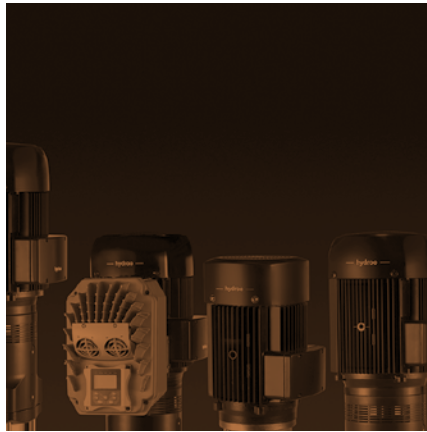
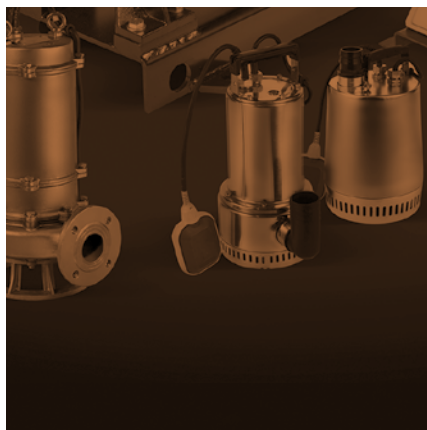
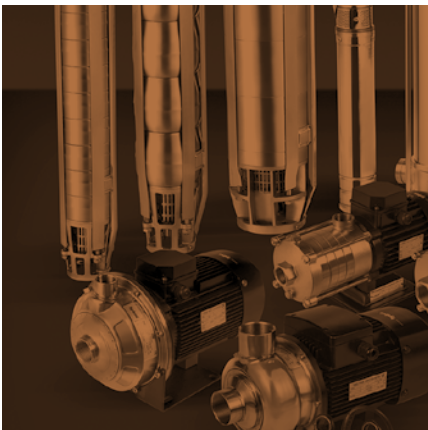


hydroo®



BE PUMPING PARTNERS





CONTENTS

PRESENTATION	05
HY5 COMMITMENT	06
VDROO SERIES	
VF, VX, VN Vertical multistage pumps	09
VTPX, VTPN, VTPSX, VTPSN, VTPSD, VTPMD High pressure sets	10
VKF, VKX, VKN Immersion cooling pumps	11
HDROO SERIES	
HF, HX, HN Horizontal multistage pumps	12
HJ Self-priming centrifugal pump	13
MDROO SERIES	
MX, MN Horizontal single stage pumps	14
MXO, MXC Horizontal open impeller pumps	15
NDROO SERIES	
NSX, NSN EN733 stainless steel pumps	16
NLF, NLFX Normalized end suction pumps	17
HSC Split casing pumps	18
HZ Polymeric pumps	19
HQX Gas-liquid self priming pumps	20
TDROO SERIES	
TF, TX Circulation in-line pumps	21
KDROO SERIES	
KN Swimming pool pumps	22
SDROO SERIES	
SX, SN Submersible bore hole pumps	23
S3P, S3.5P, S4P Submersible borehole pumps	24
SXB Compact 5" submersible pumps	25
WDROO SERIES	
WRAIN, WUP Drainage pumps	26
WF, WG, WX Submersible waste water pumps	27
WPF, WPX Self priming pumps	28
XDROO SERIES	
XBOOST Booster sets	29
XFIRE Fire fighting sets	30

hydroo®



PRESENTATION

HYDROO has set up a worldwide distribution network with key partners and is providing value to pump engineers and end users. We have an extensive pump portfolio with high-end solutions for many applications, including water-supply booster sets, fire-fighting equipment, borehole, HVAC, drainage and sewage, utilities, irrigation, desalination and RO equipment, and OEM integration, among many others. We provide solutions for all markets for 50 Hz and 60 Hz, including customized versions.

HYDROO has a factory in Palol de Revardit (Catalonia- Spain). It's been sized to guarantee our reliable, long-term, personalized manner and offer the best service to all our customers. We provide a wide range of products in an extremely short delivery time, thanks to our Lean manufacturing processes and our qualified professional and enthusiastic team.

Our commitment to ethics and legislation in relation to third parties is compiled in a public document of principles. The document has been agreed upon by the entire Hydroo team and its implementation is being coordinated by a committee to ensure the compliance and strengthening of the corporate culture in the whole company.

The expansion of Hydroo is based on excellence in operations and a successful business relationship with partners. Therefore, we face a strong growth in the target market. We are fully audited by SGS for ISO9001 and ISO14000 standards annually.

At **HYDROO**, we are committed to providing excellent service to our valued pump partners.

Hy5 commitment

Global water challenges require excellence in pumping technologies and close cooperation between pump designers, manufacturers and pump engineers.

In order to meet our customers' needs in the most demanding pump installations, we are firmly committed to designing and manufacturing the best pumps in the market.

Therefore, we have our own open and public Hy5 commitment, which is summarized in 5 main values:



Highest pump performance is related to the detailed design of the motor and the hydraulics. We use high-end technical resources to reach the best-in-the-market results. Maximized hydraulic efficiency and IE3 standard motors achieve a unique leading pump concept: robust, reliable, flexible, user-adjustable, smart and multi-purpose.



Added value relies on the selection of material, the industrial process of the components production and the usable design of all the individual details. Pump flexibility, high line-up of options and personalized service are our added value.



Quality assurance is a key factor for added value products. Monitoring the pump quality, the crafted manufacturing processes and expedition quality are integrated in our core service offer. Moreover, variable frequency drivers are available to get the best pump service in any kind of installation. The world is constantly evolving and we contribute towards this with warmth and commitment.



The environment is at the core of our company philosophy. All processes consider the minimum impact in our own home. Within our designing processes, we take into account all individual requirements to get the best results and the lowest impact on the environment.



We take care of our customers' pumps. We are our customers' factory and they deserve our full commitment to excellence and exemplary corporate culture. We consider no boundaries within the value chain, from industrial installation engineering to pump managing. This vision results in a close cooperation with all players to get the best pumping solution.

You can also visit us at
www.hydroo.com



VF VX, VN

Vertical multistage
stainless steel
centrifugal pump

Applications

Cooling water system /
Municipal water supply
and boosting / Domestic
water supply / Irrigation /
General industrial services
/ Washing plants / Boiler
feed and condensate
system / Water treatment

Description

Vertical multistage in-line centrifugal pumps made in Stainless Steel.

Standard IE3 motors totally enclosed, fan cooled, insulation class F, IP 55. Single phase motors up to 2,2 kW.

Standard versions are suitable for smart pumping of clean water with a temperature range between -15 °C and 120 °C.

They are certified according to WRAS and ACS.

VF version: hydraulic part in AISI304 SS, pump inlet/outlet made in cast iron.

VX, VN version: whole pumps available in AISI304 (X version) or AISI316L (N version). Duplex versions upon request (sizes VD 32~200).

