

COMPLETE SOLUTIONS FOR COLLECTION & LIFTING OF WASTE & DRAINAGE WATER Box



Lifting **BOX** solutions

Our PE **lifting stations** are an effective solution for collecting and pumping wastewater and drainage water to the sewer system, when a gravity feed is not available or distances are too great.

They are mainly used in rural or hilly areas with low population density, without an extensive municipal sewer system; or else following rezoning when connecting an area to the mains water network.

Given their many advantages, lifting stations are today the best choice for a low cost, safe and eco-compatible solution.







Zenit offers a complete range of modular lifting stations, available in different sizes and formats, suitable for all environments (domestic, residential, civil or industrial).

This range has been designed for collecting drainage water, rainwater, surface water and wastewater, and is supplied complete with piping, valves and installation accessories.

On request, they are available with level control float switches and electronic control panels.

Lifting Box models are designed to house Zenit submersible electric pumps with various hydraulics and power levels. The standard range can be supplemented with custom versions depending on the specific use.







Flood Pump Kit

Our **Flood Pump Kit** comprises a DR *steel* pump and a discharge hose contained in a practical box.

The quick fitting means the hose can be easily attached to the pump for quick intervention in emergencies.

The incorporated float switch allows for automatic operation.

All materials are corrosion resistant.

Ideal for emergency drainage/pumping out of cellars, garages, basements, and all environments subject to flooding.

Benefits

- Everything required is contained within a box which can also act as a filter during operation
- · Always ready for use





Contents

DR steel pump

with steel channel impeller and mechanical seal in oil chamber. Free passage max 10 mm.

Discharge hose

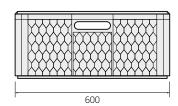
Ø2", 10 m long hose with quick fittings.

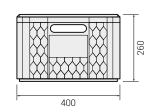
Accessories

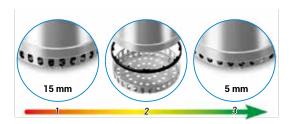
Fittings and float switch support.

Specifications

Pump	1x DR steel 25
Control system	Automatic with float switch/manual
Cable	10 m with Schuko plug
Discharge pipe	Ø 2" - 10 m
Ŕ	12 kg







The **DR** steel easily converts from an ordinary submersible pump to a dry floor unit.

When operating in this mode, the suction level can be reduced to as little as **5 mm** above the ground.

	Impeller type	V/~	P2 [kW]	A	Ø	Free passage
DR steel 25 M50	Channel type	230/1	0.25	2.3	G 1¼"	10 mm



nano BOX

nanoBOX is a high-quality PE lifting station with a maximum capacity of 33 litres, supplied with a pre-installed DR steel stainless-steel pump.

Thanks to its construction and small footprint, nanoBOX is very versatile and easy to install.

Can be used for collecting and lifting clear wastewater and grey water from domestic drains, including showers, sinks, washing machines and dishwashers (not suited for WCs).

Benefits

- · Pre-installed pump
- · Automatic control system with start/stop float switch
- Compact size



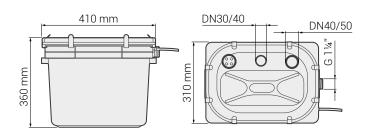
Contents

DR steel pump

with steel channel impeller and mechanical seal in oil chamber. Free passage max 10 mm.

Specifications

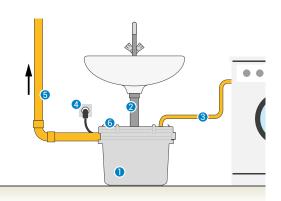
Capacity (I)	33
Tank material	PF
Installation	External
Pump	1 x DR steel 37
Control system	Automatic with float switch
Cable	10 m with Schuko plug
Discharge	Ø 2"
Ŕ	8.7 kg



	Impeller type	V/~	P2 [kW]	A	Ø	Free passage
DR steel 37 M50	Channel type	230/1	0.37	3.1	G 1¼"	10 mm







- 1. nanoBOX
- 2. Sink drain inlet [with siphon]
- 3. Washing machine drain inlet
- 4. Power supply
- 5. Discharge pipe
- 6. Breather outlet with activated carbon filter. Can be connected to external breather pipe [optional]





blue BOX





blueBOX lifting stations are extremely versatile and easy to install.

