



# 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 ..... 1¼"-1½" V  
Free passage ..... max 40 mm  
Max flow rate..... 6.7 l/s  
Max head ..... 10.1 m  
Impeller..... vortex



**DR**

Motor power ..... 0.25 ÷ 0.75 kW  
Poles..... 2  
Delivery port ..... 1¼"-1½" V  
Free passage ..... max 12 mm  
Max flow rate..... 6.3 l/s  
Max head ..... 15.8 m  
Impeller..... open multi-channel

*blue*

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 ..... 1½" V  
Free passage ..... max 40 mm  
Max flow rate..... 7.8 l/s  
Max head ..... 12.0 m  
Impeller..... vortex



**DR**

Motor power ..... 0.3 ÷ 0.74 kW  
Poles..... 2  
Delivery port ..... 1¼" V  
Free passage ..... 7 mm  
Max flow rate..... 5.4 l/s  
Max head ..... 14.5 m  
Impeller..... open multi-channel

*bluePRO*

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 ..... 1½" - 2" V  
Free passage ..... max 50 mm  
Max flow rate..... 12.8 l/s  
Max head ..... 15.3 m  
Impeller..... vortex



**DR**

Motor power ..... 0.37 ÷ 1.5 kW  
Poles..... 2  
Delivery port ..... 1¼" - 2" V  
Free passage ..... max 15 mm  
Max flow rate..... 11.8 l/s  
Max head ..... 17.0 m  
Impeller..... open multi-channel



**GR**

Motor power ..... 0.74 ÷ 1.5 kW  
Poles..... 2  
Delivery port ..... 1½"-DN32 H  
Free passage ..... -  
Max flow rate..... 5.7 l/s  
Max head ..... 27.7 m  
Impeller..... with grinder system



**AP**

Motor power ..... 0.74 ÷ 1.5 kW  
Poles..... 2  
Delivery port ..... 1½"-DN32 H  
Free passage ..... max 6 mm  
Max flow rate..... 7.3 l/s  
Max head ..... 27.3 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

PUMP SELECTOR

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# APPLICATIONS

# CIVIL - PROFESSIONAL

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 ..... 1½" ÷ 2" V  
..... 2" DN50 H  
Free passage ..... max 50 mm  
Max flow rate..... 11.9 l/s  
Max head..... 17.6 m  
Impeller..... vortex



**DRE**

Motor power ..... 0.37 ÷ 1.5 kW  
Poles..... 2  
Delivery port ..... 1¼"-2" V  
..... 2" DN50 H  
Free passage ..... max 15 mm  
Max flow rate..... 12.9 l/s  
Max head..... 18.4 m  
Impeller..... open multi-channel



**GRE**

Motor power ..... 1.7 kW  
Poles..... 2  
Delivery port ..... 2"-DN32 H  
Free passage ..... -  
Max flow rate..... 6.4 l/s  
Max head..... 27.6 m  
Impeller..... with grinder system



**APE**

Motor power ..... 1.7 kW  
Poles..... 2  
Delivery port ..... 2"-DN32 H  
Free passage ..... 7 mm  
Max flow rate..... 9.7 l/s  
Max head..... 25.1 m  
Impeller..... high head



**GRS**

Motor power ..... 0.9 kW  
Poles..... 2  
Delivery port ..... 1½"-DN32 H  
Free passage ..... -  
Max flow rate..... 4.4 l/s  
Max head..... 20.5 m  
Impeller..... with grinder system



**APS**

Motor power ..... 0.9 kW  
Poles..... 2  
Delivery port ..... 1½"-DN32 H  
Free passage ..... 7 mm  
Max flow rate..... 6.3 l/s  
Max head..... 20.5 m  
Impeller..... high head

## O

The main feature of the *O series* is the oil bath motor. Together with its robust cast iron structure, it makes this model particularly reliable even in very tough operating conditions.