Performance range

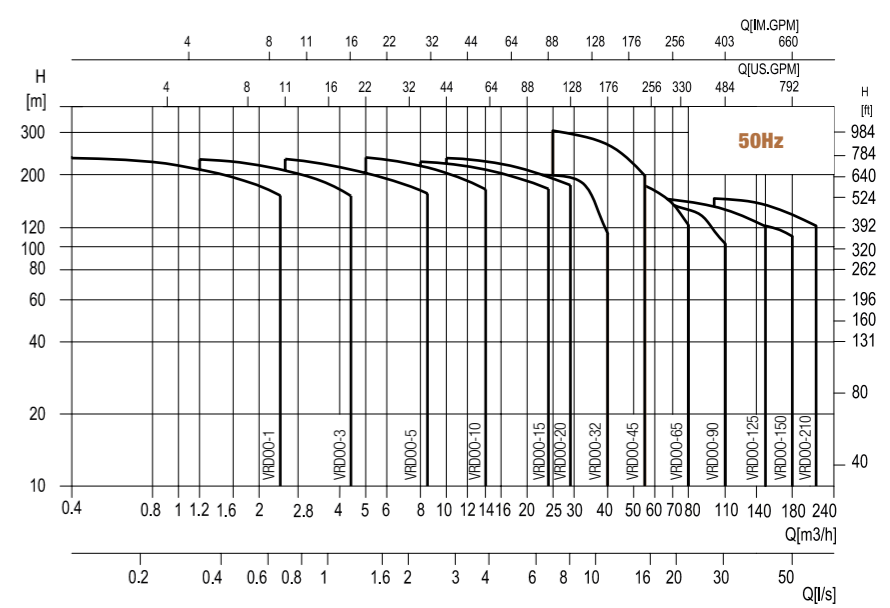
Flow range: up to 240 m³/h
Head: up to 305 m
Temperature: up to 120 °C
Speed: 2900 rpm or 3500 rpm
Power: up to 110 kW

Standard material

Standards versions made in cast iron or 304 stainless steel, 316 stainless steel and Duplex on request.



Performance scope



VTPX, VTPN, VTPSX, VTPSN, VTPSD, VTPMD

High pressure twin
pump sets

Applications

Water treatment by ultra-
filtration
RO systems
Booster systems
High pressure flushing
systems
Water supply
Sea water desalination

Description

Twin pump in-line set made in stainless steel.

Standard IE3 motors totally enclosed, fan cooled, insulation class F, IP 55. Pump inlet/outlet bodies are set in serial with Victaulic connections.

Whole pumps available in AISI304, AISI316L or Duplex.

High pressure sets VTPX, VTPN: twin pumps in serial up to 48 bar pressure for RO applications.

VTPS / VTPMD booster sets: twin pumps in serial up to 74 bar for RO applications.

Performance range

Flow range: up to 55 m³/h
Head: up to 740 m
Temperature: up to 70 °C
Speed: 2900 rpm or 3500 rpm
Power: up to 55 kW

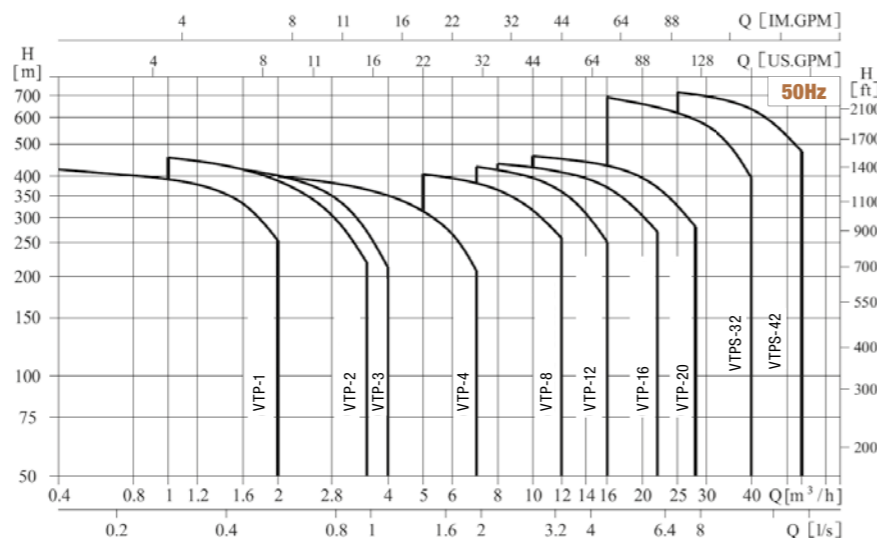
Standard material

All the parts in contact with liquid are made of AISI304 SS. AISI316 SS and Duplex available on request.

The pump head and inlet/outlet pump body is made of AISI304, AISI316 SS or Duplex SS precision molding.



Performance scope



For higher performances, please contact our Application Engineering Service.

VKF VKX, VKN

Immersion type
multistage
centrifugal pump

Applications

Machine tools cooling
systems
Industrial washing systems
Chiller units
Industrial filtration systems
Other industrial
applications

Description

Non self-priming immersion multistage centrifugal pumps made in Stainless Steel. Standard IE3 motors totally enclosed, fan cooled, insulation class F, IP 55.

Flexible installation length to meet the requirements of installation depth of the water tank or vessel, by means of cavity bodies.

Standard version can be used for conveying water, cooling water solutions and cutting lubricating liquids. Versions for hot water up to 120 °C are also available on request.

Ask for special immersion depths to match any installation requirement.

Performance range

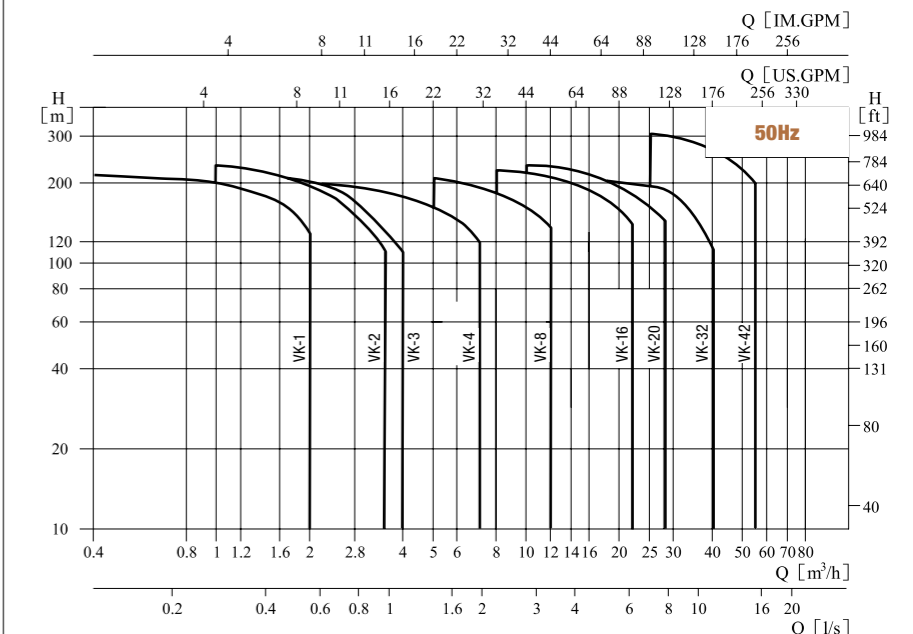
Flow range: up to 55 m³/h
Head: up to 305 m
Temperature: up to 120 °C
Speed: 2900/3500 rpm
Power: up to 45 kW

Standard material

Cast iron, stainless steel 304 or Stainless steel 316 on request.



Performance scope



HF HX, HN

Horizontal
multistage
stainless steel
centrifugal pump

Applications

Cooling water system
Agriculture
Domestic water supply
General industrial services
Washing
Environment protection

Description

Light horizontal multistage centrifugal pumps made in Stainless Steel. Standard IE3 motors totally enclosed, fan cooled, insulation class F, IP 55. Single phase motors up to 2,2 kW.

Standard versions are suitable for smart pumping of clean water with a temperature range between -15 °C and 70 °C. Versions for hot water up to 110 °C are available on request.

