

APPLICATIONS  
**DOMESTIC - RESIDENTIAL**  
0.25 ÷ 1.5 KW 50/60 HZ

steel

High-performance, compact stainless steel submersible pumps for optimal service in household installations and small civil plants.

**DG**  
Motor power ..... 0.37 ÷ 0.75 kW  
Poles ..... 2  
Delivery port ..... GAS 1½"-1½" V  
Free passage ..... max 40 mm  
Max flow rate ..... 6.3 l/s  
Max head ..... 10.0 m  
Impeller ..... vortex

**DR**  
Motor power ..... 0.25 ÷ 0.75 kW  
Poles ..... 2  
Delivery port ..... GAS 1½"-1½" V  
Free passage ..... max 12 mm  
Max flow rate ..... 3.35 l/s  
Max head ..... 16.0 m  
Impeller ..... open multi-channel

blue **Ex**

The blue Series is intended mainly for domestic and residential installations and provides compact size and outstanding reliability.

**DG**  
Motor power ..... 0.3 ÷ 0.74 kW  
Poles ..... 2  
Delivery port ..... GAS 1½" V  
Free passage ..... max 40 mm  
Max flow rate ..... 7.7 l/s  
Max head ..... 11.6 m  
Impeller ..... vortex

**DR**  
Motor power ..... 0.3 ÷ 0.74 kW  
Poles ..... 2  
Delivery port ..... GAS 1½" V  
Free passage ..... max 7 mm  
Max flow rate ..... 5.3 l/s  
Max head ..... 14.0 m  
Impeller ..... open multi-channel

bluePRO **Ex**

The bluePRO Series is intended for use in applications requiring high performance or prolonged, heavy-duty operation in domestic and residential contexts.

**DG**  
Motor power ..... 0.37 ÷ 1.5 kW  
Poles ..... 2  
Delivery port ..... GAS 1½" - 2" V  
Free passage ..... max 50 mm  
Max flow rate ..... 12.6 l/s  
Max head ..... 15.3 m  
Impeller ..... vortex

**DR**  
Motor power ..... 0.37 ÷ 1.5 kW  
Poles ..... 2  
Delivery port ..... GAS 1½" - 2" V  
Free passage ..... max 15 mm  
Max flow rate ..... 4.3 l/s  
Max head ..... 17.0 m  
Impeller ..... open multi-channel

**GR**  
Motor power ..... 0.74 ÷ 1.5 kW  
Poles ..... 2  
Delivery port ..... GAS 1½"-DN32 V  
Free passage ..... -  
Max flow rate ..... 5.6 l/s  
Max head ..... 27 m  
Impeller ..... with grinder system

**AP**  
Motor power ..... 0.74 ÷ 1.5 kW  
Poles ..... 2  
Delivery port ..... GAS 1½"-DN32 V  
Free passage ..... max 6 mm  
Max flow rate ..... 7.1 l/s  
Max head ..... 26.6 m  
Impeller ..... high head

[zenit.com/steel](http://zenit.com/steel)

[zenit.com/blue](http://zenit.com/blue)

[zenit.com/bluePRO](http://zenit.com/bluePRO)

**zeno**  
NAVIGATOR SUITE

A set of tools for the complete management and configuration of Zenit products and spare parts, online and offline. Select, dimension, search and offer in an easy and intuitive way.

[zenit.com/zenonavigator](http://zenit.com/zenonavigator)



APPLICATIONS  
**CIVIL - PROFESSIONAL - LIGHT INDUSTRIAL**  
0.37 ÷ 18.5 KW 50/60 HZ

E/S

E series and S series models are ideal for installations in small lifting stations where compact size and excellent reliability are required.