The 60, 90, 150 and 250 litre models are equipped to house a DR steel 37 stainless-steel pump with channel impeller.

The 400 litre model, designed mainly for civil plant installations, is equipped with a DR steel 55 pump for maximum reliability, even in demanding usage situations.

They can be used for collecting and lifting rainwater and seepage water, as well as clear wastewater and grey water of civil plant and domestic origin.

Benefits

- · Wide range of models, versatile and easy to install
- Provision for inlets up to DN110
- Suitable for indoor or outdoor installation





Cove

Rugged walk-over cover with gasket. The large cover allows a second pump to be added in emergencies, for easy, hygienic drainage.



Handles

Two integral handles for lifting and transport, for easy transfer by hand.



Inlate

Wastewater pipe intake ports also provided on sides.



Gaskets

Guaranteed watertight thanks to NBR rubber gaskets which allow quick connection of pipes to the blueBOX with no need for sealants.

Contents



DR steel pump

with steel channel impellers and mechanical seal in oil chamber. Free passage max 10 mm.

(Supplied, installation is customer responsibility)



Pre-installed PVC hydraulic accessories

- Ball check valve
- Gate valve
- Connecting pipe

(Accessories may vary depending on configuration)

Optional



Electronic control panel

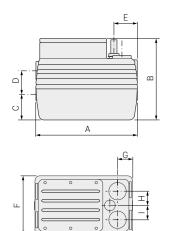
with self-learning for direct starting of single- and three-phase pumps and protection against dry running via φ and minimum current.



Specifications

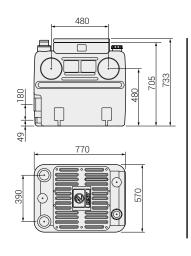
	blueBOX 60	blueBOX 90	blueBOX 150	blueBOX 250	blueBOX 400				
Capacity [l]	60	90	150	250	400				
Tank material			PE						
Installation			Surface						
Pump		DR si	eel 37		DR steel 55				
Control system	Automatic with float switch								
Cable	10 m with Schuko plug								
Discharge	G1¼"	G1¼"	G1½"	G1½"	G1½"				
(tank only)	8.0	9.0	11.0	15.0	31.0				

blueBOX 60-90-150

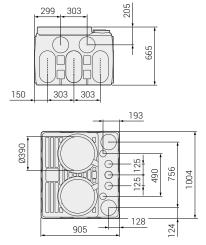


		Α	В	С	D	Ε	F	G	Н	I
×	60	480	400	80	200	95	370	90	110	80
JeB(90	480	610	140	210	65	480	85	115	90
pγ	150	580	660	140	260	150	480	85	120	120

blueBOX 250



blueBOX 400



	Impeller type	V/~	P2 [kW]	A	Ø	Free passage
DR steel 37 M50	Channel type	230/1	0.37	3.1	G 1¼"	10 mm
DR steel 55 M50	Channel type	230/1	0.55	4.3	G 1½"	12 mm







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.

They are equipped to house a DR steel 37 stainless-steel pump with channel impeller.

They are ideally suited for collecting and lifting clear wastewater and grey water in residential environments, rainwater from car parks or courtyards, and in small civil plant situations for transferring drainage water and seepage water.

Benefits

- · Modular structure, from 300 to 800 litres
- Walk-over or drive-over cover (B class)
- Provision for intake pipes from DN 50 to DN 200





Cove

Rugged walk-over cover or drive-over cover hermetically sealed with a gasket, with safety closure and inspection window.

A telescopic system allows its height to be adjusted to suit any type of installation.



Structure

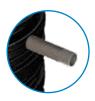
Tough PE construction with reinforcement ribs guaranteeing durability and effective anchoring to the ground.



Inlets

Provision for intake pipes from DN 50 to DN 200 NBR gaskets to seal off liquids and odours.

Holes can be cut on site using a normal holesaw of appropriate diameter.



Discharge

Discharge pipe in PVC with G1 ¼ threaded union.

Contents



DR steel pump

with steel channel impeller and mechanical seal in oil chamber. Free passage max 10 mm.