Performance range

Flow range: up to 32 m³/h
Head: up to 88 m
Temperature: up to 110 °C
Speed: 2900 rpm or 3500 rpm
Power: up to 7,5 kW

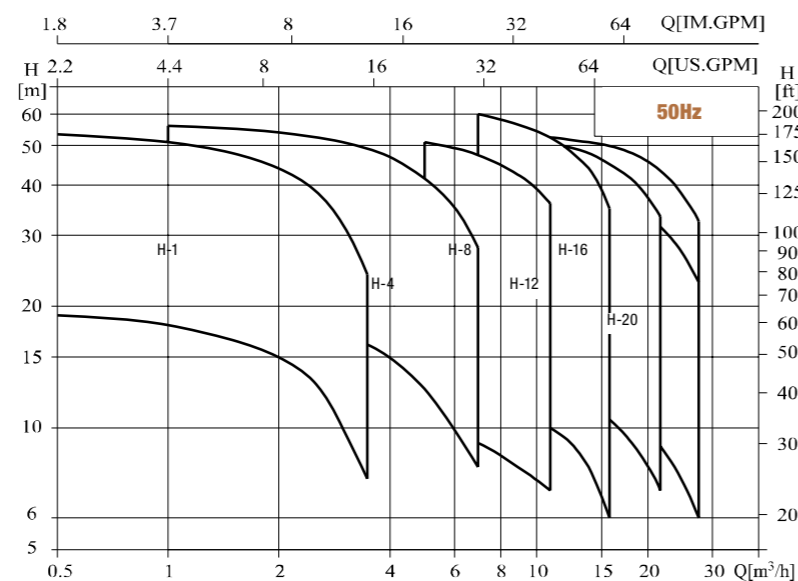
Standard material

HF: pump inlet and outlet in cast iron.

HX, HN: standard version made in AISI304 or AISI316 L stainless steel; pump inlet and outlet in stainless steel.



Performance scope



HJ

Self-priming
centrifugal pump

Applications

Water supply from wells
or reservoirs
Domestic, civil and
industrial applications
Garden and irrigation

Description

"Self-priming centrifugal pump made in Stainless Steel. Self-priming up to 9 m."

Single phase motors with built-in thermal protector.

Insulation class: B. Protection class: IP44. Max. ambient temperature: +40°C

Performance range

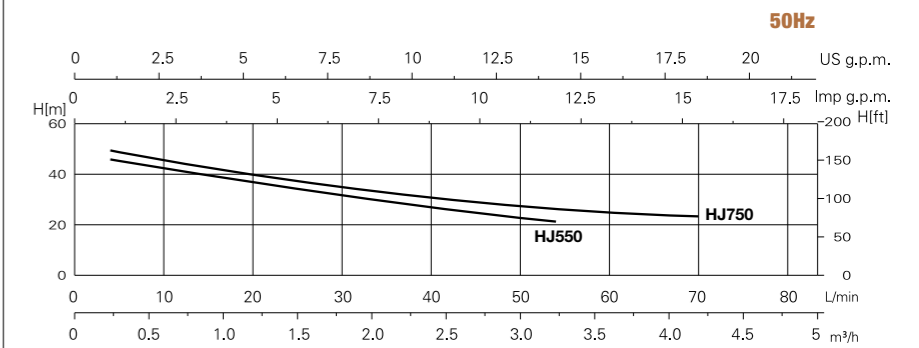
Flow range: 0,2- 4,2 m³/h
Head: 21- 48 m
Max. liquid temperature: +60°C
Speed: 2900 rpm
Power: up to 0.75 kW

Standard material

Cast iron, stainless steel 304 or Stainless steel 316 on request.



Performance scope



MX MN

Stainless steel
horizontal
single-stage
centrifugal pump

Applications

Water treatment systems
Water supply: Family
houses, small hotels and
small office buildings
Family gardening irrigation
systems
Other pressure boosting
systems

Description

Light horizontal single-stage centrifugal pumps made in AISI304 SS, with threaded inlet and outlet for easy installation and service. Standard IE3 motors totally enclosed, fan cooled, insulation class F, IP 55. Single phase motors up to 2,2 kW.

Standard versions are suitable for smart pumping of clean water with a temperature range between -10 °C and 85 °C.

Performance range

Flow range: 1.2 ~ 26 m³/h

Head: 10 ~ 40 m

Temperature: -10 °C ~ +85 °C

Speed: 2900 rpm or 3500 rpm

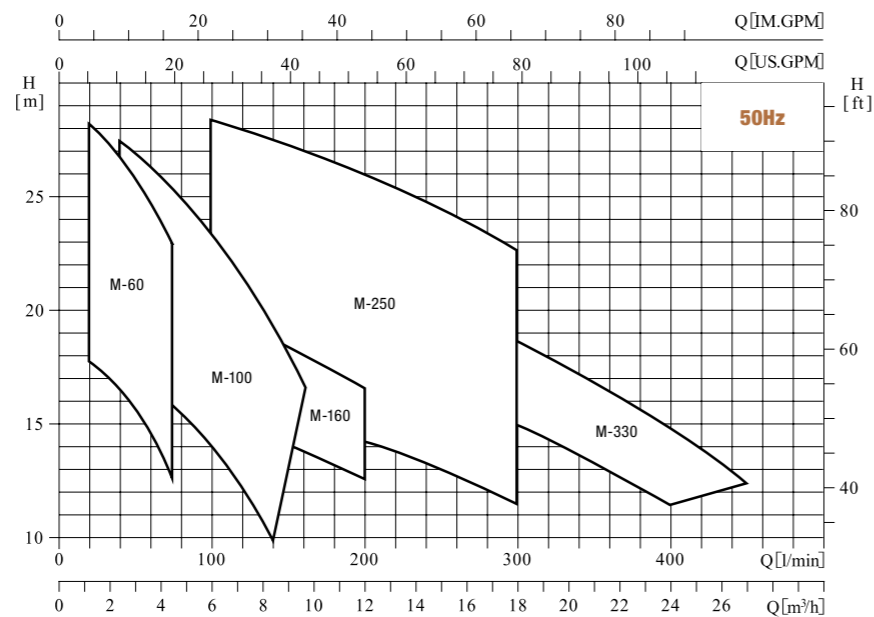
Power: up to 2,2 kW

Standard material

Stainless steel. AISI304.
AISI316 available on request.



Performance scope



MXC MXO

Open impeller
single stage pumps

Applications

Cooling systems
Main HVAC applications
Industrial washing machines
Supply of water in buildings,
farms or fountains

Description

Single stage pump, monobloc version, made of AISI304 SS with open (MXO) or semi open impeller (MXC) available for demanding applications with temperatures between -10 °C and +90 °C. Single stage version also available up to 2,2 kW.

Performance range

Flow range: up to 60 m³/h

Head: up to 22 m

Temperature: -10 °C to +90 °C

Speed: 2950 rpm

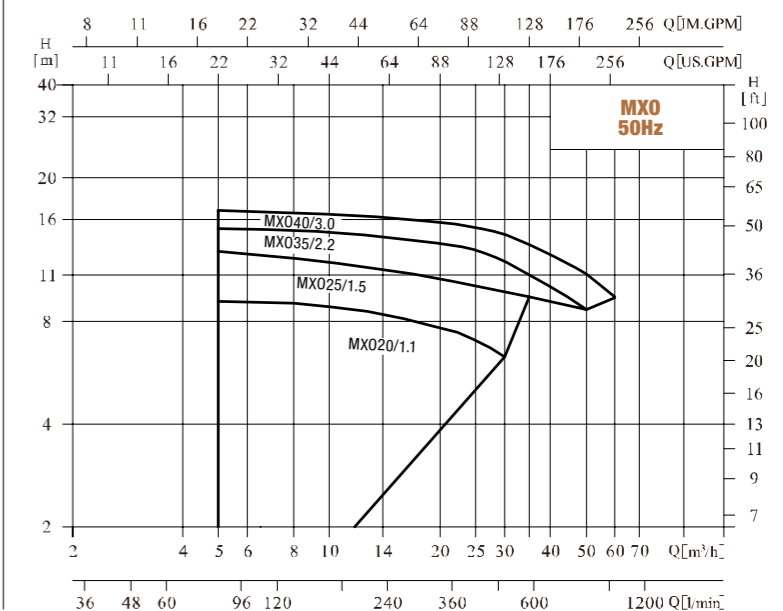
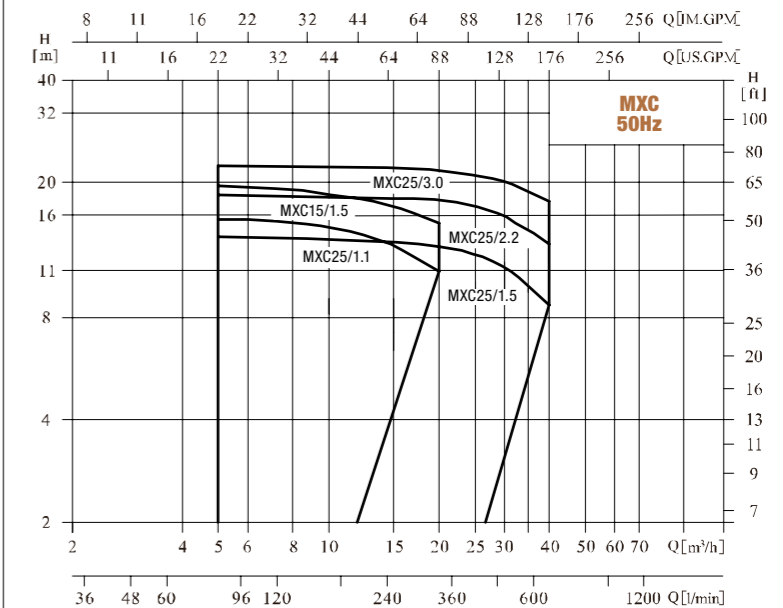
Power: up to 3 kW