**DGO**

Motor power ..... 0.37 ÷ 1.5 kW  
Poles..... 2/4  
Delivery port ..... 1½" ÷ 2½" V  
..... 2" DN50 H  
..... DN65/80 H  
Free passage ..... max 80 mm  
Max flow rate..... 16.4 l/s  
Max head..... 17.5 m  
Impeller..... vortex



**DRO**

Motor power ..... 0.37 ÷ 1.5 kW  
Poles..... 2  
Delivery port ..... 1¼" ÷ 2 V  
..... 2" DN50 H  
Free passage ..... max 15 mm  
Max flow rate..... 13.3 l/s  
Max head..... 18.7 m  
Impeller..... open multi-channel

## SPECIAL ALLOY

*DRX*, *DRY* and *DGX* are constructed in CF8\_M (AISI 316) stainless steel and have multi-channel open impeller. *DGB* and *DRB* are constructed in B10 bronze and have multi-channel open impeller (*DRB*) and vortex impeller (*DGB*).



**DGX**

Motor power ..... 0.37 ÷ 1.5 kW  
Poles..... 2/4  
Delivery port ..... 2" V  
..... DN65-DN80 H  
Free passage ..... max 60 mm  
Max flow rate..... 18.4 l/s  
Max head..... 13.7 m  
Impeller..... vortex



**DRX**

Motor power ..... 0.37 ÷ 1.5 kW  
Poles..... 2  
Delivery port ..... 1¼"-2" V  
Free passage ..... max 15 mm  
Max flow rate..... 12.5 l/s  
Max head..... 17.3 m  
Impeller..... open multi-channel

**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..... 38.3 m  
Impeller..... open multi-channel



**DGB**

Motor power ..... 0.37 ÷ 1.5 kW  
Poles..... 2  
Delivery port ..... 2" V  
Free passage ..... 38 mm  
Max flow rate..... 10.6 l/s  
Max head..... 13.9 m  
Impeller..... vortex



**DRB**

Motor power ..... 0.37 ÷ 1.5 kW  
Poles..... 2  
Delivery port ..... 1¼"-2" V  
Free passage ..... max 15 mm  
Max flow rate..... 12.5 l/s  
Max head..... 17.5 m  
Impeller..... open multi-channel

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

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

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

# ZENO

SPARE PARTS

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# AL - LIGHT INDUSTRIAL

series

# Grey

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 0.55 to 18.5 kW power range.



**DGG**

Motor power ..... 0.55 ÷ 15 kW  
 Poles..... 2/4  
 Delivery Port ..... 1½" - 2½" V  
 ..... 2" DN32 ÷ DN150 H  
 Free Passage ..... max 125mm  
 Max flow rate..... 105.6 l/s  
 Max head ..... 24.5 m  
 Impeller..... vortex



**DRG**

Motor power ..... 0.55 ÷ 18.5 kW  
 Poles..... 2/4/6  
 Delivery Port ..... 1½" ÷ 2½" V  
 ..... 1½" DN32 ÷ DN250 H  
 Free Passage ..... max 100x70 mm  
 Max flow rate..... 205.3 l/s  
 Max head ..... 50 m  
 Impeller..... open multi-channel



**GRG**

Motor power ..... 1.1 ÷ 7.5 kW  
 Poles..... 2  
 Delivery Port ..... 1½" DN32/ 2" DN50 H  
 Free Passage ..... -  
 Max flow rate..... 8.4 l/s  
 Max head ..... 53.3 m  
 Impeller..... with grinder system



**APG**

Motor power ..... 1.1 ÷ 7.5 kW  
 Poles..... 2  
 Delivery Port ..... 1½" DN32/ 2" DN50 H  
 Free Passage ..... max 10 mm  
 Max flow rate..... 10.5 l/s  
 Max head ..... 52 m  
 Impeller..... high head



### Motors

- from 0.55 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

Range with ATEX certification:

CE Ex db h IIB T4 Gb  
 2460 II 2G





APPLICATIONS

# INDUSTRIAL - WATER TREATMENT

1.1 ÷ 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.