**DGE**  
Motor power ..... 0.37 ÷ 1.5 kW  
Poles ..... 2  
Delivery port ..... GAS 1½" + 2" V  
Free passage ..... max 50 mm  
Max flow rate ..... 11.6 l/s  
Max head ..... 15.7 m  
Impeller ..... vortex

**DRE**  
Motor power ..... 0.3 ÷ 1.5 kW  
Poles ..... 2  
Delivery port ..... GAS 1½"- 2" V  
Free passage ..... max 15 mm  
Max flow rate ..... 12.6 l/s  
Max head ..... 18.0 m  
Impeller ..... open multi-channel

**GRE**  
Motor power ..... 1.7 kW  
Poles ..... 2  
Delivery port ..... GAS 2"-DN32 H  
Free passage ..... -  
Max flow rate ..... 6.3 l/s  
Max head ..... 27.3 m  
Impeller ..... with grinder system

**APE**  
Motor power ..... 1.7 kW  
Poles ..... 2  
Delivery port ..... GAS 2"-DN32 H  
Free passage ..... 7 mm  
Max flow rate ..... 9.5 l/s  
Max head ..... 24.9 m  
Impeller ..... high head

**GRS**  
Motor power ..... 0.9 kW  
Poles ..... 2  
Delivery port ..... GAS 1½"-DN32 H  
Free passage ..... max 7 mm  
Max flow rate ..... 5.2 l/s  
Max head ..... 20.3 m  
Impeller ..... with grinder system

**APS**  
Motor power ..... 0.9 kW  
Poles ..... 2  
Delivery port ..... GAS 1½"-DN32 H  
Free passage ..... max 7 mm  
Max flow rate ..... 5.2 l/s  
Max head ..... 20.3 m  
Impeller ..... high head

**DGO**  
Motor power ..... 0.37 ÷ 1.5 kW  
Poles ..... 2/4  
Delivery port ..... GAS 1½"+ 2½" V  
Free passage ..... max 80 mm  
Max flow rate ..... 19.0 l/s  
Max head ..... 17.3 m  
Impeller ..... vortex

**DRO**  
Motor power ..... 0.37 ÷ 1.5 kW  
Poles ..... 2/4  
Delivery port ..... GAS 1½"- 2 V  
Free passage ..... max 15 mm  
Max flow rate ..... 13 l/s  
Max head ..... 18.4 m  
Impeller ..... open multi-channel

**DGF**  
Motor power ..... 0.55 ÷ 1.5 kW  
Poles ..... 2/4  
Delivery port ..... GAS 1½"-2½" V  
Free passage ..... max 80 mm  
Max flow rate ..... 16.7 l/s  
Max head ..... 17.5 m  
Impeller ..... vortex

**DRF**  
Motor power ..... 0.55 ÷ 1.5 kW  
Poles ..... 2/4  
Delivery port ..... GAS 1½"- 2" V  
Free passage ..... max 50 mm  
Max flow rate ..... 17.6 l/s  
Max head ..... 16.5 m  
Impeller ..... open multi-channel

**GRF**  
Motor power ..... 1.1 ÷ 1.5 kW  
Poles ..... 2  
Delivery port ..... GAS 1½"-DN32 H  
Free passage ..... -  
Max flow rate ..... 6.4 l/s  
Max head ..... 23 m  
Impeller ..... with grinder system

**APF**  
Motor power ..... 1.1 ÷ 1.5 kW  
Poles ..... 2  
Delivery port ..... GAS 1½"-DN32 H  
Free passage ..... max 7 mm  
Max flow rate ..... 7.6 l/s  
Max head ..... 22.6 m  
Impeller ..... high head

**DGX**  
Motor power ..... 0.37 ÷ 1.5 kW  
Poles ..... 2/4  
Delivery port ..... GAS 2" V  
Free passage ..... max 60 mm  
Max flow rate ..... 18.4 l/s  
Max head ..... 14.9 m  
Impeller ..... vortex

**DRX**  
Motor power ..... 0.37 ÷ 1.5 kW  
Poles ..... 2  
Delivery port ..... GAS 1½"- 2" V  
Free passage ..... max 15 mm  
Max flow rate ..... 12.5 l/s  
Max head ..... 17.8 m  
Impeller ..... open multi-channel

**DGB**  
Motor power ..... 0.37 ÷ 1.5 kW  
Poles ..... 2  
Delivery port ..... GAS 2" V  
Free passage ..... max 80 mm  
Max flow rate ..... 10.6 l/s  
Max head ..... 15 m  
Impeller ..... vortex

**DRB**  
Motor power ..... 0.37 ÷ 1.5 kW  
Poles ..... 2  
Delivery port ..... GAS 1½"- 2" V  
Free passage ..... max 15 mm  
Max flow rate ..... 12.5 l/s  
Max head ..... 18 m  
Impeller ..... open multi-channel

SPECIAL ALLOY

The DRX, DRY and DGX models are constructed in CF8 M (AISI 316) stainless steel and have multi-channel open impeller suitable for strained liquids (DRX) or for liquids with solids (DRY), and vortex impeller for soiled wastewater (DGX).

