 4x15 | 4x25,5 | MCE 110/P | 116 | 11,5 | 10 |
| 4 NKVE 20/9 S T MCE 400-50 | 3 x 400 V ~ | 4x11 | 4x15 | 4x25,5 | MCE 110/P | 116 | 13 | 12 |
| 4 NKVE 20/10 S T MCE 400-50 | 3 x 400 V ~ | 4x11 | 4x15 | 4x25,5 | MCE 110/P | 116 | 14 | 13 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|-----------------------------|------|-------|------|----|------|------|-----|-----|-------|-----|-----|--------------------|------|------|-----------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 4 NKVE 20/3 S T MCE 400-50 | 1800 | - | 1330 | - | 1150 | 1321 | 236 | 236 | - | 150 | 125 | 2150 | 1000 | 1400 | 628 |
| 4 NKVE 20/4 S T MCE 400-50 | 1800 | - | 1330 | - | 1150 | 1369 | 236 | 236 | - | 150 | 125 | 2150 | 1000 | 1400 | 684 |
| 4 NKVE 20/5 S T MCE 400-50 | 1800 | - | 1330 | - | 1150 | 1626 | 236 | 236 | - | 150 | 125 | 2150 | 1000 | 1400 | 692 |
| 4 NKVE 20/6 S T MCE 400-50 | 1800 | - | 1330 | - | 1150 | 1796 | 236 | 236 | - | 150 | 125 | 2150 | 1000 | 1400 | 741 |
| 4 NKVE 20/7 S T MCE 400-50 | 1800 | - | 1330 | - | 1150 | 1844 | 236 | 236 | - | 150 | 125 | 2150 | 1000 | 1400 | 745 |
| 4 NKVE 20/8 S T MCE 400-50 | 1800 | - | 1330 | - | 1150 | 1987 | 236 | 236 | - | 150 | 125 | 2150 | 1000 | 1400 | 873 |
| 4 NKVE 20/9 S T MCE 400-50 | 1800 | - | 1330 | - | 1150 | 2035 | 236 | 236 | - | 150 | 125 | 2150 | 1000 | 1400 | 877 |
| 4 NKVE 20/10 S T MCE 400-50 | 1800 | - | 1330 | - | 1150 | 2084 | 236 | 236 | - | 150 | 125 | 2150 | 1000 | 1400 | 921 |

4 NKVE 32 -MCE/P - CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h



The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³.
Curve tolerance according to ISO 9906.

