

powering the digital revolution		
your challenges, our answers		
flexible range for your needs		
certified quality		
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povering the digital revolution

Our pumps are engineered to meet the unique demands of data center cooling systems, including:

High flow rates | Precision control | Compact design

Low energy consumption | Corrosion resistance

Our pumps are built to capitalize on main data center market trends:

Energy efficiency: reduce PUE by optimizing energy consumption Scalability: compact design to support rapid expansion for hyperscale and edge data centers.

Sustainability: materials compatible with low-GWP (Global Warming Potential) coolant

Al-optimize cooling: engineered for transport of liquid used in direct-to-chip and immersion cooling systems, critical for Al and HPC (High Performance Computing) workloads

Reduced TCO: long service life, minimal maintenance



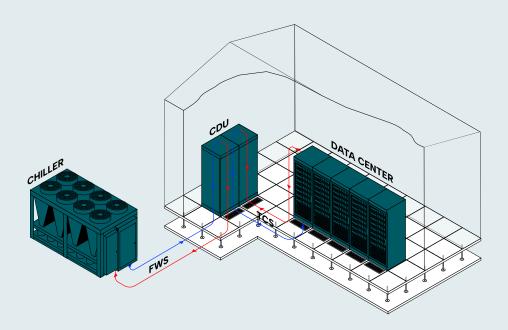






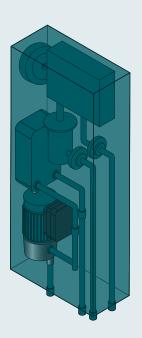
your challenges, our answers

Leveraging our extensive expertise and flexible customization capabilities, we deliver highly reliable water pumping systems that ensure optimal performance across diverse applications.



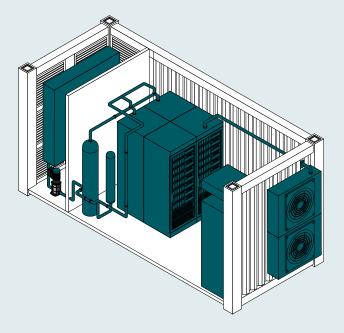
Liquid cooling systems

For circulating cooling fluids throughout a DC liquid cooling system, propelling water from the building's FWS (Facility Water System), driving both primary and secondary coolant loops within the CDU (Coolant Distribution Unit) to manage heat exchange, and moving coolant through the TCS (Technical Cooling System) to directly cool IT equipment.



CDU - embedded pumping systems

Efficiently circulate coolant with precise pressure and flow, ensuring optimal thermal management for high-density IT equipment while seamlessly integrating into the CDU's confined, mission-critical environment.



Containerized edge-DC modules

For containerized edge data centers, the ideal pump is a compact, highly efficient, and exceptionally reliable unit, engineered with intelligent controls and robust construction to ensure continuous, precise cooling in demanding, space-constrained environments.

flexible range for your needs

Calpeda offers a wide product range for diverse applications. Thanks to our expertise and our organizational capabilities, we are able to produce products tailored to specific needs, ensuring efficiency, durability, and high performance.



NM, NMD

Close coupled centrifugal pumps with threaded ports



NM, NMS

Close coupled centrifugal pumps with flanged connections



NR

In-line pumps



Close coupled centrifugal pumps in stainless steel with threaded ports



Horizontal multi-stage close coupled pumps in stainless steel



Vertical multi-stage pumps in-line in stainless steel

certified quality

At Calpeda, our quality policy is centred on meeting and exceeding customer needs. We adhere to the highest standards throughout our production processes, ensuring exceptional product performance and reliable service. Our commitment extends to sustainable production practices. We fully comply with the RoHS directive and REACH regulation, including rigorous control of PFAS content, demonstrating our dedication to environmental responsibility and customer trust.