**DRY**  
Motor power ..... 2.4 ÷ 15 kW  
Poles ..... 2/4  
Delivery port ..... DN65 ÷ DN100 H  
Free passage ..... max 80 mm  
Max flow rate ..... 72.8 l/s  
Max head ..... 40.2 m  
Impeller ..... open multi-channel

[zenit.com/E-S](http://zenit.com/E-S)

[zenit.com/O](http://zenit.com/O)

[zenit.com/F](http://zenit.com/F)

[zenit.com/XYB](http://zenit.com/XYB)

series  
**Grey**

New submersible pumps for drainage and lifting systems in civil and industrial applications with efficient and reliable motors.

Directly developed from the UNIQA know-how, the Grey Series project features completely redesigned hydraulics and motors, to guarantee high performance, low consumption and outstanding versatility in the 0.37\* to 18.5 kW power range.

\*0.37 ÷ 1.5 Under development

Grey

**DGG**  
Motor power ..... 0.37 ÷ 15 kW  
Poles ..... 2/4/6  
Delivery Port ..... GAS 1½"+ 2½" V  
Free passage ..... max 120mm  
Max flow rate ..... 106 l/s  
Max head ..... 24.5 m  
Impeller ..... vortex

**DRG**  
Motor power ..... 0.37 ÷ 18.5 kW  
Poles ..... 2/4/6  
Delivery Port ..... GAS 1½" + GAS 2" V  
Free Passage ..... max 110 mm  
Max flow rate ..... 205 l/s  
Max head ..... 50 m  
Impeller ..... open multi-channel

**GRG**  
Motor power ..... 0.75 ÷ 9 kW  
Poles ..... 2/4  
Delivery Port ..... GAS 1½"- 2" H  
Free Passage ..... -  
Max flow rate ..... 8.4 l/s  
Max head ..... 53.5 m  
Impeller ..... with grinder system

**APG**  
Motor power ..... 0.75 ÷ 9 kW  
Poles ..... 2  
Delivery Port ..... GAS 1½"- 2" H  
Free Passage ..... max 10 mm  
Max flow rate ..... 10.5 l/s  
Max head ..... 52 m  
Impeller ..... high head



- Motors**
- from 0,37\* to 18.5 kW operating at 50/60 Hz
  - double mechanical seal in oil chamber
  - Cast iron structure
  - Thermal protection devices incorporated in stator
  - AISI 431 drive shaft
  - Two silicon carbide mechanical seals in large oil chamber
  - Discharge from DN32 to DN250
  - Large free passage

[zenit.com/grey](http://zenit.com/grey)

APPLICATIONS  
**INDUSTRIAL - WATER TREATMENT**  
1.8 ÷ 355 KW HIGH EFFICIENCY 50/60 HZ

**UNIQA**  
HIGH EFFICIENCY SUBMERSIBLE ELECTRIC PUMPS

UNIQA series pumps, designed for heavy-duty professional applications, are used in industrial and other wastewater treatment plants and for lifting sewage and pumping wastewater which contains solids.

Motors are designed with the aim of achieving the Premium (IE3) efficiency class according to the EN 60034-30 standard and guarantee high performance with low energy use. There are various types of hydraulics, to adapt perfectly to any type of application.