(Supplied, installation is customer responsibility)



PVC hydraulic accessories

- Ball check valve
- Gate valve
- Connecting pipe

(Accessories may vary depending on configuration)

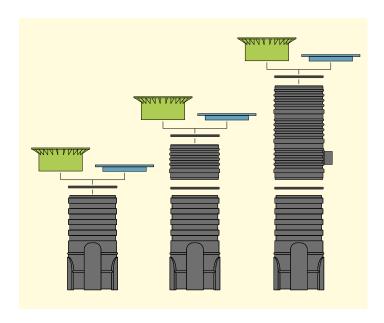
Optional



Electronic control panel

with self-learning for direct starting of single- and three-phase pumps and protection against dry running via φ minimum current.





A modular solution

vertiBOX can incorporate

- BASE module
- 400 mm riser
- 1210 mm riser
- WALK-OVER or DRIVE-OVER cover (B class)

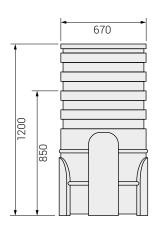
All component joints are watertight thanks to the use of tough lip

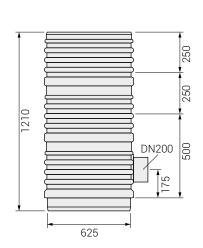
The perfect compatibility of the components means it is possible to create made-to-measure solutions which meet requirements for collecting and lifting water in the best possible manner; this makes them ideal for a wide range of applications, from domestic and residential through to civil plant and industrial.

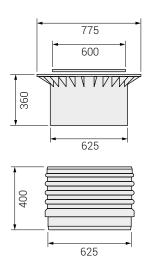
All BASE modules can be cut to a height of 850 mm if required, reducing their capacity to 300 litres while maintaining complete compatibility with all the other components in the range.

Specifications

	vertiBOX 85-120 (BASE module)
Capacity (I)	300 (h850 mm) - 420 (h1200 mm)
Tank material	PE
Installation	Surface, underground
Pump	1 x DR <i>steel</i> 37
Cable	10 m with Schuko plug
Discharge	G1¼"
(tank only)	18







	Impeller type	V/~	P2 [kW]	A	Ø	Free passage
DR steel 37 M50	Channel type	230/1	0.37	3.1	G 1¼"	10 mm





Wastewater BOX Solutions









mini**BOX**

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.

miniBOX is able to grind all waste and pump it through normal diameter pipes to the soil stack.

It is composed of a PE tank with a GR steel pump with grinder inside it, and can be installed directly behind the toilet, for significant space savings. The cable with plug can be connected to a normal power socket, meaning an electrician is not required for the installation.

miniBOX is suitable for collection and lifting of domestic black water and grey water from toilets or bidets.

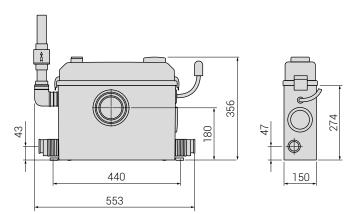
Benefits

- · Compact and quiet
- Two models with front or side inlet
- · Automatic control system with internal start/stop float switch



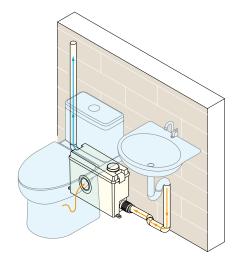
Specifications

Capacity (I)	6
Tank material	PE
Installation	External, wall
Pump	GR steel
Control system	Automatic with float switch
Cable	1.5 m with Schuko plug
Discharge	DN32/DN40
B	13.5 kg





Pump with anti-clogging system incorporating rotating chopper knife



	Impeller type	V/~	P2 [kW]	Α	Ø	Free passage
GR steel 37 M50	With grinder	230/1	0.37	3.1	G 1¼"	-



blue BOX





blueBOX lifting stations feature a wide range of models to meet even the most demanding installer's requirements.

The 60, 90 and 150 litre models are equipped to house a DG steel stainless-steel pump with vortex impeller.

The 250 and 400 litre models can be equipped with three different kinds of pumps, depending on usage: DG steel stainless-steel pump with vortex impeller, DG bluePRO cast-iron pump with vortex impeller, or GR bluePRO cast-iron pump with grinding system.