Product certifications









System certifications







state-of-the-art testing facility

over 1,000 sq. m area



end-of-line test

end-of-line water testing for 100% of products, verifying voltage, current and power consumption



comprehensive assistance

over 2,000 service centres worldwide

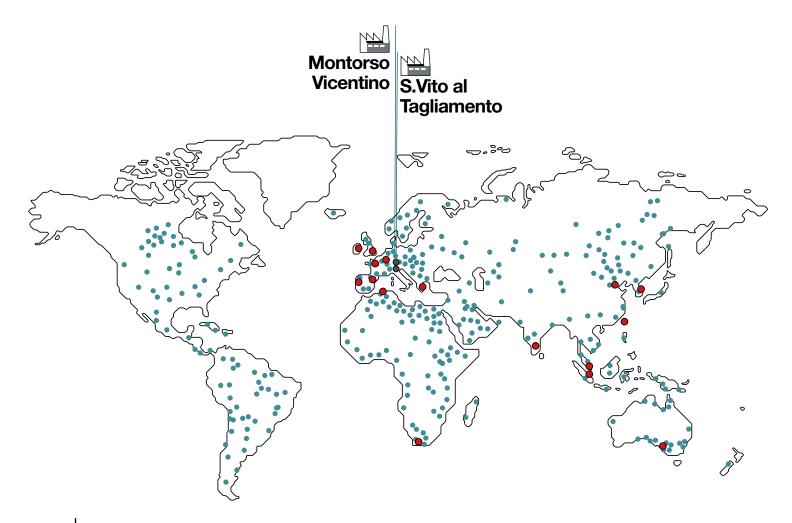


training and support

with dedicated programs

global presence, local service

Since 1959, Calpeda has been designing and manufacturing efficient and sustainable water pumping solutions in Italy, with a strong focus on technology and innovation. With a global presence and an international sales network, we provide optimal support to our customers, ensuring quality, reliability and fast availability of products and spare parts worldwide.





quick deliveries

orders processed in 24 to 48 hours



product availability in stock

high rotation standard parts always in stock



service and spare parts worldwide extended

worldwide extended presence



advanced digital control tools

Close coupled centrifugal pumps with threaded ports



Designation

Example: NMD(4)M 20/140/B

NM = Series

D = Double impeller

4 = 4-pole version (no indication: 2-pole version)

M = Single-phase version (no indication: three-phase)

20 = Delivery port diameter in mm

140 = Nominal impeller diameter

A = Impeller size

/B = It refers to a revision

Construction

Close-coupled, centrifugal pumps; electric motor with extended shaft directly connected to the pump.

NM, NM4: single-impeller

NMD: with two back-to-back impellers

(with axial thrust balancing).

Rated speed of rotation (50 Hz):

NM, NMD \approx 2900 rpm.

NM4 \approx 1450 rpm.

Connections: threaded ports ISO 228/1 (BS 2779).

NM, NMD: version with pump casing and lantern bracket .

The pumps are supplied fully painted.

Operating conditions

Liquid temperature from -10°C to +90°C.

Ambient temperature up to 40°C.

Total suction lift up to 7 m.

Maximum permissible working pressure up to 10 bar (16 bar for pumps NMD 25/190; NMD 32/210; NMD 40/180).

Continuous duty (S3 60% for single-phase pump to 1,5-1,8 kW).

Motor

2-pole induction motor, 50 Hz (n ≈ 2900 rpm).

NM, NMD: three-phase $230/400 \text{ V} \pm 10\%$ up to 3 kW;

 $400/690 \text{ V} \pm 10\% \text{ from 4 to 9.2 kW}$;

NMM, NMDM: single-phase 230 V ± 10%, with thermal

protector.

4-pole induction motor, 50 Hz (n ≈ 1450 rpm).

NM4: three-phase 230/400 V \pm 10%.

Insulation class F.

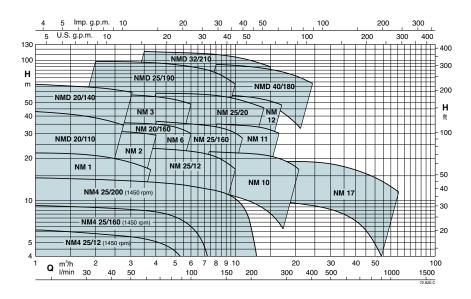
Protection IP54

Motor suitable for operation with frequency converter from 0,37 kW for NM4 and from 1,1 kW for NM,NMD.

IE2 efficiency class for single-phase motors up to 1,1 kW.