Standard material

Fully made of AISI304 SS.



Performance scope



NSX NSN

Stainless steel
horizontal
single stage
centrifugal pump

Applications

Cooling water
Water supply and
distribution
Drainage
General industrial services

Description

Horizontal single-stage centrifugal pumps made in Stainless Steel. Standard IE3 motors totally enclosed, fan cooled, insulation class F, IP 55.

Standard versions are suitable for smart pumping of clean water with a temperature range between -20 °C and 100 °C.

Performance range

Flow range: up to 200 m³/h

Head: up to 70 m

Temperature: up to 100 °C

Speed: 2900 rpm or 3500 rpm

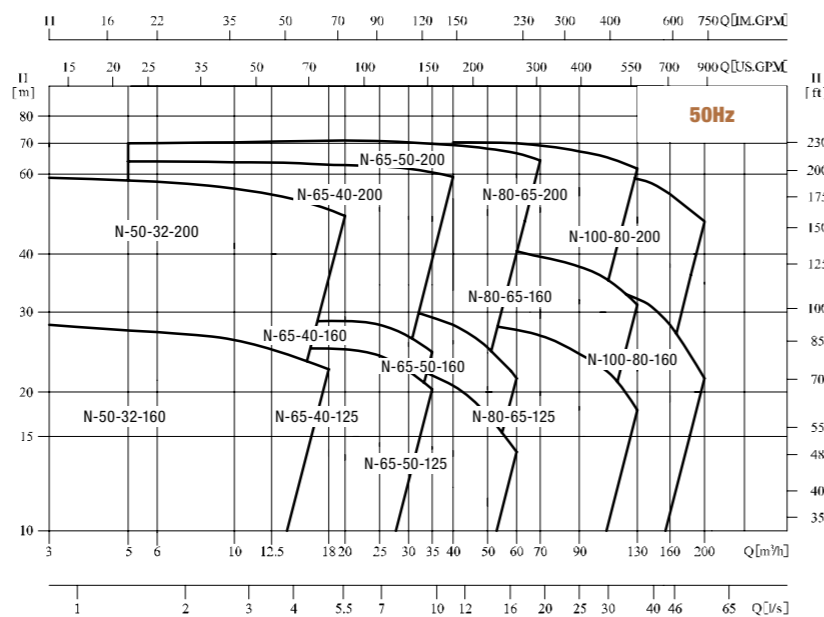
Power: up to 37 kW

Standard material

All the parts in contact with the liquid are made in AISI304 Stainless Steel. Standard mechanical seals made in Carbon / Silicon Carbide. Other specifications are available on request. AISI316 version on request.



Performance scope



NLF NLFX

Single stage
end suction
centrifugal pump

Applications

Cooling water
Water supply and
distribution
Drainage
Irrigation
General industrial services
Fire protection

Description

Back pull out design for fast and easy maintenance. Standard IE3 motors totally enclosed, fan cooled, insulation class F, IP 55.

Performance range

Flow range: up to 800 m³/h

Head: up to 160 m

Temperature: up to 110 °C

Speed: 2900/1450 rpm

Power: up to 160 kW

Standard material

Casing: Cast iron

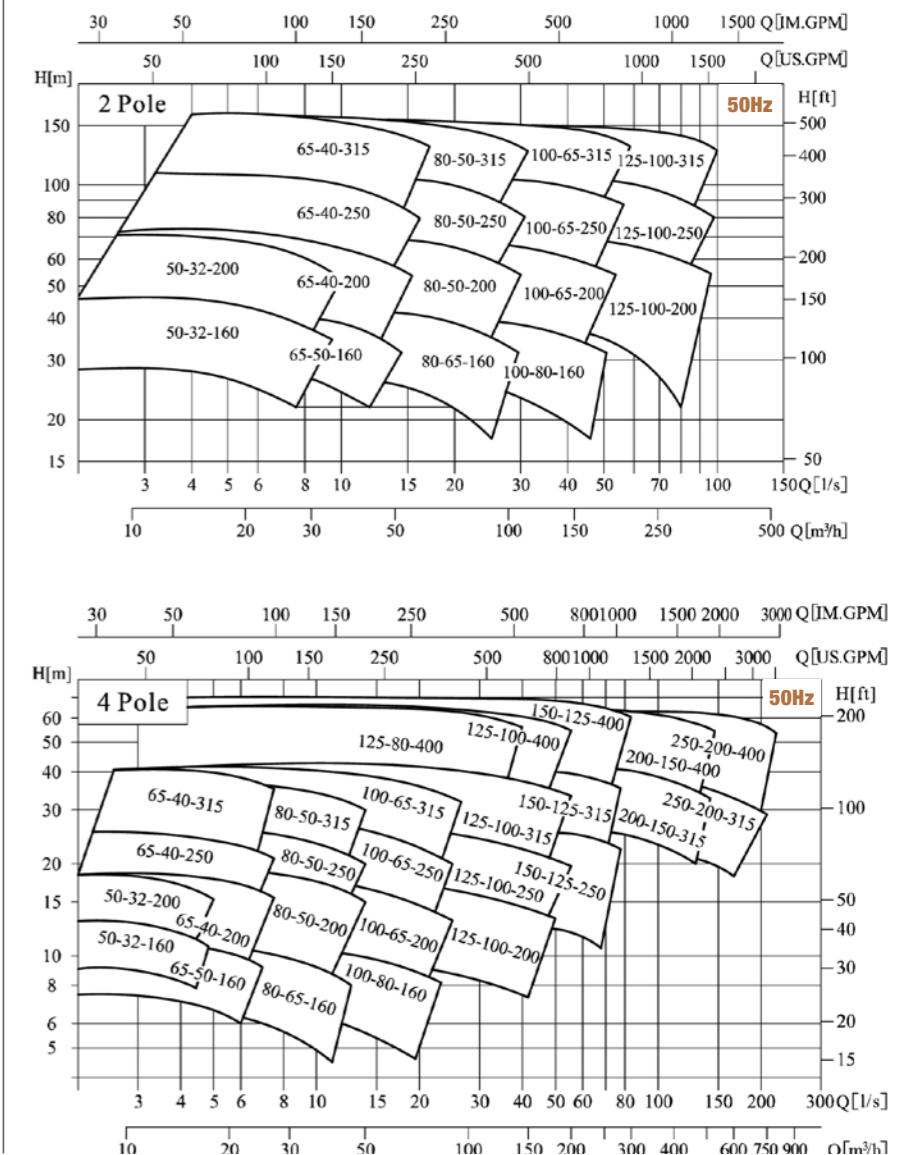
Impeller: Cast iron, SS or bronze

Shaft: Stainless steel

Close-coupled versions with rigid coupling are also available in most of the sizes.