Uniqua **Ex**

**ZUG V**  
Motor power ..... 3 - 45 kW  
Poles ..... 2/4  
Delivery port ..... -  
Free passage ..... DN65-DN150 H  
Max flow rate ..... max 125 mm  
Max head ..... 110.0 l/s  
Max head ..... 75.0 m  
Impeller ..... vortex

**ZUG OC**  
Motor power ..... 1.8 ÷ 355 kW  
Poles ..... 2/4/6/8/10/12  
Delivery port ..... -  
Free passage ..... DN80-DN600 H  
Max flow rate ..... max 220 x 110 mm  
Max head ..... 1600.0 l/s  
Max head ..... 100.0 m  
Impeller ..... channel impeller with anti-clogging and fouling system

**ZUG GR**  
Motor power ..... 4 - 11 kW  
Poles ..... 2  
Delivery port ..... -  
Free passage ..... DN50-G2" H  
Max flow rate ..... 8.0 l/s  
Max head ..... 57.0 m  
Impeller ..... with grinder system

**ZUG HP**  
Motor power ..... 4 - 11 kW  
Poles ..... 2  
Delivery port ..... -  
Free passage ..... DN50-G2" H  
Max flow rate ..... max 10 mm  
Max head ..... 11.0 l/s  
Max head ..... 61.0 m  
Impeller ..... high head

**ZUG CP**  
Motor power ..... 3 - 355 kW  
Poles ..... 2/4/6/8/10/12  
Delivery port ..... -  
Free passage ..... DN80-DN600 H  
Max flow rate ..... max 220x110 mm  
Max head ..... 1600.0 l/s  
Max head ..... 100.0 m  
Impeller ..... Cast iron impeller with Molib-tech™ treatment and Chopper system



In DRY version models, the motor is cooled by a water-glycol mix circulating in a special closed circuit.

- Cast iron structure (stainless steel on request)
- Thermal protection devices incorporated in stator
- Long life bearings (100,000 hours)
- AISI 431 drive shaft (AISI 329 on request)
- Leakage detection system in seal chamber (standard) and motor (on request)
- Two silicon carbide mechanical seals in large oil chamber and V-rings
- Discharge from DN50 to DN600
- Large free passage declared for every model
- Operating temperature up to 60°C (up to 80°C on request)
- ATEX II 2G Ex db k IIB T4 / II 2D Ex tb IIIC T135°C certification



[zenit.com/uniqua](http://zenit.com/uniqua)

# LIFTING BOX

## SOLUTIONS FOR COLLECTING AND PUMPING WASTEWATER TO THE SEWER SYSTEM

### DOMESTIC

**Flood Pump Kit**  
Pumping-out flooded premises - Clear or slightly soiled wastewaters  
Stainless steel suction strainer - Plastic box - Delivery Pipe - Connectors

Included pumps	DR steel 25	Max flow rate	30 l/m
Power	0.25 kW	Max head	8.5 m
Pipes	2	Dim.	600 x 400 x 260 mm
Delivery	GAS 1 1/2" Y		
Free passage	max 10 mm		

**nanoBOX**  
Domestic wastewater - Wastewater from washing-machines, showers and sinks - Not suitable for WCs - 10m cable and integral float switch

Capacity	33 l	°C Liquid max	35°
Installed pumps	DR steel	Max head	8.5 m
Delivery	1 x DN30	Dim. (mm)	410 x 360 x 310
	1 x DN40/DN32		
Free passage	max 10 mm		

**miniBOX**  
miniBOX makes it possible to create a bathroom in any part of a house, even if it is a great distance from the soil stack or below the invert level of the drain

Capacity	6 l	Delivery	DN32/DN40
Installed pumps	GR steel	Dim.	553 x 356 x 150 mm
Tank material	Polyethylene	Control system	Automatic
Installation	External, wall		with float switch
Cable	1.5 m		

### blue BOX

Suitable for collecting and lifting clear, rain and wastewater in systems installed at a lower level than the sewer. The entire range uses blue, bluePRO Series and steel pumps.

**60**

Number of pumps	1
°C Liquid max	40°C
Suggested pumps	DR/DSteel 37
Inlets	9xØ110 - 1xØ175
Outlets	1xØ1 1/2" - 1xØ2"
Pipe Delivery	Ø1 1/2" [PVC]
Dim. (mm)	480 x 400 x 370 mm

**90**

Number of pumps	1
°C Liquid max	40°C
Suggested pumps	DR/DSteel 37
Inlets	9xØ110 - 1xØ175
Outlets	1xØ1 1/2" - 1xØ2"
Pipe Delivery	Ø1 1/2" - Ø2" [PVC]
Dim. (mm)	480 x 610 x 370 mm