IE3 efficiency class for three-phase motors (IE2 up to 0,65 kW). Constructed in accordance with EN 60034-1, EN 60034-30-1,

EN 60335-1, EN 60335-2-41.



n ≈ 2900 rpm n ≈ 1450 rpm

The electropumps comply with the European Regulation no. 547/2012

Special features on request

Other voltages.

Impeller in chrome-nickel stainless steel AISI 316 for: NM 10.., NM 11.., NM 12...

Frequency 60 Hz.

IP protection: IP55.

Special mechanical seal.

Motor suitable for operation with frequency converter up to 0,33 kW for NM4 and up to 0,75 kW for NM,NMD.

Higher or lower liquid or ambient temperatures.

- Cooling mixtures with temperatures from 0 to -30°C.
- Water with temperatures from 90°C to 140°C.
- Oil with temperature up to 200°C and / or maximum density of 30 cSt.

MM, MMS

Close coupled centrifugal pumps with flanged connections



Designation

Example: INM(S)(4)(EI) 32/16A/B

I = Stainless Steel version

(no indication: the pump is in the Cast Iron version)

NM = Series

S = Series Version Stub-Shaft

EI = With frequency converter I-MAT

32 = Delivery port diameter in mm

16 = Nominal impeller diameter

A = Impeller size

/B = It refers to a revision

Construction

NM, NM4 Close-coupled centrifugal pumps; electric motor with extended shaft directly connected to the pump up to 22 kW (15 kW for NM4).

NMS, NMS4 Close-coupled centrifugal pumps, new bracket construction for standard motors (stub-shaft construction) with integrated thrust bearing.

Rated speed of rotation (50 Hz):

NM, NMS ≈ 2900 rpm.

NM4, NMS4 ≈ 1450 rpm.

Pump casing with axial suction and radial delivery on top, main dimensions and performance according to EN 733 with additional sizes for completion. (NMS4 80/400).

NM(S), NM(S)4: version with pump casing and lantern bracket in cast iron.

INM(S), INM(S)4: stainless steel

The pumps are supplied fully painted.

Version with frequency converter (on request)

Connections: Flanges PN 10-16, EN 1092-2 (PN 10 for DN 200).

.....

Operating conditions

Liquid temperature from -10°C to +90°C.

Ambient temperature up to 40° C.

Total suction lift up to 7 m.

Maximum permissible working pressure up to 16 bar (10 bar for NM 32/12; NM,NM4 32/16,20; NM,NM4 40/25; NM,NM4 50/20,25; NM4 65/31; NM,NM4 100/25; NM4 100/315,400; NM4 125/250 and bronze version).

Continuous duty.

Motor

2-pole induction motor, 50 Hz (n ≈ 2900 rpm).

NM, NMS: three-phase 230/400 V \pm 10% up to 3 kW;

 $400/690 \text{ V} \pm 10\% \text{ from 4 to 75 kW}.$

4-pole induction motor, 50 Hz (n ≈ 1450 rpm).

NM4, NMS4: three-phase 230/400 V \pm 10% up to 3 kW;

 $400/690 V \pm 10\%$, from 4 to 90 kW.

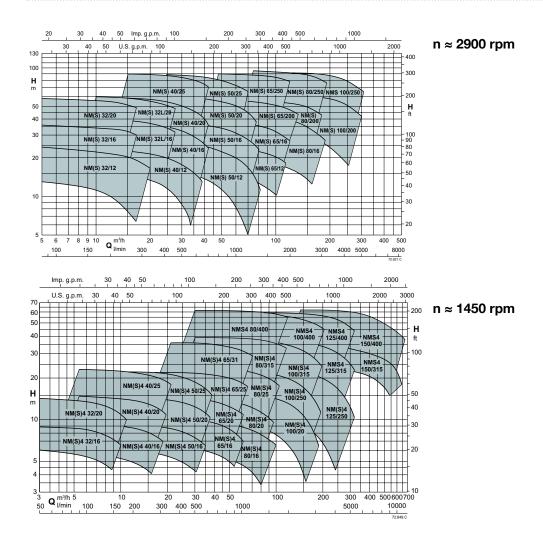
Insulation class F.

Protection IP 54 (IP 55 for NMS, NMS4).

Motor suitable for operation with frequency converter.