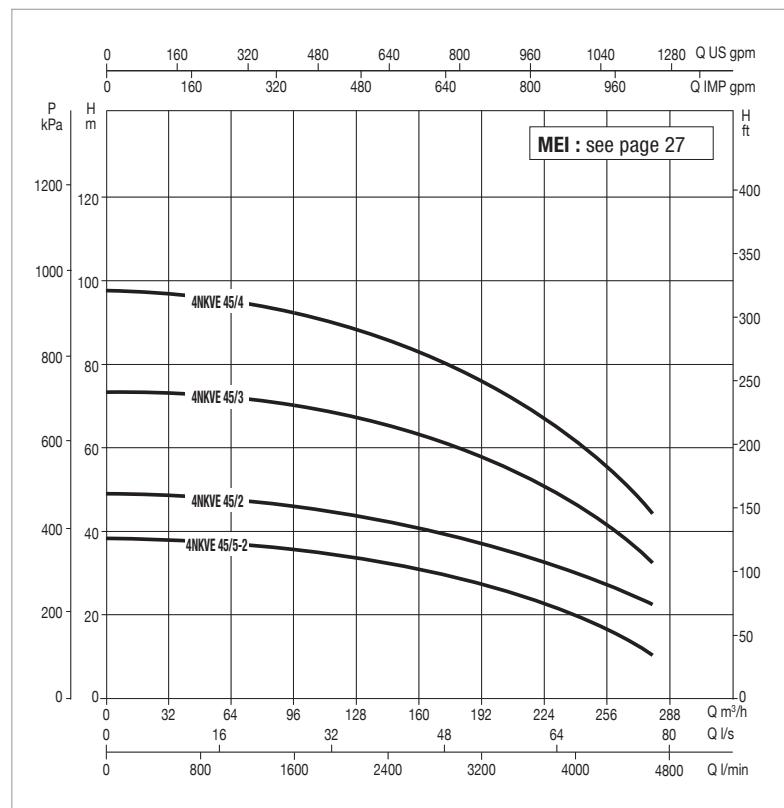
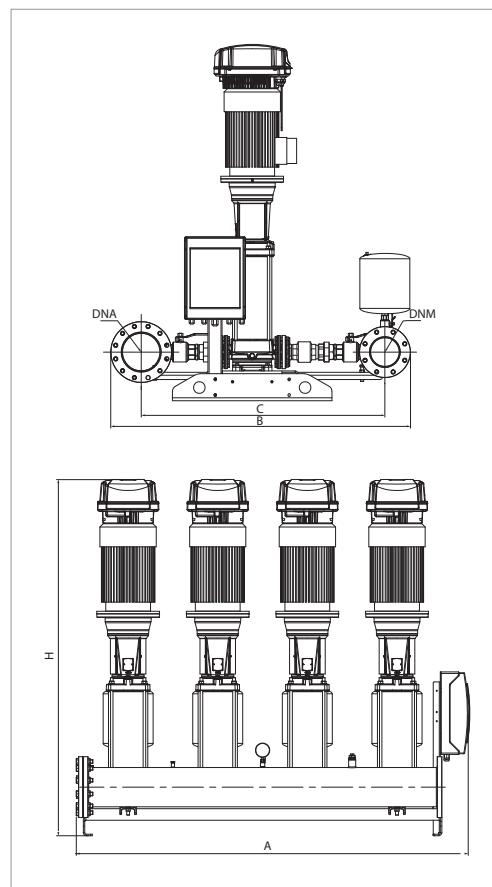
Overall performance taking into account FOUR pumps working at the same time.

| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|----------------------------|------------------------------|------------|-------|---------|----------------|---|--------------------------------|--------------------------|
| | | kW | HP | | | | | |
| 4 NKVE 32/2 T MCE 400-50 | 3 x 400 V ~ | 4x5,5 | 4x7,5 | 4x13,1 | MCE 55/P | 180 | 4,8 | 4 |
| 4 NKVE 32/3-2 T MCE 400-50 | 3 x 400 V ~ | 4x5,5 | 4x7,5 | 4x13,1 | MCE 55/P | 180 | 6 | 5 |
| 4 NKVE 32/3 T MCE 400-50 | 3 x 400 V ~ | 4x7,5 | 4x10 | 4x17,6 | MCE 55/P | 180 | 7,3 | 6 |
| 4 NKVE 32/4 T MCE 400-50 | 3 x 400 V ~ | 4x11 | 4x15 | 4x25,5 | MCE 110/P | 180 | 9,8 | 8 |
| 4 NKVE 32/5-2 T MCE 400-50 | 3 x 400 V ~ | 4x11 | 4x15 | 4x25,5 | MCE 110/P | 180 | 10,9 | 9 |
| 4 NKVE 32/5 T MCE 400-50 | 3 x 400 V ~ | 4x15 | 4x20 | 4x34 | MCE 150/P | 180 | 12,2 | 10 |
| 4 NKVE 32/6 T MCE 400-50 | 3 x 400 V ~ | 4x15 | 4x20 | 4x34 | MCE 150/P | 180 | 14,6 | 12 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|----------------------------|------|----------|------|----|------|------|-----|-----|----------|-----|-----|--------------------|------|------|--------------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 4 NKVE 32/2 T MCE 400-50 | 2195 | - | 1672 | - | 1340 | 1476 | 271 | 271 | - | 200 | 150 | 2660 | 1760 | 2200 | 952 |
| 4 NKVE 32/3-2 T MCE 400-50 | 2195 | - | 1672 | - | 1340 | 1558 | 271 | 271 | - | 200 | 150 | 2660 | 1760 | 2200 | 968 |
| 4 NKVE 32/3 T MCE 400-50 | 2195 | - | 1672 | - | 1340 | 1558 | 271 | 271 | - | 200 | 150 | 2660 | 1760 | 2200 | 1012 |
| 4 NKVE 32/4 T MCE 400-50 | 2195 | - | 1672 | - | 1340 | 1829 | 271 | 271 | - | 200 | 150 | 2660 | 1760 | 2200 | 1232 |
| 4 NKVE 32/5-2 T MCE 400-50 | 2195 | - | 1672 | - | 1340 | 1911 | 271 | 271 | - | 200 | 150 | 2660 | 1760 | 2200 | 1248 |
| 4 NKVE 32/5 T MCE 400-50 | 2195 | - | 1672 | - | 1340 | 1911 | 271 | 271 | - | 200 | 150 | 2660 | 1760 | 2200 | 1304 |
| 4 NKVE 32/6 T MCE 400-50 | 2195 | - | 1672 | - | 1340 | 1993 | 271 | 271 | - | 200 | 150 | 2660 | 1760 | 2200 | 1320 |

