



water technology



PRODUCT OVERVIEW

submersible electric pumps
aeration and mixing systems
lifting stations

nanoBOX

Lifting stations

AN HIGH QUALITY POLYETHYLENE TANK INTENDED FOR COLLECTING WATER EXCLUSIVELY FROM DOMESTIC DRAINS, INCLUDING WASHING MACHINES, SHOWERS AND SINKS (NOT SUITED FOR WC'S). THE TANK HAS A 33 L MAXIMUM CAPACITY AND IS SUPPLIED WITH A ZENIT STEEL SERIES SUBMERSIBLE PUMP ALREADY INSTALLED. IT IS VERY VERSATILE AND EASY TO INSTALL.



nanoBOX
33L

Dimensions (mm)410x360x310
Nr. of pumps1
Operation temperature35°C
Pre-installed pump.....DR-Steel 25 / DR-Steel 37

Including: DR-Steel pump, 10m standard cable, float switch.
Delivery port: DN32 (male thread).
Inlet: nr. 1 x DN30, nr. 1 x DN40.

AMS

Aeration and mixing systems

INTENDED FOR THE TREATMENT OF CIVIL AND INDUSTRIAL WASTEWATER.
9" AND 12" DISC-SHAPED AND **2" TUBULAR** AIR DIFFUSERS WITH ELASTOMER MEMBRANES PROVIDING HIGH OXYGEN TRANSFER;
VENTURI-TYPE SUBMERGED AERATORS FOR A COMBINED MIXING AND AERATION ACTION, SUITABLE FOR HOMOGENIZATION TANKS AND STORING WATER FROM THE FIRST RAINFALL;
MIXERS AND FLOW-MAKERS WITH SELF-CLEANING PROPELLERS FROM 285 MM TO 2100 MM IN DIAMETER WITH A ROTATION SPEED FROM 1000 TO 27 RPM.



OXYPLATE
9"-12"

Micro-perforated elastomer membrane for continual/intermittent aeration and in high-efficiency permanent systems. Wastewater treatment and purification (for the activation of biological oxidation and nitrification process), pre-aeration and aeration processes in oxidation tanks and aerobic digestion plants for civil and industrial sludges.



OXYTUBE

Recommended for the construction of removable aeration systems and where a large output surface area is required with only a small number of air distribution pipelines. They consist of a head with threaded connection, rigid polypropylene support and tubular membrane in elastomer with tiny holes, secured with stainless steel band clamps.



SUBMERGED
AERATORS

Aerators: the "Venturi" principle **oxy**, **system oxy** and **jetoxy** provide a combined mixing and aeration action. Coupled to electric pumps up to 30 kW and channel-type hydraulic units with large free passage combined with **"oxy"** series ejector devices.

Context of use: civil and industrial, wastewater treatment plants, sludge treatment or the oxygenation/pumping of water, fish farms, small treatment tanks, holding, homogenisation and stabilisation pits and tanks, first rainfall collection and oxidation tanks.



MIXERS

PRS, PRX and PRO series mixers are built in cast iron or stainless steel, propellers with self-cleaning design and diameter up to 850 mm. The electric motors are rated from 1.1 to 15 kW and have 4, 6 or 8 poles; transmission may be direct or by means of a planetary reduction gear.
Use: mixing processes where large quantities of liquid have to be kept in motion to prevent sedimentation.

BlueBOX

Lifting stations

THE IDEAL SOLUTION FOR COLLECTING SEWAGE AND PUMPING IT INTO THE MAIN SEWER NETWORK.
THE BLUEBOX RANGE CONSISTS OF ROTARY MOULDED POLYETHYLENE TANKS OF 60, 90, 150 AND 250 LITRES FOR INSTALLATION WITH A SINGLE PUMP OR 400 LITRES FOR INSTALLATION WITH TWO PUMPS. THE 60, 90 AND 150L MODELS ARE RECOMMENDED FOR DOMESTIC SYSTEMS AND THE 250 AND 400L FOR CIVIL AND RESIDENTIAL PLANTS.



BlueBOX
60L

Dimensions (mm)482x370x480
Nr. of pumps1
Operation temperature40°C
Recommended pumps.....DG Blue, GR Blue
.... (DRBlue and APBlue with clear wastewaters only)

Including: cable gland, PVC delivery pipe Ø 1 1/2", emergency draining connector, gasket kit for inlet pipes 2xØ110, 1xØ75 and 1xØ50 mm, nr.1 special support to reduce the float switch level, use and maintenance booklet.
Overflow alarm level optional.