Three-phase motors with efficiency class IE2 up to 0.65 kW, IE3 from 0.75 to 55 kW, IE4 from 75 kW.

Constructed in accordance with: EN 60034-1; EN 60034-30-1.



The electropumps comply with the European Regulation no. 547/2012

Special features on request

Other voltages.

Impeller in chrome-nickel stainless steel for: from 32/ to 80/

Frequency 60 Hz.

Protection IP 55.

Special mechanical seal IE4 efficiency class for three-phase motors

Single-phase motor (NMM) up to 1,8 kW.

Higher or lower liquid or ambient temperatures.

- Cooling mixtures with temperatures from 0 to -30°C.
- Water with temperatures from 90°C to 140°C.
- Oil with temperature up to 200°C and / or maximum density of 30 cSt.

In-line pumps



Designation

Example: INR(D)(4) El 50/125A/A

I = Stainless Steel version

(no indication: the pump is in the Cast Iron version)

NR = Series

4 = 4-pole version (no indication: 2-pole version)

D = Twin head

EI = With frequency converter I-MAT

50 = Delivery port diameter in mm

125 = Nominal impeller diameter

A = Impeller diameter

/A = It refers to a revision

Construction

Close-coupled, single-impeller, centrifugal pumps;

electric motor with extended shaft directly connected to the pump.

NR, NR4 series: Single head electropumps.

NRD, NRD4: Twin head pump with built-in automatic switching valve. The two head can operate singularly or in parallel.

Pump casing with suction and delivery connections with the same diameter and on the same axis (in-line).

Connections: Flanges according to PN 10, EN 1092-2.

Operating conditions

Liquid temperature from -10°C to +90°C.

Ambient temperature up to 40° C.

Total suction lift up to 7 m.

Maximum permissible working pressure up to 10 bar.

Continuous duty (S3 60% for single-phase pump to 1,5 kW).

Motor

2-pole induction motor, 50 Hz (n ≈ 2900 rpm).

NR(D): three-phase $230/400 \text{ V} \pm 10\%$ up to 3 kW;

 $400/690 \text{ V} \pm 10\% \text{ from 4 to 18,5 kW}$.

NRM:single-phase $230 \text{ V} \pm 10\%$.

4-pole induction motor, 50 Hz (n ≈ 1450 rpm).

NR4: three-phase $230/400 \text{ V} \pm 10\% \text{ up to 3 kW}$;

 $400/690 \text{ V} \pm 10\% \text{ for } 4 \text{ kW}.$

Insulation class F.

Protection IP 54.

Motor suitable for operation with frequency converter from 0,37 kW for NR4 and from 1,1 kW for NR(D).

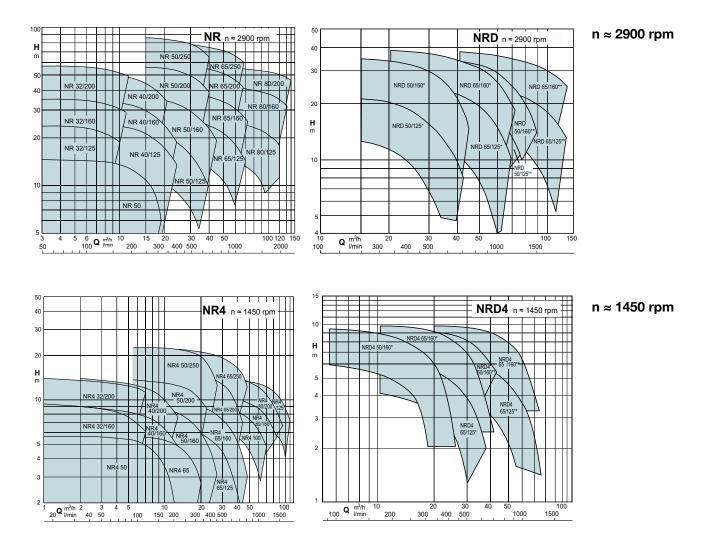
IE2 efficiency class for single-phase motors up to 1,1 kW.

IE3 efficiency class for three-phase motors (IE2 up to 0,65 kW).

Constructed in accordance with:

EN 60034-1; EN 60034-30-1.

EN 60335-1, EN 60335-2-41.



