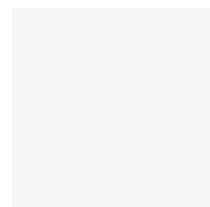
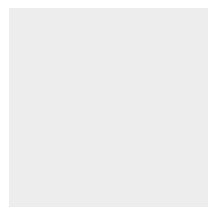
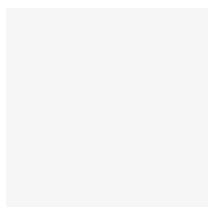
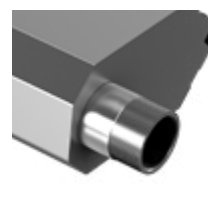
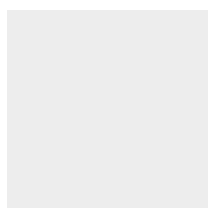
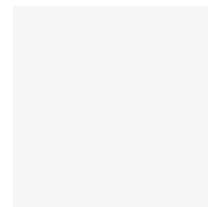
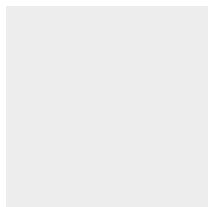
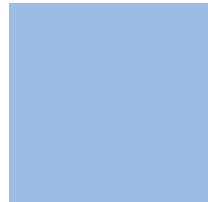
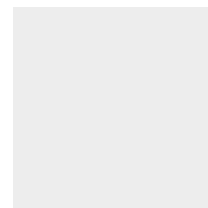
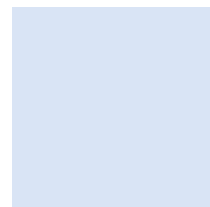


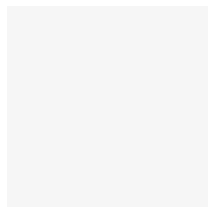
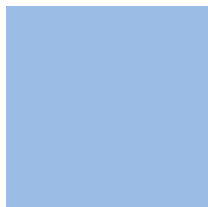
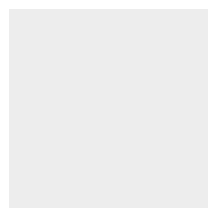
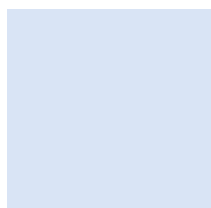


A Tsurumi Pump Company



PRODUCT OVERVIEW

SUBMERSIBLE ELECTRIC PUMPS
AERATION AND MIXING SYSTEMS
LIFTING STATIONS
CONTROL PANELS





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.

Uniqua

**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**

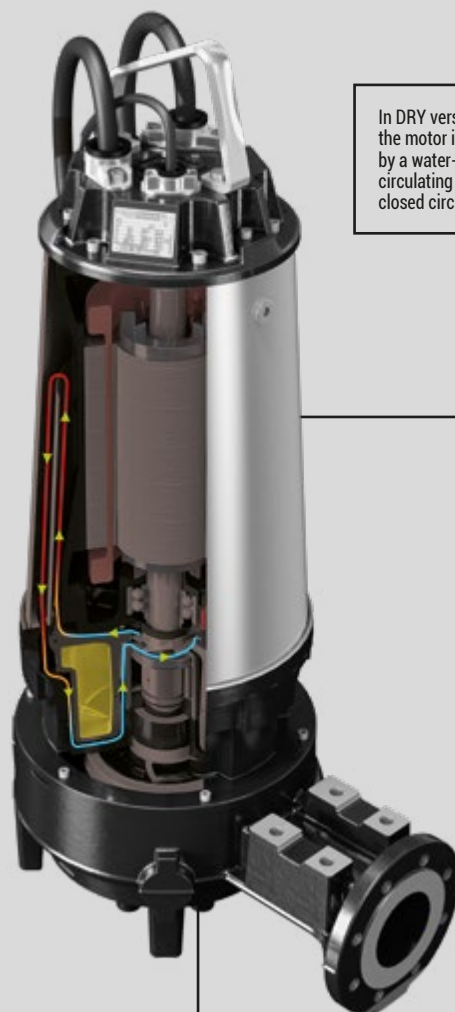
Motor power 4 ÷ 11 kW
Poles..... 2
Delivery port -
..... DN50 ÷ 2" H
Free passage -
Max flow rate 9 l/s
Max head 64 m
Impeller..... open multi-channel
with grinder system

**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

Ex db h IIB T4 Gb
2460 II 2G

DRY

Ex db h IIB T4 Gb
Ex h tb IIIC T135°C Db
2460 II 2GD zenit.com/uniqua

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.