Performance scope



HSC

Single stage
double suction
split case pump

Applications

Cooling water
Water supply and
distribution
Fire protection
Metal manufacturing
Irrigation
General industrial services
Sea water

Description

The casing is axially split, which permits removal of the complete rotor without moving either piping nor motor. Pumps generating high heads have double volutes to reduce radial forces. Replaceable wear ring protects the casing at the impeller running clearances. Flange drilled to ISO, DIN, BS or ANSI.

The closed double suction impeller gives practically zero axial forces. Each impeller is statically and dynamically balanced according to ISO1940.

High flexibility versions available: vertical or horizontal, soft packing or mechanical seal, grease or oil lubrication bearing on request.

Performance range

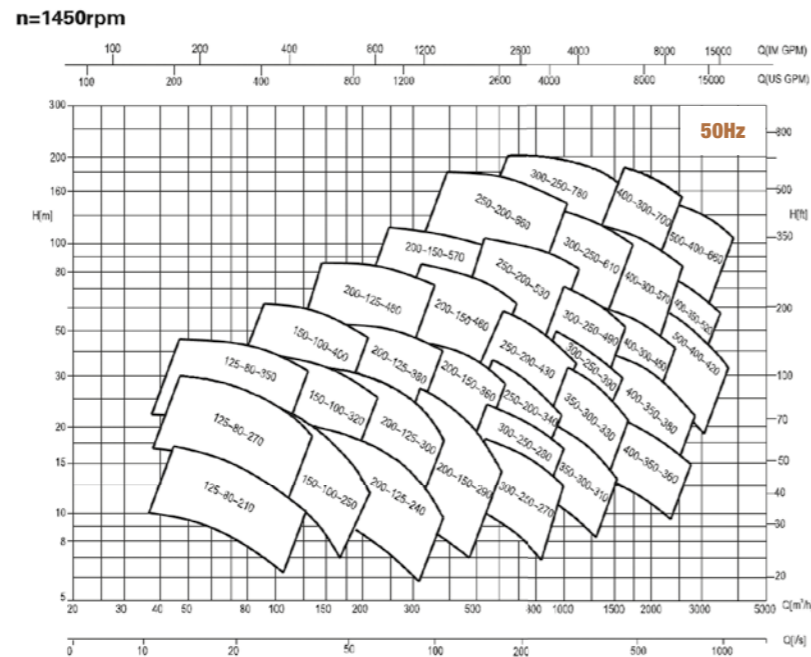
Flow range: up to 24000 m³/h
Head: up to 200 m
Temperature: up to 105 °C
Speed: 2900/1450/980/740/580 rpm
3500/1750/1180/890/710 rpm

Standard material

All pump parts can be made in any kind of materials on request: cast iron, bronze or special SS alloys.



Performance scope



For other performance curves, please contact our Application Engineering Department.

HZ

Polymeric end
suction pump

Applications

Alkali & acid production
Metal smelting industry
Chemical synthesis
Paper-making industry
Textile dyeing and finishing
systems
Pickling processes in
electroplating
Other corrosive liquids
transferring

Description

HZ pump has one impeller, axial suction and radial discharge.

Simple structure, shaft is directly connected with impeller.

Easy for pipe works, inlet and outlet are connected by standard flanges.

Wet parts are made in polymeric fluorine, accessories are made of cast iron (GG20).

Performance range

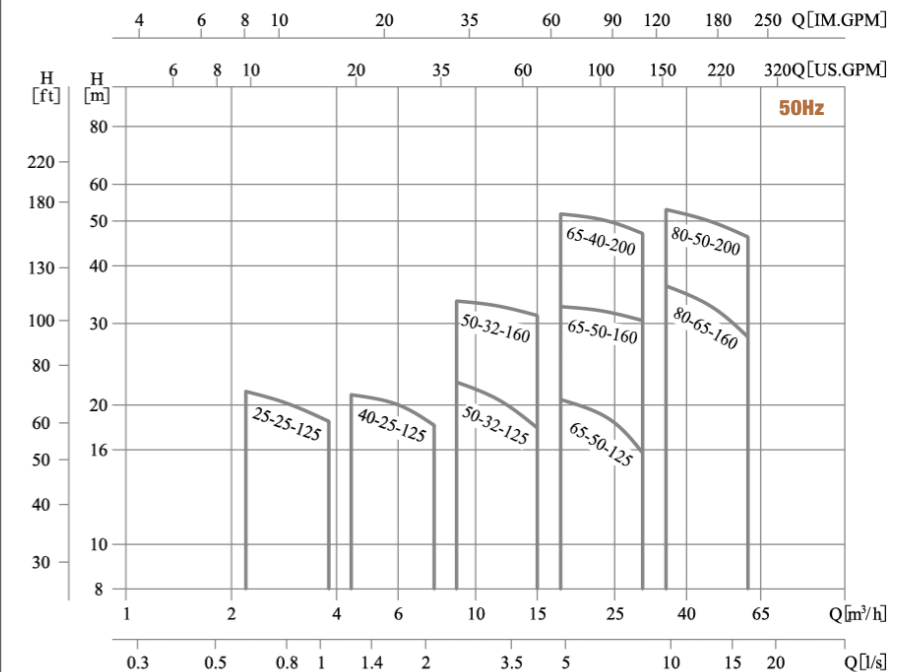
Flow range: 2.2 ~ 60 m³/h
Head: 16 ~ 52 m
Temperature: -20 °C ~ +120 °C
Speed: 2900 rpm
Power: up to 18,5 kW

Standard material

F42, F46, GG20.



Performance scope



HQX

Stainless steel
self-priming
gas-liquid pump

Applications

Air-float treatment facilities
Ozone water generator
Heavy-oxygen-enriched
water generator
Biochemical aeration
devices
Other industrial
applications

Description

HQX and HQXL designed for clear and low viscosity liquid, or liquid containing extra-fine foreign matters.

HQXB and HQXBL designed for clear and low viscosity liquid, or explosive flammable liquid wich containing very little solids.

It is simple in structure and operation, easy in maintenance and durable and needs less components. It has a good self suction capacity and a wide application range.

Performance range

Flow range: 0.5 ~ 18 m³/h

Head: 10 ~ 70 m

Temperature: -15 °C ~ +120 °C

Speed: 2900 rpm or 3500 rpm

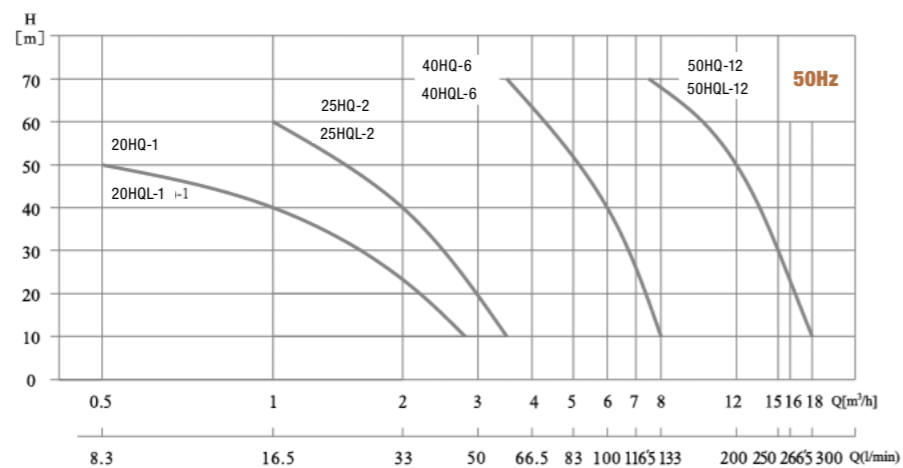
Power: up to 7,5 kW

Standard material

AISI304 Stainless steel.