4 NKVE 45 -MCE/P - CONSTANT PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0 °C to +120 °C - Maximum ambient temperature: +50 °C - Max flow rate: 280 m³/h



The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³.
Curve tolerance according to ISO 9906.

Overall performance taking into account FOUR pumps working at the same time.

| MODEL | PUMP+INVERTER POWER INPUT | P2 NOMINAL | | In A | MCE/P MODEL | MAXIMUM FLOW RATE m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|----------------------------|------------------------------|------------|-------|---------|----------------|---|--------------------------------|--------------------------|
| | | kW | HP | | | | | |
| 4 NKVE 45/2-2 T MCE 400-50 | 3 x 400 V ~ | 4x5,5 | 4x7,5 | 4x13,1 | MCE 55/P | 280 | 3,8 | 3 |
| 4 NKVE 45/2 T MCE 400-50 | 3 x 400 V ~ | 4x7,5 | 4x10 | 4x17,6 | MCE 55/P | 280 | 4,8 | 4 |
| 4 NKVE 45/3 T MCE 400-50 | 3 x 400 V ~ | 4x11 | 4x15 | 4x25,5 | MCE 110/P | 280 | 7,3 | 6,5 |
| 4 NKVE 45/4 T MCE 400-50 | 3 x 400 V ~ | 4x15 | 4x20 | 4x34 | MCE 150/P | 280 | 9,7 | 8,5 |

| MODEL | A | A MAX | B | B1 | C | H | H1 | H2 | H MAX | DNA | DNM | PACKING DIMENSIONS | | | WEIGHT Kg |
|----------------------------|------|----------|------|----|------|------|-----|-----|----------|-----|-----|--------------------|------|------|--------------|
| | | | | | | | | | | | | L/A | L/B | H | |
| 4 NKVE 45/2-2 T MCE 400-50 | 2195 | - | 1813 | - | 1440 | 1515 | 306 | 306 | - | 250 | 200 | 2660 | 1760 | 2200 | 976 |
| 4 NKVE 45/2 T MCE 400-50 | 2195 | - | 1813 | - | 1440 | 1565 | 306 | 306 | - | 250 | 200 | 2660 | 1760 | 2200 | 1020 |
| 4 NKVE 45/3 T MCE 400-50 | 2195 | - | 1813 | - | 1440 | 1782 | 306 | 306 | - | 250 | 200 | 2660 | 1760 | 2200 | 1240 |
| 4 NKVE 45/4 T MCE 400-50 | 2195 | - | 1813 | - | 1440 | 1864 | 306 | 306 | - | 250 | 200 | 2660 | 1760 | 2200 | 1312 |

HYDRAULIC EFFICIENCY

EU 547/2012 REGULATION - MEI

HYDRAULIC EFFICIENCY

EU 547/2012 REGULATION - MEI

GENERAL INFORMATION

With the aim of defining a comparable performance threshold value among all water pumps present on the market, an index has been created which considers the size of the pump and its specific rotation speed: the MEI (Minimum Efficiency Index).