The electropumps comply with the European Regulation no. 547/2012

Special features on request

Other voltages.

Impeller in chrome-nickel stainless steel (except NR(4) 32... NR4 100 and NR4125)

Frequency 60 Hz.

Protection IP 55.

Special mechanical seal.

Higher or lower liquid or ambient temperatures.

Motor suitable for operation with frequency converter up to 0,33 kW for NR(D)4 and up to 0,75 kW for NR(D).



Close coupled centrifugal pumps in stainless steel with threaded connections



Construction

Close-coupled, centrifugal pumps; electric motor with extended shaft directly connected to the pump.

Connections: threaded ports ISO 228/1 (BS 2779).

NMX: Version in AISI 304. NMXL: Version in AISI 316.

Operating conditions

Liquid temperature from -10°C to +90°C.

Ambient temperature up to 40° C.

Maximum permissible working pressure up to 10 bar.

Continuous duty (S3 60% for single-phase pump to 1,5-1,8 kW).

Designation

Example: NMX(L)M 25/70B/B

NMX = Series

L = Version in AISI 316.

M = Single-phase version (no indication: three-phase)

25 = Delivery port diameter in mm

70 = Hydraulic code

B = Impeller size

/B = It refers to a revision

Motor

2-pole induction motor, 50 Hz (n ≈ 2900 rpm).

NMX: three-phase 230/400 V \pm 10%.

NMXM: single-phase 230 V \pm 10%, with thermal protector.

Insulation class F.

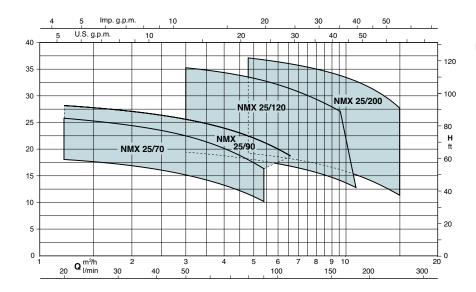
Protection IP54.

Motor suitable for operation with frequency converter from 1,1 kW.

IE2 efficiency class for single-phase motors up to 1,1 kW.

 $\ensuremath{\mathsf{IE3}}$ efficiency class for three-phase motors (IE2 up to 0,65

kW). - Constructed in accordance with EN 60034-1, EN 60034-30-1, EN 60335-1, EN 60335-2-41.



n ≈ 2900 rpm

Special features on request

Other voltages.

Frequency 60 Hz (as per 60 Hz data sheet).

IP protection: IP55.

Special mechanical seal.

Higher or lower liquid or ambient temperatures.

Motor suitable for operation with frequency converter up to 0,75 kW.



Horizontal multi-stage close coupled pumps in stainless steel





Designation

Example: MXH(L) (-V, -F) El 206/B

MXH = Series

L = Version in 1.4401 EN 10088 (AISI 316) for MXH 2, 4, 8

(-V) = Version with Victaulic couplings for MXH 32, 40

(-F) = Version with flanged ports for MXH 20, 32, 40

EI = With frequency converter I-MAT

2 = Rated flaw in m³/h

06 = Number of impellers

/A = It refers to a revision

Construction

One-piece horizontal multi-stage pumps made of AISI 304 chrome-nickel stainless steel, AISI 316L steel for MXHL 2, 4, 8.

Compact and robust construction, with compact lantern bracket and motor with feet.

Single-piece barrel casing, with front suction port above pumps axis and radial delivery at top.

Version with frequency converter (on request)

Operating conditions

Liquid temperature: from -15°C to +110°C.

Ambient temperature up to 40°C.

Maximum permissible final pressure in the pump body:

10 bar, 8 bar per MXH 16.

Continuous duty (S3 60% for single-phase pump to 1,5-1,8 kW).

Motor

2-pole induction motor, 50 Hz (n ≈ 2900 rpm).

MXH: three-phase 230/400 V \pm 10% up to 3 kW;

 $400/690 \text{ V} \pm 10\%$, from 3.7 to 7.5 kW;

MXHM single-phase single-phase 230 V \pm 10%, with thermal protector.

Capacitor inside the terminal box.

Insulation class F.

Protection IP 54.