ZMD

Structure.....	Cast iron EN-GJL250
Motors.....	0.75 ÷ 4.5 kW - 4/6/8 poles
Propeller.....	716 ÷ 1444 rpm
.....	Stainless steel
.....	Ø200 - Ø300 - Ø400
Transmission.....	Direct
Thrust.....	155 ÷ 1060 N



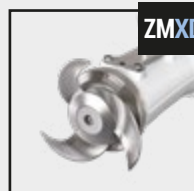
ZMR

Structure.....	Cast iron EN-GJL250
Motors.....	3 ÷ 7.5 kW - 4/6 poles
Propeller.....	177 ÷ 300 rpm
.....	Stainless steel
.....	Ø650
Transmission.....	Reduction Gears
Thrust.....	800 ÷ 2100 N

Models available also
with ATEX certification



Ex db h IIB T4 Gb
2460 II 2G



ZMXD

Structure.....	Stainless steel
Motors.....	0.75 / 1.1 kW - 4 poles
Propeller.....	1380 - 1396 rpm
.....	Stainless steel
.....	Ø200
Transmission.....	Direct
Thrust.....	155 / 210 N

AERATION SYSTEMS

FOR THE CIVIL AND INDUSTRIAL WASTEWATER TREATMENT SECTOR

AERA TION

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 ³ /h
Max. operating flow rate.....	6/10 Nm ³ /h
Limit flow rate.....	10/15 Nm ³ /h
Active surface area.....	0.038/0.06 m ²
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 ³ /h
Max. operating flow rate.....	6/9/12 Nm ³ /h
Limit flow rate.....	10/15/20 Nm ³ /h
Active surface area.....	0.09/0.135/0.18 m ²
Membrane thickness.....	1.7 ± 0.2 mm



OXYINOX L305/L610

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



JETOXY 50

Diffuser body/cone.....	GJL-250
Nuts and bolts.....	Stainless steel

JETOXY 80 ÷ 300

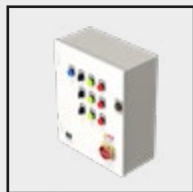
Body.....	Cast iron GJL-250
Diffuser cone.....	Stainless steel - AISI 304
Diaphragm.....	Vulkollan
Nuts and bolts.....	Stainless steel

CONTROL PANELS

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

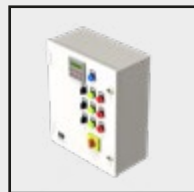
CONTROL PANELS

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.



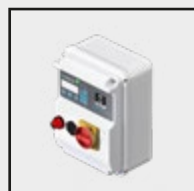
ELECTROMECHANICAL FULL SERVICE

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.



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 1½"-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 open multi-channel
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 open multi-channel
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 1½" ÷ 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

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 1½"-2" V
Free passage max 15 mm
Max flow rate 12.5 l/s
Max head 17.3 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 1½"-2" V
Free passage max 15 mm
Max flow rate 12.5 l/s
Max head 17.5 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 1½"-2" V
Free passage max 15 mm
Max flow rate 12.5 l/s
Max head 17.5 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

zenit.com/E-S zenit.com/O zenit.com/XYB

zeno

SPARE PARTS

SELECT ORIGINAL ZENIT SPARE PARTS VIA
OUR ONLINE PLATFORM.

zenit.com/zenonavigator

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.

Grey



DGG



Motor power 0.55 ÷ 15 kW
Poles..... 2/4
Delivery Port 1½" - 2½" V
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
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

CTG



Motor power 2.2 ÷ 15 kW
Poles..... 4
Delivery Port 80 - 100
Free Passage..... max 44 mm
Max flow rate..... 75.5 l/s
Max head 33.4 m
Impeller..... channel impeller with
Tsurumi cutting system **TSURUMI PUMP**



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:



Ex db h IIB T4 Gb

2460

II 2G



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..... open multi-channel 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

 zenit.com/blue

 zenit.com/bluePRO

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PUMP SELECTOR

SELECT AND CONFIGURE THE ZENIT PRODUCT
THAT BETTER SUITS YOUR NEEDS.