The regulation applies to centrifugal pumps for pumping clean water included in these product categories:

- END SUCTION OWN BEARING PUMPS (ESOB)
- END SUCTION CLOSE COUPLED PUMPS (ESCC)
- END SUCTION CLOSE COUPLED INLINE PUMPS (ESCCI)
- VERTICAL MULTISTAGE PUMPS (MS-V)
- SUBMERSIBLE MULTISTAGE PUMPS (MSS)

MEI represents a dimensionless indicator for hydraulic performance and is a measurement of the sizing of the pump with respect to its performance. The higher the MEI value, the better the sizing of the pump with respect to its performance and the lower the yearly energy consumption due to use of the pump. The upper limit of the MEI values is theoretically open, and depends only on physical and technological limits.

The minimum efficiency index (MEI) is based on the maximum diameter of the impeller. Multistage vertical pumps must undergo tests in a version with 3 stages.

The reference value for the most efficient water pumps is MEI ≥ 0.70.

The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller adapts the pump to a fixed work point, with a consequent lower energy consumption.

The operation of this water pump with variable operating points may be more efficient and economic if controlled, for example, by means of a variable speed motor which adapts pump operation to the system.

You can find information on reference efficiency at the address: www.dabpumps.com or contact our sales network.

The efficiency graphs for MEI=0.7 and MEI=0.4 for the different types of pumps are available on the site: www.europump.org/efficiencycharts

| PUMP MODEL | N° STAGES | MEI | η PL | η BEP | η OL |
|---------------------------|-----------|-----|-------|-------|-------|
| NKVE 10/02 M MCE11/P IE3 | 2 | | 64,72 | 67,58 | 66,82 |
| NKVE 10/03 M MCE11/P IE3 | 3 | | 64,72 | 67,58 | 66,82 |
| NKVE 10/04 M MCE11/P IE3 | 4 | | 64,72 | 67,58 | 66,82 |
| NKVE 10/05 M MCE11/P IE3 | 5 | | 64,72 | 67,58 | 66,82 |
| NKVE 10/06 M MCE15/P IE3 | 6 | | 64,72 | 67,58 | 66,82 |
| NKVE 10/07 M MCE15/P IE3 | 7 | | 64,72 | 67,58 | 66,82 |
| NKVE 10/08 T MCE30/P IE3 | 8 | | 64,72 | 67,58 | 66,82 |
| NKVE 10/09 T MCE30/P IE3 | 9 | | 64,72 | 67,58 | 66,82 |
| NKVE 10/10 T MCE30/P IE3 | 10 | | 64,72 | 67,58 | 66,82 |
| NKVE 10/12 T MCE30/P IE3 | 12 | | 64,72 | 67,58 | 66,82 |
| NKVE 10/15 T MCE55/P IE3 | 15 | | 64,72 | 67,58 | 66,82 |
| NKVE 10/17 T MCE55/P IE3 | 17 | | 64,72 | 67,58 | 66,82 |
| NKVE 10/19 T MCE55/P IE3 | 19 | | 64,72 | 67,58 | 66,82 |
| NKVE 10/23 T MCE55/P IE3 | 23 | | 64,72 | 67,58 | 66,82 |
| NKVE 10/24 T MCE110/P IE3 | 24 | | 64,72 | 67,58 | 66,82 |