**150**

Number of pumps	1
°C Liquid max	40°C
Suggested pumps	DR/Steel 37, DG/Steel 55
Inlets	9xØ110 - 1xØ175
Outlets	1xØ1 1/2" - 1xØ2"
Pipe Delivery	Ø1 1/2" - Ø2" [PVC]
Dim. (mm)	580 x 660 x 480

**250**

Number of pumps	1
°C Liquid max	40°C
Suggested pumps	DR/Steel 37, DG/Steel 55, DcBluePRO 150, GRbluePRO 200
Inlets	6xØ110
Outlets	1xØ1 1/2" + Ø2"
Pipe Delivery	Ø1 1/2" [PVC]- Ø2" [ZN]
Dim. (mm)	900 x 660 x 550

**400**

Number of pumps	1/2
°C Liquid max	40°C
Suggested pumps	DR/Steel 55, DG/Steel 55, DcBluePRO 150, GRbluePRO 200
Inlets	12xØ110
Outlets	2xØ1 1/2" + Ø2"
Pipe Delivery	Ø1 1/2" [PVC]- Ø2" [ZN]
Dim. (mm)	900 x 660 x 1000

### verti BOX

vertiBOX lifting stations can be used in a wide range of situations thanks to their modular structure, which allows the installation to be optimised for the specific usage.

**300/420 l**

Capacity	300/420 l
Number of pumps	1
Suggested pumps	DR steel 37
°C Liquid max	40°C
Inlets	DN50 x DN200
Outlets	61%
Dim. (mm)	850/1200 x Ø670

### sphere BOX

The sphereBOX lifting station incorporates various modular components allowing a custom composition which adapts to the needs of users.

**600/900/1200 l**

Capacity	600/900/1200 l
Number of pumps	1/2
Suggested pumps	DG/GRbluePRO, DG/GR Grey
°C Liquid max	40°C
Delivery	1 1/4" - 2"
Dim. (mm)	1405/1705/2050 x Ø1125/1155/1155

### BOX PRO

Range up to 18000 litres designed to withstand underground pressures and ensure rapid installation. BOX PRO lifting stations can house either one or two submersible pumps with vortex, channel or grinding impellers.

**M**

Capacity	1000 l
Number of pumps	1/2
Suggested pumps	DG/GR Grey, Uniqua ZUG V/ ZUG GR
°C Liquid max	40°C
Inlets	3xØ160 - 2xØ110
Outlets	1/2 x DN50 = DN150
Dim. (mm)	1140 x 1326 x Ø800

**V**

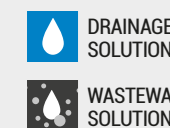
Capacity	2000 l
Number of pumps	1/2
Suggested pumps	DG/GR Grey, Uniqua ZUG V/ ZUG GR
°C Liquid max	40°C
Inlets	3xØ160 - 2xØ110
Outlets	1/2 x DN50 = DN150
Dim. (mm)	1016 x 2310 x Ø600

**S**

Capacity	4000 + 9500 l
Number of pumps	1/2
Suggested pumps	DG/GR Grey, Uniqua ZUG V/ ZUG GR
°C Liquid max	40°C
Inlets	3xØ160 - 2xØ110
Outlets	1/2 x DN50 = DN150
Dim. (mm)	1624 x 2015 + 4500 x Ø800

**J**

Capacity	10000 + 18000 l
Number of pumps	1/2
Suggested pumps	DG/GR Grey, Uniqua ZUG V/ ZUG GR
°C Liquid max	40°C
Inlets	3xØ160 - 2xØ110
Outlets	1/2 x DN50 = DN150
Dim. (mm)	2246 x 2520 + 4500 x Ø1000



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The data provided are not binding. Zenit reserves the right to modify the product without advance notification.

# MIXING SYSTEMS

## SOLUTIONS FOR THE CIVIL AND INDUSTRIAL WASTEWATER TREATMENT SECTOR

### MIXERS

Submerged mixers are the key components of modern water treatment systems. They are mainly used in equalisation, homogenisation and denitrification processes, for phosphate extraction and where liquids have to be mixed or stirred to reduce sedimentation.