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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 the collection and lifting of black and grey water from domestic and residential sources.



pumpBOX-GR

System for the collection and lifting of black and grey water. Compact, quiet and reliable, it is ready to use and does not require excavation or masonry work.

Capacity.....75 l Installation.....External
Installed pumps.....1/2 Delivery.....DN40
.....GRbluePRO Control system.....Automatic,
Power.....0.74 ÷ 1.5 kWwith Level Sensor 4÷20 mA



pumpBOX-DG

System for the collection and lifting of black and grey water. Compact, quiet and reliable, it is ready to use and does not require excavation or masonry work.

Capacity.....115 l Delivery.....DN80
Installed pumps.....1/2 Grey DG Control system.....Automatic,
Power.....1.1 ÷ 3.0 kWwith Level Sensor 4÷20 mA
Installation.....External

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
Outlet [Pipe].....1 x G1½" straight [PVC]
.....+ 1 x G1½" elbow [PVC]
Dim. (mm).....h 520 x 484 x 585



90

Number of pumps.....1
Suggested pumps.....DGbluePro, GRbluePro
Inlets.....19 x Ø63 - 110
Outlet [Pipe].....1 x G1½" - G2" straight [PVC]
.....+ 1 x G1½" elbow [PVC]
Dim. (mm).....h 620 x 484 x 585



150

Number of pumps.....1
Suggested pumps.....DGbluePro, GRbluePro
Inlets.....19 x Ø63 - 110
Outlet [Pipe].....1 x G1½" - G2" straight [PVC]
.....+ 1 x G1½" elbow [PVC]
Dim. (mm).....h 635 x 544 x 804



250

Number of pumps.....1
Suggested pumps.....DGbluePro, GRbluePro
Inlets.....33 x Ø63 - 110
Outlet [Pipe].....FIX 1 x G1½" - G2" straight [PVC]
.....+ 1 x G1½" elbow [PVC] / DAC 1 x G2" straight [PVC]
Dim. (mm).....h 855 x 494 x 904



500

Number of pumps.....1/2
Suggested pumps.....DGbluePro, GRbluePro
Inlets.....43 x Ø63 - 110
Outlet [Pipe].....FIX 1 x G1½" - G2" straight [PVC]
.....+ 1 x G1½" elbow [PVC] / DAC 1 x G2" straight [PVC]
Dim. (mm).....h 855 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.....650 ÷ 1450 l
Number of pumps.....1/2
Suggested pumps.....Grey DG/GR
.....Uniga ZUG V/ ZUG GR
Inlets.....DN 125/160
Outlets.....DN 50
Dim. (mm).....Ø1000 x H 1200 ÷ 2300



M

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

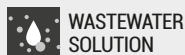


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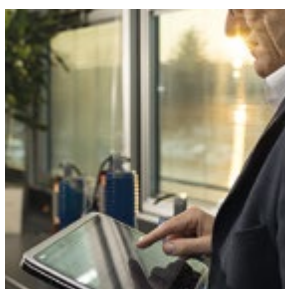
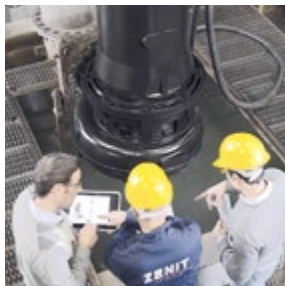
Capacity.....5800 ÷ 19000 l
Number of pumps.....2
Suggested pumps.....Grey DG/GR
.....Uniga ZUG V/ ZUG GR
Inlets.....DN 250/315/400
Outlets.....DN 50/80/100/150
Dim. (mm).....Ø2280 x H 2070 ÷ 5670



DRAINAGE
SOLUTION



WASTEWATER
SOLUTION



A  **TSURUMI PUMP** COMPANY



For further information, visit www.zenit.com

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