HYDRAULIC EFFICIENCY

EU 547/2012 REGULATION - MEI

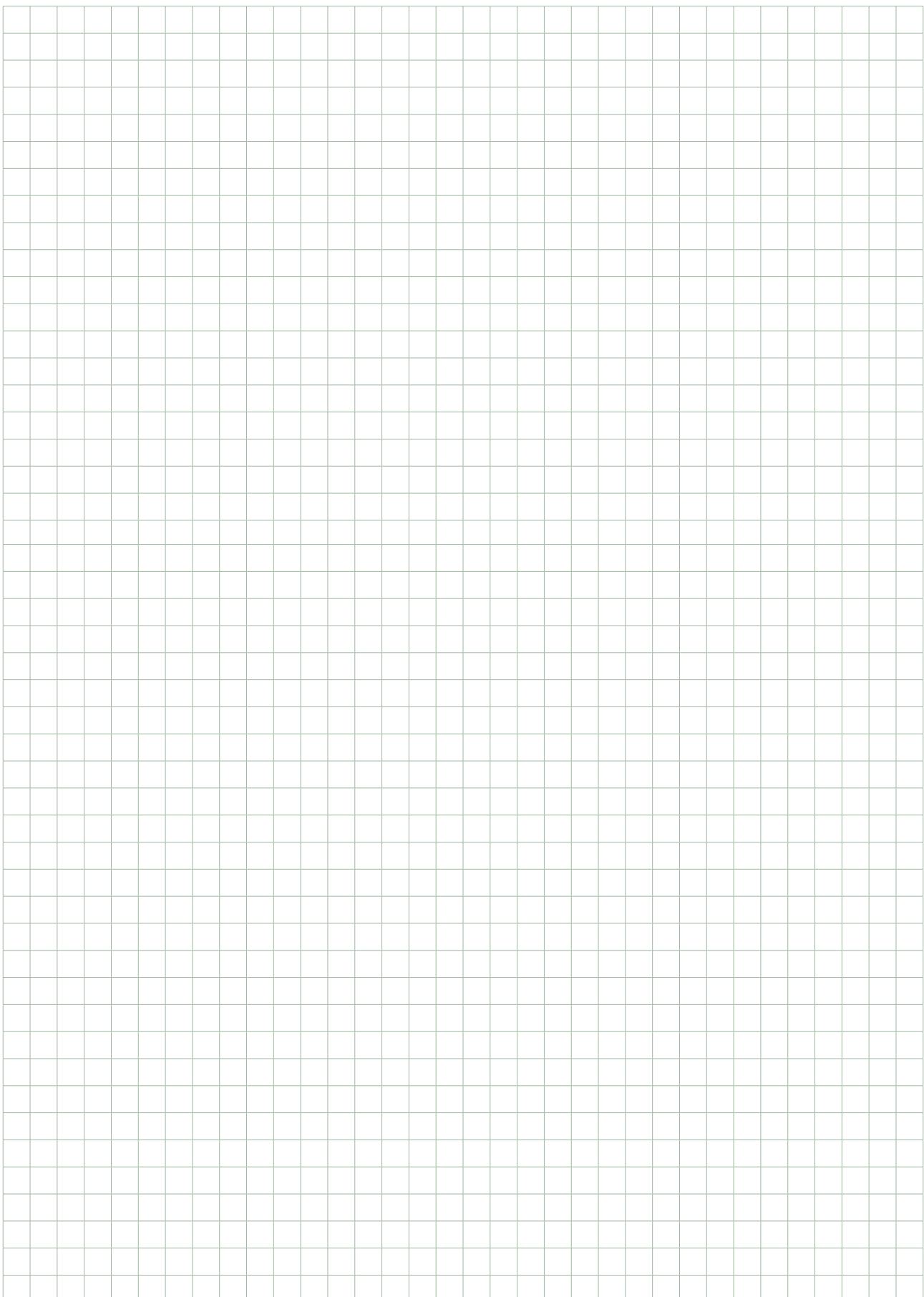
| PUMP MODEL | N° STAGES | MEI | η_{PL} | η_{BEP} | η_{OL} |
|---------------------------|-----------|-------------|-------------|--------------|-------------|
| NKVE 15/02 M MCE22/P IE3 | 2 | $\geq 0,70$ | 61,59 | 65,63 | 64,65 |
| NKVE 15/03 T MCE30/P IE3 | 3 | | 61,59 | 65,63 | 64,65 |
| NKVE 15/04 T MCE30/P IE3 | 4 | | 61,59 | 65,63 | 64,65 |
| NKVE 15/05 T MCE30/P IE3 | 5 | | 61,59 | 65,63 | 64,65 |
| NKVE 15/06 T MCE55/P IE3 | 6 | | 64,68 | 69,13 | 68,28 |
| NKVE 15/07 T MCE55/P IE3 | 7 | | 64,68 | 69,13 | 68,28 |
| NKVE 15/08 T MCE110/P IE3 | 8 | | 64,68 | 69,13 | 68,28 |
| NKVE 15/09 T MCE110/P IE3 | 9 | | 64,68 | 69,13 | 68,28 |
| NKVE 15/10 T MCE110/P IE3 | 10 | | 64,68 | 69,13 | 68,28 |
| NKVE 15/12 T MCE110/P IE3 | 12 | | 64,68 | 69,13 | 68,28 |
| NKVE 15/14 T MCE110/P IE3 | 14 | | 64,68 | 69,13 | 68,28 |
| NKVE 15/16 T MCE150/P IE3 | 16 | | 64,68 | 69,13 | 68,28 |
| NKVE 15/17 T MCE150/P IE3 | 17 | | 64,68 | 69,13 | 68,28 |