Performance scope



TX TF

Vertical in-line
circulation pump

Applications

Cooling water
Water supply/distribution
Drainage
Irrigation
General industrial services
Boosting

Description

Vertical in-line circulation pumps. Standard IE3 motors totally enclosed, fan cooled, insulation class F, IP 55. Single phase motors up to 2,2 kW.

Standard versions are suitable for smart pumping of clean water with a temperature range between -15 °C to 110 °C, on request.

Performance range

Flow range: up to 750 m³/h

Head: up to 90 m

Temperature: up to 110 °C

Speed: 2900/1450 rpm

3500/1750 rpm

Power: up to 132 kW

Standard material

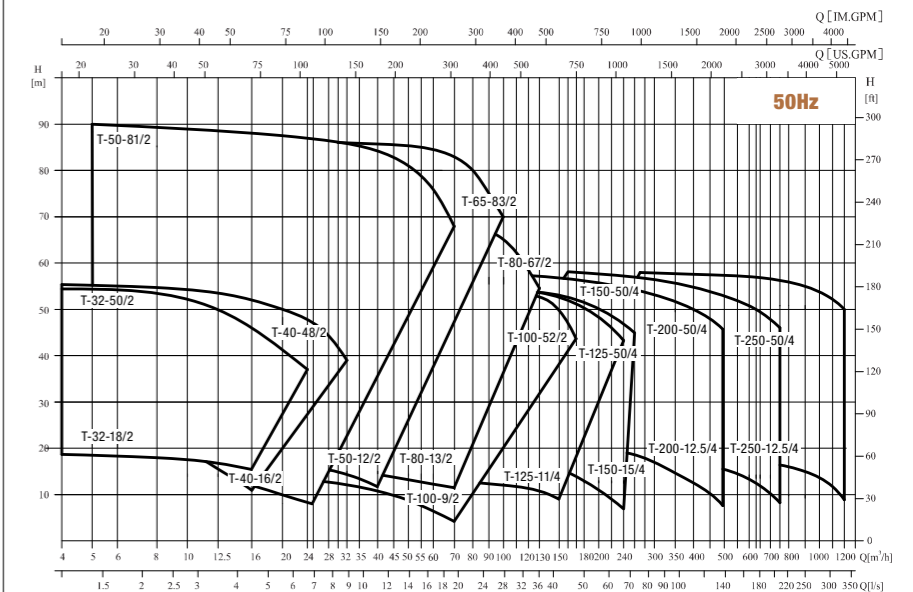
Casing: Cast iron

Shaft: Stainless steel

Impeller: Cast iron or stainless steel
304. SS316 on request



Performance scope



KN

Stainless steel swimming pool pumps

Applications

Swimming pool
Fountains

Description

Horizontal single-stage centrifugal pumps and filter both made in Stainless Steel. Standard totally enclosed, fan cooled, insulation class F, IP 55 motors. Single phase motors up to 2,2kW.

Standard versions are suitable for smart pumping of clean water with a temperature range between -20 °C and 100 °C.

Performance range

Flow range: 5- 200 m³/h

Head: 14- 31 m

Temperature: -20 °C ~ +100 °C

Speed: 2900 rpm

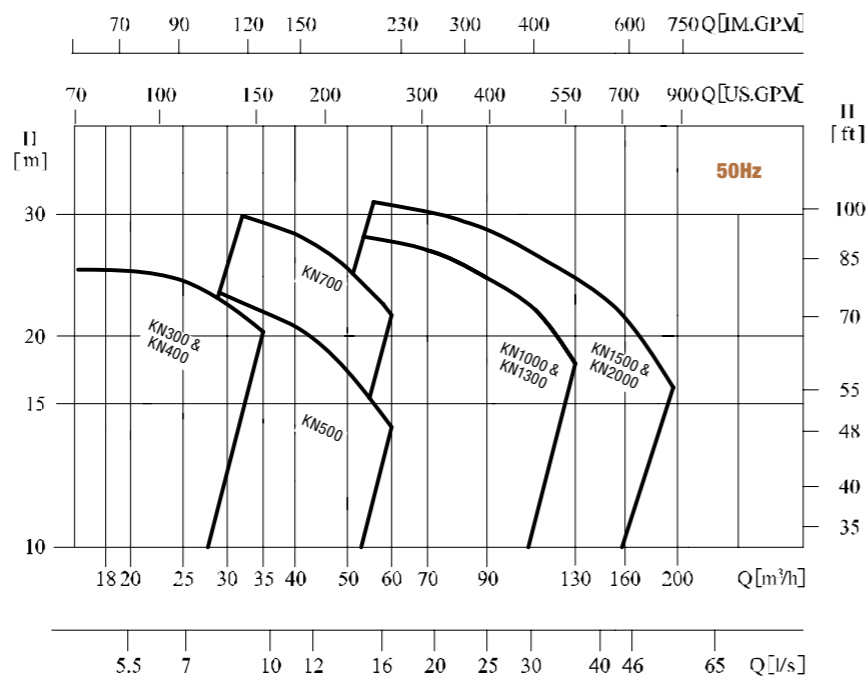
Power: up to 15 kW

Standard material

AISI 316 Stainless steel.



Performance scope



SX SN

Stainless steel submersible borehole pump

Applications

Water supply
Irrigation
Sprinkling and irrigation

Description

Vertical multistage pump with water-filled or oil-filled NEMA standard submersible motors for 4"-6"-8" deep wells. Built-in non-return valve included. Most parts made of stamped and welded AISI304 Stainless Steel.

Performance range

Flow range: up to 260 m³/h

Head: up to 381 m

Temperature: up to 25 °C

Speed: 2900 rpm or 3500 rpm

Power: up to 110 kW

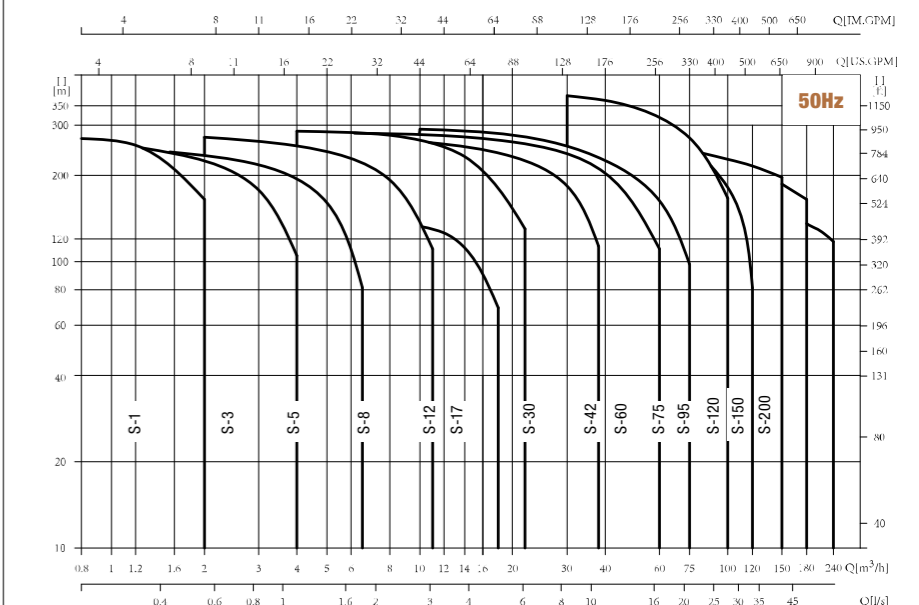
Standard material

Impeller, diffuser and shaft made in AISI304 SS. Also available, upon request, plastic made inner parts with floating impellers.

Available pumps in polymeric materials and floating impeller for 3", 3,5" and 4" well sizes. Ask for our 3", 3,5", 4" and 6" water cooled canned motors or oil filled motors.



Performance scope



S3P S3.5P S4P

Submersible borehole pumps

Applications

Water supply from wells or reservoirs
Domestic, civil and industrial applications
Garden and irrigation

Description

Submersible multistage pumps with floating POM impeller and POM diffuser:

S3P - 3" Sets including Pump, single phase motor, control box and 20mts of cable.