The 400 Double version allows the installation of two bluePRO series pumps with vortex impeller or grinder for maximum efficiency and reliability.

They are suitable for collecting and grey water and sewage of domestic and residential origin from toilets and washing machine outlets, and wastewater with solids and fibres.

Benefits

- · Wide range of models, versatile and easy to install
- Provision for inlets up to DN110
- · Suitable for indoor or outdoor installation





Cover

Rugged walk-over cover with gasket. The large cover allows a second pump to be added in emergencies, for easy, hygienic drainage.



Handles

Two integral handles for lifting and transport, for easy transfer by hand.



Inlets

Wastewater pipe intake ports also provided on sides.



Gaskets

Guaranteed watertight thanks to NBR rubber seals which allow quick connection of pipes to the *blueBOX* with no need for sealants.

Contents



DG steel

DG bluePRO



Submersible pump (3 versions)

- Stainless steel with vortex impeller (DG steel)
- Cast iron with vortex impeller (DG bluePRO)
- Cast iron with grinder (GR bluePRO)

(Supplied, installation is customer responsibility)



PVC hydraulic accessories

GR bluePRO

- Ball check valve
- Gate valve
- Connecting pipe

(Accessories may vary depending on configuration)

Optional



Electronic control panel

with self-learning for direct starting of single- and three-phase pumps and protection against dry running via ϕ minimum current.

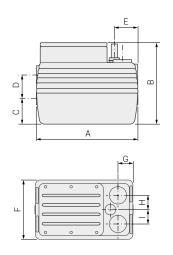




Specifications

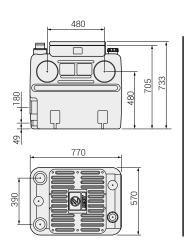
The second secon										
	blueBOX 60	blueBOX 90	blueBOX 150	blueBOX 250	blueBOX 400	blueBOX 400 Double				
Capacity [l]	60	90	150	250	400	400				
Tank material				PE						
Installation				Surface						
				DG steel 55	DG steel 55	2x DG steel 55				
Pump	DG steel 37	DG steel 37	DG steel 55	DG bluePRO 150	DG bluePRO 150					
				GR bluePRO 200	GR bluePRO 200	2x GR bluePRO 200				
Control system		Manual/automatic with float switch								
Cable		10 m								
Discharge	G1¼"	G1¼"	G1½"	G1½" - G2"	G1½" - G2"	G1½" - G2"				
kg (tank only)	8.0	9.0	11.0	15.0	31	31				

blueBOX 60-90-150

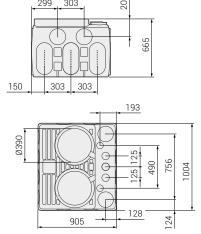


		Α	В	С	D	Ε	F	G	Н	ı
×	60	480	400	80	200	95	370	90	110	80
JeB(90 150	480	610	140	210	65	480	85	115	90
pγ	150	580	660	140	260	150	480	85	120	120

blueBOX 250



blueBOX 400



Impeller type	V/~	P2 [kW]	A	Ø	Free passage
	230/1	0.37	3.1	G 1¼"	25 mm
Varian	230/1	0.55	4.3	G 1½"	40 mm
vortex	230/1	1.1	7.5	G2"	50 mm
	400/3	1.1	3.2	G2"	50 mm
With grinder	230/1	1.5	10	G 1½" - DN32	-
with grinder	400/3	1.5	4.3	G 1½" - DN32	-
	•	vortex 230/1 230/1 230/1 230/1 230/1 400/3 230/1 With grinder	type V/~ IkWl 230/1 0.37 230/1 0.55 230/1 1.1 400/3 1.1 With grinder 230/1 1.5	type V/~ kW/ A Vortex 230/1 0.37 3.1 230/1 0.55 4.3 230/1 1.1 7.5 400/3 1.1 3.2 With grinder 230/1 1.5 10	type V/~ [kw] A Ø Vortex 230/1 0.37 3.1 G 1¼" 230/1 0.55 4.3 G 1½" 230/1 1.1 7.5 G2" 400/3 1.1 3.2 G2" With grinder 230/1 1.5 10 G 1½" - DN32



blue BOX400e



The **blueBOX 400e** lifting station is extremely tough and reliable Its large 400 litre capacity and the possibility to install multiple coupled units allows its use in residential and industrial locations of significant size.