| PUMP MODEL | N° STAGES | MEI | η_{PL} | η_{BEP} | η_{OL} |
|---------------------------|-----------|-------------|-------------|--------------|-------------|
| NKVE 20/02 M MCE22/P IE3 | 2 | $\geq 0,70$ | 61,78 | 66,22 | 65,64 |
| NKVE 20/03 T MCE30/P IE3 | 3 | | 61,78 | 66,22 | 65,64 |
| NKVE 20/04 T MCE30/P IE3 | 4 | | 61,78 | 66,22 | 65,64 |
| NKVE 20/05 T MCE55/P IE3 | 5 | | 61,78 | 66,22 | 65,64 |
| NKVE 20/06 T MCE55/P IE3 | 6 | | 64,59 | 69,58 | 68,67 |
| NKVE 20/07 T MCE55/P IE3 | 7 | | 64,59 | 69,58 | 68,67 |
| NKVE 20/08 T MCE110/P IE3 | 8 | | 64,59 | 69,58 | 68,67 |
| NKVE 20/09 T MCE110/P IE3 | 9 | | 64,59 | 69,58 | 68,67 |
| NKVE 20/10 T MCE110/P IE3 | 10 | | 64,59 | 69,58 | 68,67 |
| NKVE 20/12 T MCE150/P IE3 | 12 | | 64,59 | 69,58 | 68,67 |
| NKVE 20/14 T MCE150/P IE3 | 14 | | 64,59 | 69,58 | 68,67 |

| PUMP MODEL | N° STAGES | MEI | η_{PL} | η_{BEP} | η_{OL} |
|-----------------------------|-----------|-------------|-------------|--------------|-------------|
| NKVE 32/2 T MCE 55/P IE3 | 2 | $\geq 0,70$ | 70,08 | 74,12 | 73,16 |
| NKVE 32/3-2 T MCE 55/P IE3 | 3 | | 67,38 | 71,10 | 70,20 |
| NKVE 32/3 T MCE 110/P IE3 | 3 | | 70,08 | 74,12 | 73,16 |
| NKVE 32/4 T MCE 110/P IE3 | 4 | | 70,08 | 74,12 | 73,16 |
| NKVE 32/5-2 T MCE 110/P IE3 | 5 | | 68,40 | 72,20 | 71,44 |
| NKVE 32/5 T MCE 150/P IE3 | 5 | | 70,08 | 74,12 | 73,16 |
| NKVE 32/6 T MCE 150/P IE3 | 6 | | 70,08 | 74,12 | 73,16 |
| NKVE 32/7-2 T MCE 150/P IE3 | 7 | | 68,82 | 72,70 | 72,04 |

| PUMP MODEL | N° STAGES | MEI | η_{PL} | η_{BEP} | η_{OL} |
|----------------------------|-----------|-------------|-------------|--------------|-------------|
| NKVE 45/2-2 T MCE 55/P IE3 | 2 | $\geq 0,70$ | 69,13 | 71,65 | 70,46 |
| NKVE 45/2 T MCE 110/P IE3 | 2 | | 73,47 | 76,37 | 75,25 |
| NKVE 45/3 T MCE 110/P IE3 | 3 | | 73,47 | 76,37 | 75,25 |
| NKVE 45/4 T MCE 150/P IE3 | 4 | | 73,47 | 76,37 | 75,25 |

NOTES



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