BlueBOX
90L

Dimensions (mm)480x370x610
Nr. of pumps1
Operation temperature40°C
Recommended pumps.....DG Blue

Including: cable gland, PVC delivery pipe Ø 1 1/2", emergency draining connector, gasket kit for inlet pipes 2xØ110, 1xØ75 and 1xØ50 mm, nr.1 special support to reduce the float switch level, use and maintenance booklet. Overflow alarm level optional.



BlueBOX
150L

Dimensions (mm)580x480x660
Nr. of pumps1
Operation temperature40°C
Recomanded pumps.....DGBlue, DGBluePRO,
.....GRBluePRO

Including: cable gland, PVC delivery pipe Ø 1 1/2", emergency draining connector, gasket kit for inlet pipes 2xØ110, 1xØ75 and 1xØ50 mm, nr.1 special support to reduce the float switch level, use and maintenance booklet.
Overflow alarm level optional



BlueBOX
250L

Dimensions (mm)900x500x660
Nr. of pumps1
Operation temperature40°C
Recomanded pumps.....DGBlue, DGBluePRO,
.....GRBluePRO

Including: cable gland, nr. 2 gaskets pipe Ø110, nr. 1 gasket pipe Ø75 mm.



BlueBOX
400L

Dimensions (mm)900x1000x660
Nr. of pumps2
Operation temperature40°C
Recomanded pumps.....DGBlue, DGBluePRO,
.....GRBluePRO, DGO

Including: cable gland, nr. 4 gaskets pipe Ø110, nr. 2 gasket pipe Ø75 mm.

Data without pump and accessories - All weights and dimensions are indicative only - The capacity is guideline and refers to the maximum volume capacity before the contents overflow from the tank.



FLOW
MAKERS

Built in cast iron with stainless steel propeller. Propellers of self-cleaning design, up to 2100 mm in diameter. Electric motors from 0.8 to 5.5 kW with 4 or 6 poles, with planetary reduction gear.
Use: oxidation and denitrificatoin tanks and all applications with a need to prevent sedimentation on the tank floor.

UNIQA® | U®

High performance series 4kW - 355kW

THE UNIQA® RANGE REPRESENTS THE PERFECT SOLUTION FOR ANY CIVIL, INDUSTRIAL OR PROFESSIONAL APPLICATION, WITH A CHOICE OF 2-, 4-, 6- 8- OR 10 POLE MOTORS **FROM 3 TO 355 KW**, 50 AND 60Hz, AND OUTLETS FROM DN65 TO DN500.

UNIQA® IS COOLED DOWN BY A PATENTED CLOSED-CIRCUIT INTERNAL RE-CIRCULATION SYSTEM.

THE VORTEX IMPELLER THAT ALLOWS FOR WIDER FREE PASSAGE AND THE OPEN CHANNEL IMPELLER, PAIRED WITH THE ANTI-CLOGGING SYSTEM, GUARANTEE THE OPTIMUM PERFORMANCE OF EVERY UNIQA® MODEL IN ANY APPLICATION.

UNIQA® MOTORS CORRESPOND TO **IE3 PREMIUM EFFICIENCY CLASS** AND MATCH S1 DUTY CYCLE STANDARDS FOR SUBMERGED OPERATION AT A TEMPERATURE OF 60° C, AS PER NEMA A.

A PRODUCT BUILT TO LAST. IN CIVIL AND INDUSTRIAL APPLICATIONS UNIQA® IS A SYNONYM FOR SMOOTH OPERATION, STEADY PERFORMANCE AND CONTINUOUS WORK CYCLES WITHOUT UNDESIRE SYSTEM SHUTDOWNS.



BOX^{PRO}

Polyethylene lifting stations

PUMPING STATIONS IN MEDIUM-DENSITY STURDY POLYETHYLENE, SUITABLE FOR INSTALLATIONS IN SMALL TO LARGE RESIDENTIAL DISTRICTS.