Uniqa



ZUG  
V

Motor power ..... 1.1 ÷ 37 kW  
Poles..... 2/4/6  
Delivery port ..... -  
..... DN65 ÷ DN150 H  
Free passage ..... max 150 mm  
Max flow rate..... 116.0 l/s  
Max head..... 79.5.0 m  
Impeller..... vortex



ZUG  
OC

Motor power ..... 1.1 ÷ 355 kW  
Poles..... 2/4/6/8  
Delivery port ..... -  
..... DN65 ÷ DN500 H  
Free passage ..... max 160 x 110 mm  
Max flow rate..... 1240.0 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 ..... -  
..... DN50 ÷ 2" H  
Free passage ..... -  
Max flow rate..... 9 l/s  
Max head..... 64 m  
Impeller..... with grinder system



ZUG  
HP

Motor power ..... 4 ÷ 15 kW  
Poles..... 2  
Delivery port ..... -  
..... DN50 ÷ 2" H  
Free passage ..... max 7.5 mm  
Max flow rate..... 11.8 l/s  
Max head..... 64.9 m  
Impeller..... high head



ZUG  
CP

Motor power ..... 1.5 ÷ 75 kW  
Poles..... 2/4/6  
Delivery port ..... -  
..... DN80 ÷ DN200  
Free passage ..... -  
Max flow rate..... 283.0 l/s  
Max head..... 83.0 m  
Impeller..... Chopper impeller in  
..... hard cast iron as standard



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

- Cast iron structure
- 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
- Discharge from DN50 to DN500
- Large free passage declared for every model
- Operating temperature up to 40°C (up to 60° on request)

Range with ATEX certification:

WET

CE Ex db h IIB T4 Gb  
2460 II 2G

DRY

CE Ex db h IIB T4 Gb  
Ex h tb IIIC T135°C Db  
2460 II 2GD



# LIFTING BOX

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

### Flood pump KIT

**Flood Pump KIT** comprises a DR steel 25 pump, a sturdy long hose which is supplied in an easy carry case. The pre-assembled float switch automatically stops the pump and is ready to use by connecting the hose.



#### 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.....2.08 l/s  
Power.....0.25 kW Max head.....8 m  
Poles.....2 Dim.....600 x 400 x 260 mm  
Delivery.....1¼" V  
Free passage.....max 10 mm

### pump BOX

**pumpBOX** combines a robust polyethylene tank with a single or dual Zenit pump, resulting in a complete system for collecting and lifting municipality sewage and grey water.

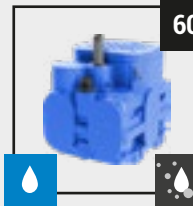


#### pumpBOX

System for collecting and lifting municipality sewage and grey water.  
Compact, quiet and reliable, it is ready to use and does not require excavation or masonry work.  
Capacity.....75/115 l Installation.....External  
Installed pumps.....1/2 Delivery.....DN40/DN80  
.....GRbluePRO/Grey DG Control system.....Automatic,  
Power.....1.1 ÷ 3.0 kW .....with Level Sensor 4÷20 mA

### 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 **bluePRO** Series pumps.  
Max liquid temperature 40°C.



**60**

Number of pumps.....1  
Suggested pumps.....  
.....DGbluePro, GRbluePro  
Inlets.....13 x Ø63 - 110  
Outlets.....1 x Ø40 - 50  
Pipe Delivery.....1 x Ø1½" - 2" straight [PVC]  
.....+ 1 x Ø1½" elbow [PVC]  
Dim. (mm).....h520 x 484 x 585



**90**

Number of pumps.....1  
Suggested pumps.....  
.....DGbluePro, GRbluePro  
Inlets.....19 x Ø63 - 110  
Outlets.....1 x Ø40 - 50  
Pipe Delivery.....1 x Ø1½" - 2" straight [PVC]  
.....+ 1 x Ø1½" elbow [PVC]  
Dim. (mm).....h620 x 484 x 585



**150**

Number of pumps.....1  
Suggested pumps.....  
.....DGbluePro, GRbluePro  
Inlets.....19 x Ø63 - 110  
Outlets.....1 x Ø40 - 50  
Pipe Delivery.....1 x Ø1½" - 2" straight [PVC]  
.....+ 1 x Ø1½" elbow [PVC]  
Dim. (mm).....h635 x 544 x 804