S3.5P - 3,5" Sets including Pump, single phase motor, control box and 20mts of cable.

S4P - 4" Hydraulic parts or pump sets including Pump, motor, control box and different cable length depending on the type.

Maximum sand content up to 3%.

Performance range

Flow range: 0-22 m³/h

Head: up to 364 m

Max. Fluid Temperature: 35°C

Speed: 2900 rpm

Power: up to 7,5 kW

Standard material

AISI 316 Stainless steel.

Components	Material
Delivery casing	AISI 304 SS
Strainer	AISI 304 SS
Diffuser	Polycarbonate
Impeller	POM
Shaft	AISI 304 SS
Shaft coupling	AISI 304 SS
Wear ring	Rubber NBR
Motor external casing	AISI 304 SS
Mechanical seal	Special seal for deep well (carbor-sic/tc)
Shaft	AISI 304 SS
Bearing	NSK
Seal lubricant oil	Oil for food machinery and pharmaceutical use.



SXB

5" submersible monoblock electropumps

Applications

Open wells
Artesian wells
Water supply from tanks and compact booster sets in household applications

Description

Multistage submersible pump, monoblock version, made of AISI304 SS and polymeric materials. The motor is built in the hydraulic part and cooled by the water pumped. Single phase versions are available with or without float switch.

Performance range

Flow range: up to 8.5 m³/h

Head: up to 108 m

Temperature: -5 to +35 °C

Speed: 2950 rpm

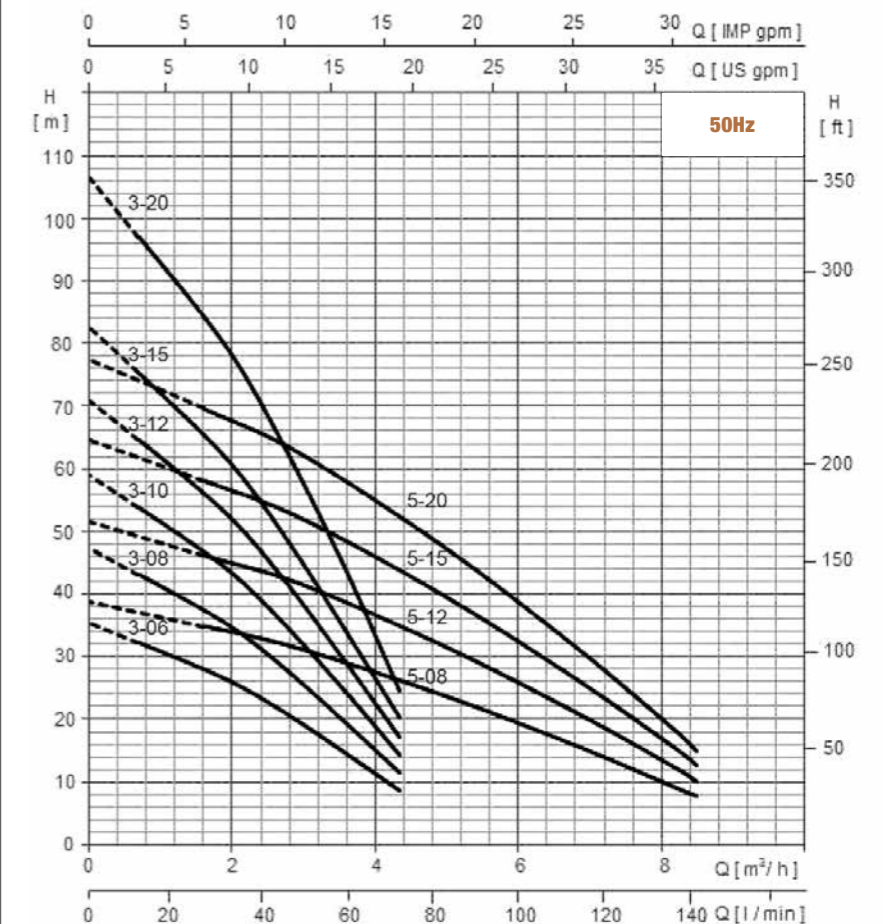
Power: up to 2 kW

Standard material

Fully made of AISI304 SS and polymeric materials.



Performance scope



WRAIN WUP

Stainless steel
drainage pump

Applications

Garden irrigation
Domestic drainage
Drainage for river water
Rain water harvesting
Circulation in fountains and ponds



WRAIN: Radial lower outlet
WUP: Axial upper outlet

Description

Light weight.
Easy operation.
Water cooled motor and pump set
(including capacitor and overload protection).
Dual mechanical seal an additional seal.
High efficiency.
Solid diameter ≤ 2 mm.
Float switch available.

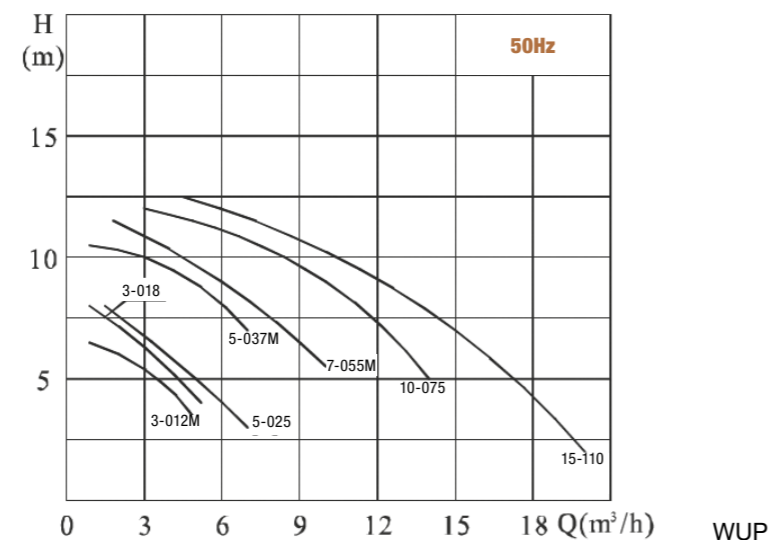
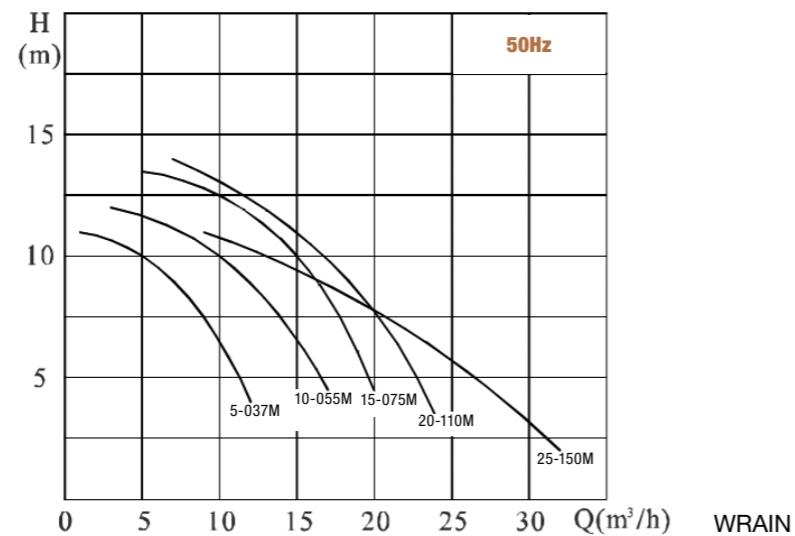
Performance range

Flow range: up to 32 m³/h
Head: up to 13 m
Temperature: up to 40 °C
Speed: 2900/3500 rpm
Power: up to 1.5 kW

Standard material

Fully made in stainless steel AISI304.