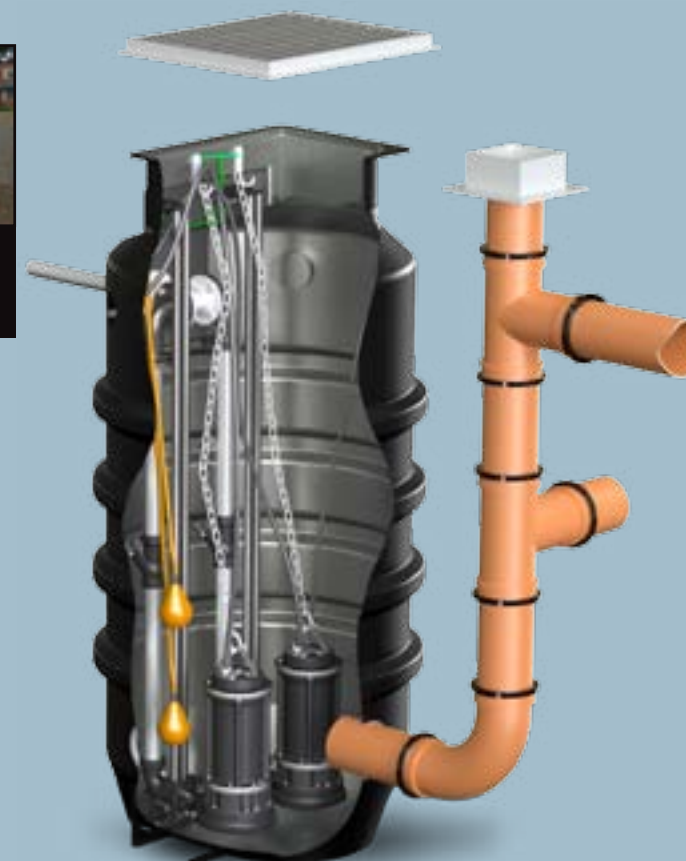
- THE LIFTING STATION IS PROVIDED WITH A WALK-OVER AND A DRIVE-OVER METAL COVER;
- THE TANK IS DESIGNED TO RESIST THE GROUND- AND WATER-PRESSURE;
- SMOOTH INTERNAL WALLS EASE THE EMPTYING PROCESS AND PREVENT UNPLEASANT SMELLS AND THE PROLIFERATION OF BACTERIA.

THE BOX PRO PUMPING STATIONS CAN BE USED WITH ONE OR TWO ELECTRICAL SUBMERSIBLE PUMPS WITH VORTEX, CHANNEL OR GRINDER IMPELLER.

THE PUMPS MIGHT BE EQUIPPED WITH A LEVEL COUPLING DEVICE FIXED TO THE BOTTOM WHICH AVOIDS EMPTYING THE TANK IN ORDER TO LIFT THE PUMP BACK TO THE SURFACE.

EVERY STATION IS DESIGNED WITH 3 OPTIONAL WASTE WATER INLET CONNECTIONS, AND 2 OUTLETS FOR THE ELECTRICAL AND FLOAT SWITCHES CABLES.

THE LIFTING STATIONS CAN BE SUPPLIED WITH ELECTRICAL CONTROL DEVICES FOR FULLY AUTOMATIC OPERATION SUCH AS FLOAT SWITCHES AND A HIGH-LEVEL ALARM INDICATOR FOR A SAFER USE.





water technology

THE Zenit Group ranks among the top international names in the design and manufacture of water treatment technologies. Its core business is the design and manufacture of submersible electric pumps for domestic and industrial use. Thanks to the knowledge and experience it has acquired over the years Zenit has also featured oxygenating and mixing devices on the market, providing a comprehensive range of products designed to meet the most demanding needs. Today Zenit is a Group of companies with direct control over the markets it serves, thanks to a targeted territorial presence. Although the various companies of the group are located accross the globe, they all pursue a single mutual objective. As a result of a sequence of successful strategic managerial decisions today Zenit Group is a global player.

We are convinced that the path we have taken is the right one and intend to proceed further in the same direction guided by the three pillars of our corporate vision: People, Product, Passion

PEOPLE
PRODUCT
PASSION

Zenit ITALIA

*Headquarter, production site
and sales office for the Italian market*

Via dell'Industria 11
41018 San Cesario sul Panaro (MO), Italy
Tel. (+39) 059.950.611 Fax (+39) 059.597.0399
Mail info.it@zenit.com

Zenit CHINA

*Production site and sales office
for the Chinese market*

26 Wupu Road, Shengpu dc.
Suzhou Industrial Park, 215126 Jiangsu, P.R.C.
Tel. (+86) 512.628.718.88 Fax (+86) 512.628.718.66
Mail info.cn@zenit.com

Zenit EUROPE

*Sales office and regional office for Europe, the
Middle East, Africa, North and South America*

29-31 Zone Artisanale "Op Zaemer"
4959 Bascharage, Luxembourg
Tel. (+352) 270.305 Fax (+352) 246.111.76
Mail info.lu@zenit.com

Zenit ASIA PACIFIC

*Sales office and regional office
for the Asia-Pacific region*

30 Toh Guan Road - #08-07
ODC Districentre, Singapore 608840
Tel. (+65) 656.011.01 Fax (+65) 656.011.41
Mail info.sg@zenit.com