**250**

Number of pumps.....1  
Suggested pumps.....  
.....DGbluePro, GRbluePro  
Inlets.....33 x Ø63 - 110  
Outlets.....1 x Ø40 - 50  
Pipe Delivery.....FIX 1 x Ø1½" - 2" straight [PVC]  
.....+ 1 x Ø1½" elbow [PVC] / DAC 1 x Ø2" straight [PVC]  
Dim. (mm).....h855 x 494 x 904



**500**

Number of pumps.....1/2  
Suggested pumps.....  
.....DGbluePro, GRbluePro  
Inlets.....43 x Ø63 - 110  
Outlets.....2 x Ø40 - 50  
Pipe Delivery.....FIX 1 x Ø1½" - 2" straight [PVC]  
.....+ 1 x Ø1½" elbow [PVC] / DAC 1 x Ø2" straight [PVC]  
Dim. (mm).....h855 x 1004 x 904

### liftBOX

Range up to 19000 litres designed to withstand underground pressures and ensure rapid installation.  
**liftBOX** lifting stations can house either one or two submersible pumps with vortex, channel or grinding impellers.  
Max liquid temperature 40°C.



**S**

Capacity.....1000 l  
Number of pumps.....1/2  
Suggested pumps.....Grey DG/GR  
.....Uniqa ZUG V/ ZUG GR  
Inlets.....DN 125/160  
Outlets.....DN 50  
Dim. (mm).....1700 x Ø1000 x 600



**M**

Capacity.....2200 ÷ 4050 l  
Number of pumps.....1/2  
Suggested pumps.....Grey DG/GR  
.....Uniqa ZUG V/ ZUG GR  
Inlets.....DN 125/160/200/250  
Outlets.....DN 50/80  
Dim. (mm).....2300/4100 x Ø1250 x 1500

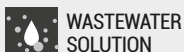


**L**

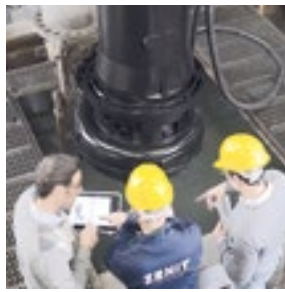
Capacity.....5800 ÷ 19000 l  
Number of pumps.....2  
Suggested pumps.....Grey DG/GR  
.....Uniqa ZUG V/ ZUG GR  
Inlets.....DN 250/315/400  
Outlets.....DN 50/80/100/150  
Dim. (mm).....2070 ÷ 5670 x Ø2280 x 2780



Drainage  
SOLUTION



Wastewater  
SOLUTION



better together



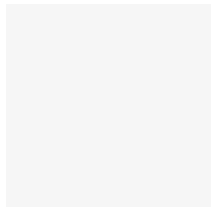
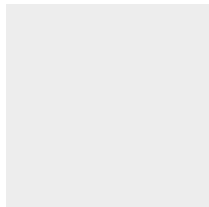
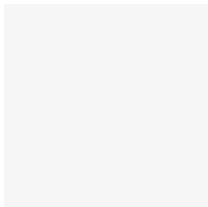
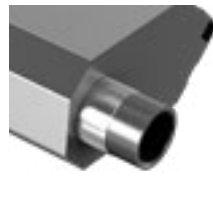
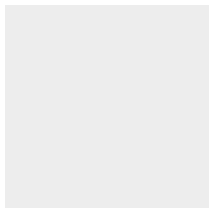
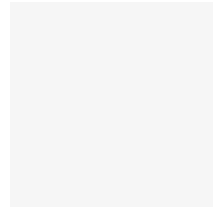
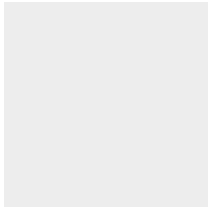
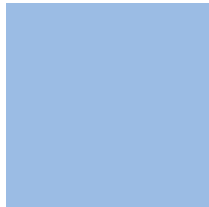
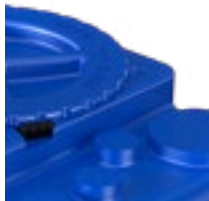
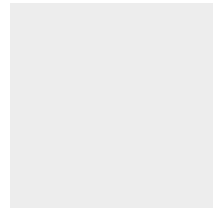
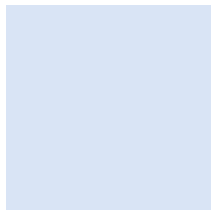
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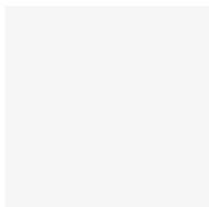
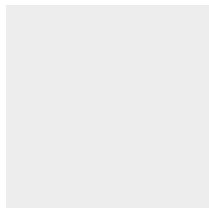
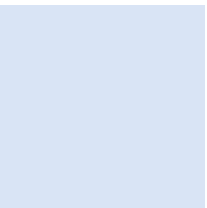