Structure	Cast iron EN-GJL250
Motors	0.75 - 4 kW - 4/6/8 poli
Propeller	1450/950/750 rpm
Propeller	Stainless steel AISI 316
Propeller	Ø200 - Ø400
Transmission	Direct
Thrust	160 - 900 Nm



Structure	Cast iron EN-GJL250
Motors	4 - 18.5 kW - 4 poli
Propeller	1450 rpm
Propeller	Stainless steel AISI316
Propeller	Ø650/900
Transmission	Reduction Gear
Thrust	1025 - 4500 Nm

# AERATION SYSTEMS

## FOR THE CIVIL AND INDUSTRIAL WASTEWATER TREATMENT SECTOR

### AERATION

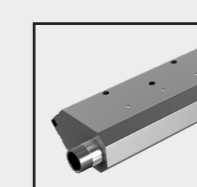
A line of aeration products for the highly specialised civil and industrial wastewater treatment sector. The Zenit Group range comprises 9" and 12" tubular air diffusers, 2" tubular air diffusers and Venturi-type submerged aerators.



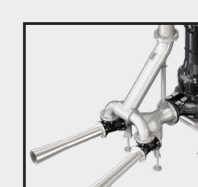
Outside diameter	270/340 mm
Min. operating flow rate	2 Nm <sup>3</sup> /h
Max. operating flow rate	6/10 Nm <sup>3</sup> /h
Limit flow rate	10/15 Nm <sup>3</sup> /h
Active surface area	0.038/0.06 m <sup>2</sup>
Membrane thickness	2 ± 0.15 mm



Outside diameter	63 mm
Lunghezza perforazioni	500/750/1000 mm
Min. operating flow rate	1/2/3 Nm <sup>3</sup> /h
Nominal flow rate	6/9/12 Nm <sup>3</sup> /h
Limit flow rate	10/15/20 Nm <sup>3</sup> /h
Active surface area	0.09/0.135/0.18 m <sup>2</sup>
Membrane thickness	1.7 ± 0.2 mm



Body material	AISI 316
Top/bottom hole diameter	4/8 mm
Thread connection	3/4" NPT
Nominal flow rate	20.0/40.0 Nm <sup>3</sup> /h
Minimum operating flow rate	3.5/7.0 Nm <sup>3</sup> /h
Maximum operating flow rate	40/80 Nm <sup>3</sup> /h
Pressure drops at nominal flow rate	~9.5 cm



Diffuser body/cone	G.J.L.-250
Nuts and bolts	Stainless steel

Diffuser body/cone	Cast iron G.J.L.-250
Diaphragm	Stainless steel - AISI 304
Nuts and bolts	Vulkollan

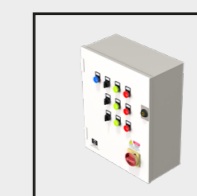
# PRODUCT OVERVIEW

SUBMERSIBLE ELECTRIC PUMPS  
AERATION AND MIXING SYSTEMS  
LIFTING STATIONS  
CONTROL PANELS

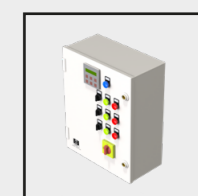


### CONTROL PANELS

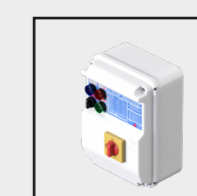
Zenit electronic and electromechanical control panels are suitable for the control of any single-phase or three-phase submersible pump, with direct or star/delta starting.



**ELECTROMECHANICAL STANDARD**  
Electromechanical control panels, designed to control 1, 2 or 3 single-phase pumps with power from 0.37 kW up to 15 kW.



**ELECTROMECHANICAL FULL SERVICE**  
Electromechanical control panels, including gradual machine start and stop with integrated soft-start devices, or variable speed motor operation with inverters, which allow regulation of the pump's duty point.



**ELECTRONIC STANDARD**  
Electronic control panels designed to control 1, 2 or 3 single-phase pumps with power from 0.37 kW up to 2.2 kW or 1, 2 or 3 three-phase pumps with power from 0.55 kW up to 15 kW.



**ELECTRONIC FULL SERVICE**  
State-of-the-art management and control tool, for their pumping systems in addition to standard electronic control panel functions: a multilingual menu allows the users to select the operating mode and maximum/minimum level alarm output.