Performance scope



WF WG, WX

Submersible
sewage pump

Applications

Raw water
Municipal and industrial
waster water
Rain water
Sewage works
General industrial services
Construction

Description

Robust and reliable submersible pumps for waste water applications. Pumps with double and multiple channel impellers (WF, WX) and grinder pumps (WG). Autocoupling devices and hard pipe elbows available on request for all the models.

Performance range

Flow range: up to 1800 m³/h
Head: up to 66 m
Temperature: up to 40 °C
Speed: 2900/1450 rpm
3500/1750 rpm
Power: up to 90 kW

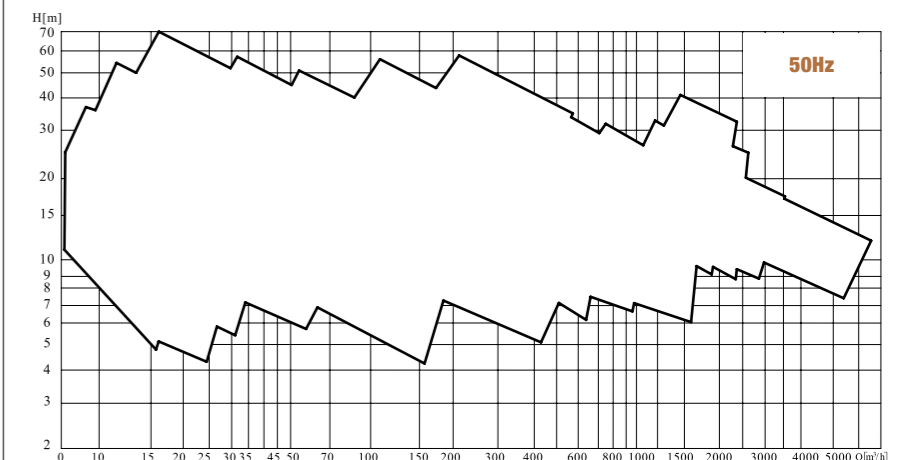
Standard material

WF: Cast iron
WX: AISI304
WG: Cast iron with special high hardness the cutting device

Other materials available on request.



Performance scope



WPF WPX

Non-clogging
self-priming
sewage pump

Applications

Rain water and common
sewage
Industrial sewage water
Wine and sugar industry
Sewage water in the city

Description

Back-pull-out construction convenient for
maintenance and trouble shooting.

Daily maintenance can be performed
rapidly by common head tools, saving
time and labor.

Stable performance, reliable operation.

Performance range

Flow range: up to 700 m³/h

Head: up to 35 m

Temperature: up to 40 °C

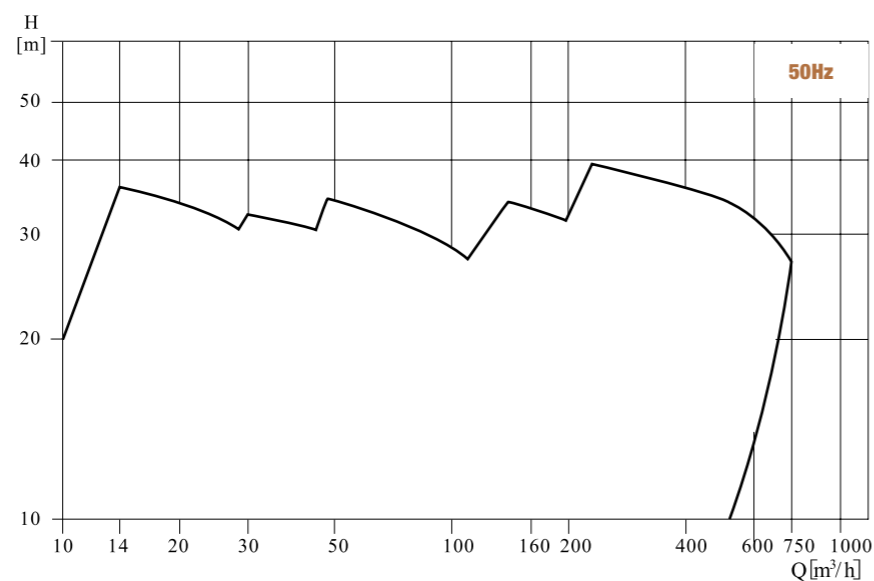
Power: up to 75 kW

Standard material

Pump casing is made of cast iron or
ductile cast iron, impeller can be cast iron
or stainless steel.



Performance scope



XBOOST

Variable speed
booster sets

Applications

Water supply for
residential & public
buildings
Garden irrigation
Water supply for industrial
uses
Other applications

Description

This variable speed PID controlled
booster system is a sophisticated
system, composed of latest technology
PID variable speed control cabinet and
more than two sets of parallel pumps.

It can be automatically adjusted to fulfill
the requirement of constant pressure,
variable flow water supply. The pressure
of the water supply pipe network keeps
constant, and the whole water supply
system always keeps the best state of
high efficiency and energy saving.

There are two types of water supply,
one is by frequency conversion can
automatically adjust the rotating speed
of one pump or start/stop pumps, which
is the best way to keep the pipelines
constant pressure, easy to operate.

Performance range

Flow range: 0.4 ~ 1440 m³/h

Head: 4 ~305 m

Temperature: 0 °C ~+70 °C

Voltage: 220V/380V

Standard material

Stainless steel.



XFIRE

Fire-fighting sets

Applications

Fire service applications including:
Office buildings
Hospitals
Airports
Manufacturing facilities
Warehouses
Power station
Schools and colleges
Hotels

Description

UL listed and FM certified pumps available on request.

We can build full sets according to NFPA20 and EN12845.

Performance range

Flow range: up to 908m³/h
Head: up to 200m
Electric or diesel drivers

Standard material

Ductile cast iron casing with 304SS.
Impeller.
304 or 316 Stainless steel wet parts.
Duplex 2205 Stainless steel wet parts.

Versions:

Single stage double suction split casing pump

Flow range: Up to 4500 m³/h
Head: Up to 230 m

Single stage end suction centrifugal pump

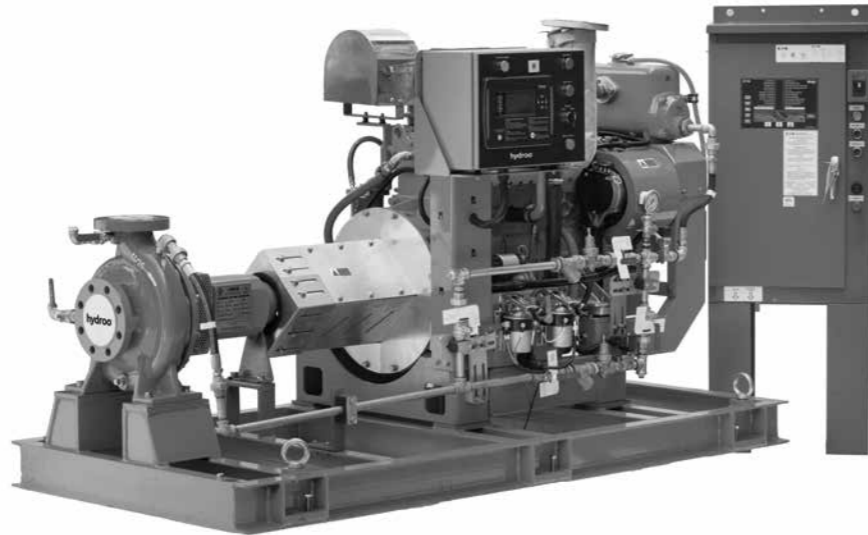
Flow range: Up to 800 m³/h
Head: Up to 160 m

Vertical turbine pump

Flow range: Up to 4000 m³/h
Head: Up to 300 m

Vertical in-line circulation pump

Flow range: Up to 750 m³/h
Head: Up to 90 m



Notes

A series of horizontal dotted lines for taking notes, extending across the right side of the page.

hydroo®

Be pumping partners

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subject to amendments