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# PRODUCT OVERVIEW

SUBMERSIBLE ELECTRIC PUMPS  
AERATION AND MIXING SYSTEMS  
LIFTING STATIONS  
CONTROL PANELS





# MIXING SYSTEMS

SOLUTIONS FOR THE CIVIL AND INDUSTRIAL WASTEWATER TREATMENT SECTOR 50/60 HZ

## MIXER



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.

Models available also with ATEX certification

CE Ex db h IIB T4 Gb  
2460 II 2G



ZMD

Structure.....Cast iron EN-GJL250  
Motors.....0.75 ÷ 4.5 kW - 4/6/8 poli  
Propeller.....1450/960/750 rpm  
.....Stainless steel AISI 316  
.....Ø200 ÷ Ø400  
Transmission.....Direct  
Thrust.....155 ÷ 1060 N



ZMR

Structure.....Cast iron EN-GJL250  
Motors.....4 ÷ 7.5 kW - 4 poli  
Propeller.....202 ÷ 300 rpm  
.....Stainless steel AISI316  
.....Ø650  
Transmission.....Reduction Gears  
Thrust.....1025 ÷ 2100 N

# 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" disc-shaped air diffusers, 2" tubular air diffusers and Venturi-type submerged aerators.



### OXYPLATE 9"/12"

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



### OXYTUBE 500/750/1000

Outside diameter.....63 mm  
Lunghezza perforazioni.....500/750/1000 mm  
Min. operating flow rate.....1/2/3 Nm<sup>3</sup>/h  
Max. operating 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



### OXYINOX L305/L610

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



### JETOXY 50

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

### JETOXY 80 ÷ 300

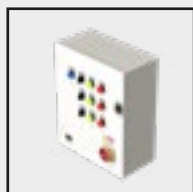
Body.....Cast iron G.J.L.-250  
Diffuser cone.....Stainless steel - AISI 304  
Diaphragm.....Vulkollan  
Nuts and bolts.....Stainless steel

# CONTROL PANELS

FOR SINGLE OR THREE-PHASE SUBMERSIBLE PUMP, WITH DIRECT OR STAR/DELTA STARTING

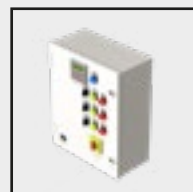
## CONTROL PANELS

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.



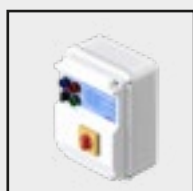
### ELECTROMECHANICAL STANDARD

Electromechanical control panels, designed to control 1, 2 or 3 single-phase, direct starting three-phase or Y/Delta starting three-phase pumps, are made using the best components available, to guarantee excellent reliability and easy procurement of replacement parts.



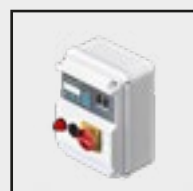
### ELECTROMECHANICAL FULL SERVICE

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. Designed for use with float switches or level sensors, they allow users to set alternating pump duty cycles and maximum or minimum level alarm output.



### 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 best suited to requirements, optimising running and maintenance costs. With the aid of an optional APP, users can monitor all system operation aspects at all times.