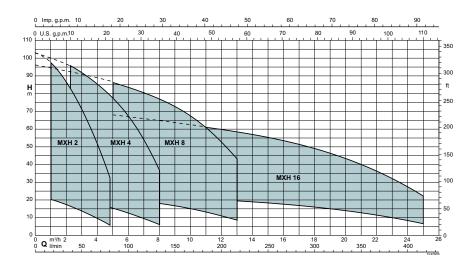
Motor suitable for operation with frequency converter from 1,1 kW.

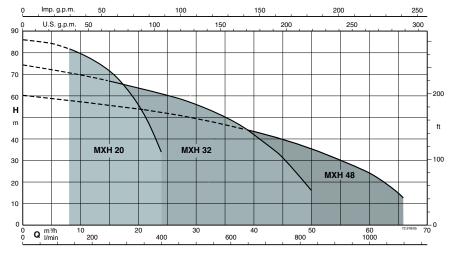
IE2 efficiency class for single-phase motors up to 1,1 kW.

IE3 efficiency class for three-phase motors (IE2 up to 0,65 kW).

Constructed in accordance with EN 60034-1; EN 60034-30-1.

EN 60335-1, EN 60335-2-41.





Special features on request

Pumps with ports with Victaulic couplings (-V) for MXH versions 32, 40.

Pumps with flanged ports (-F) for MXH versions 20, 32, 40.

Other voltages.

Frequency 60 Hz.

Protection IP 55.

Special mechanical seal.

Pump casing seal rings in FPM.

Higher or lower liquid or ambient temperatures.

Motor suitable for operation with frequency converter up to 0,75 kW.



Vertical multi-stage pumps in-line in stainless steel



Designation

Example: MXV L El 25-305 O H1 *

MXV = Series

L = AISI 316L version

(no code = AISI 304 version)

EI = With frequency converter I-MAT

25 = DN ports in mm

3 = Rated capacity in m³/h

05 = Number of stages

O = oval flange ports (only for MXV(L) 25,32,40,50)

H1 = with support feet

for horizontal installation H, variant 1

* = with motor (or without motor)

* with no further designation = with standard motor

Construction

Vertical multi-stage pumps with suction and delivery connections of the same diameter and arranged along the same axis (in-line).

Corrosion-resistant bearing sleeves lubricated by the pumped liquid.

Removal of the mechanical seal without dismantling the motor (for MXV 25-32- 40-50,100 with motors exceeding 4 KW).

A pump with thrust bearing and sleeve coupling for use of any standard motor with IM V1 construction.

Version with frequency converter (on request).

Operating conditions

Temperature of liquid: from -15°C to +110°C.

Ambient temperature up to 40°C.

Maximum permissible pressure in pump casing: 25 bar,

(16 bar for pumps with oval flanges).

Continuous duty.

Motor

Standard-type: 2-pole induction motor, 50 Hz (n ≈ 2900 rpm).

Motor suitable for operation with frequency converter.

Classification scheme IE3 for three-phase motors from 0,75 kW.

Construction IM V1.

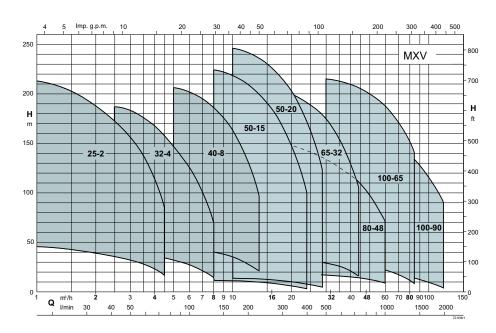
Insulation class F.

IP protection: IP55

Three-phase with rated voltage:

up to 3 kW 230/400 V;

from 4 kW 400/690 V.



n ≈ 2900 rpm

The electropumps comply with the European Regulation no. 547/2012

Special features on request

Pump with flanged ports.

Pump with oval flange ports (O) (for MXV 25,32,40,50).

Pump without motor.

Pump with standard motor.

O-rings FPM.

Other mechanical seal.

Pump with motor of Client's choice (if available).

Single-phase motor 230 V, up to 2.2 kW.

Pump with support feet for horizontal installation (H1 or H2).

Other voltages.

Frequency 60 Hz.



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