When high flow rates are required, **blueBOX 400e** can be equipped with two external *UNIQA* series pumps which can be managed with alternate operation via a dedicated electrical control panel.

It can be used for collecting and lifting grey water and black water of civil and industrial origin, for disposal of wastewater with solids and fibres, and for transferring drainage from public establishments to the sewer system.



Benefits

- · High capacity
- Can be installed in pairs
- · Use with high-efficiency UNIQA series pumps



Cover

Rugged walk-over cover with screw fastening, safety lock and twin O-rings.



Emergency emptying

Emergency drainage fitting located low down in the unit in the event of prolonged blackouts.



Fixing

Slots for floor mounting and integrated handles for manual movement.

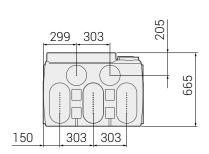


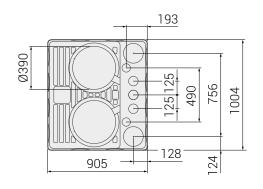
Gaskets

Watertight seal between pipes and blueBOX assured by NBR rubber gaskets. No additional sealants are required.

Specifications

	II pay taa	
	blueBOX 400e	
Capacity [l]	400 per unit.	
Capacity [i]	Can be installed in pairs	
Tank material	PE	
Installation	Surface	
Recommended pump	Compatible with UNIQA models	
Control system	Manual/automatic with float switch	
kg (tank only)	15.0	









sphere BOX





The **sphereBOX** lifting station incorporates various modular components allowing a custom composition which adapts to the needs of users. As well as the different tank capacities, it is also possible to choose the type of internal installation, the most suitable riser and the type of cover (walk-over or drive-over version).

Use with bluePRO or Grey pumps with 2" discharge recommended.

Can be used for collecting and disposing of heavily soiled wastewater of civil origin, sewage and industrial wastewater.

Benefits

- Range includes 600, 900 and 1200 litre models
- Modular components for optimised installation
- Provision for pumps with 2" discharge outlets



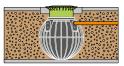


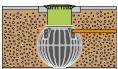
Cover

Tough cover, hermetically sealed with safety closure and inspection window.

Available in walk-over or drive-over version.

Height can be adjusted to suit any type of installation.







Risers

Two different riser types can be used, simplifying installation even in existing systems.



Structure

Tough PE construction with reinforcement ribs guaranteeing durability and effective anchoring to the ground.

Contents



PVC hydraulic accessories

- Ball check valve
- Gate valve
- Connecting pipe

(Accessories may vary depending on configuration)

Recommended pumps

The *sphere*BOX lifting station can be equipped with pumps with 2" discharge outlets.

Zenit recommends **bluePRO** and **Grey** series pumps with vortex impeller (DG bluePRO, DGG) or with grinding system (GR bluePRO, GRG).





Optional

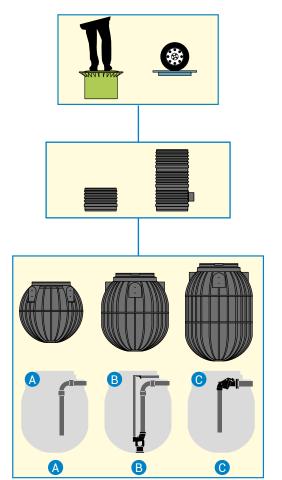


Electronic control panel

with self-learning for direct starting of single- and three-phase pumps and protection against dry running via φ minimum current.



A modular solution



Cover. Walk-over or drive-over cover, Ø 600 mm, compatible with all sphereBOX and vertiBOX models Adjustable height with hermetic seal. Vehicle loading version (class B) with cast iron cover.



Optional riser

Ø600 mm h 400 - 1210 mm

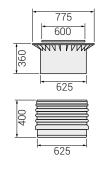
Tank 600 / 900 / 1200 litre can be installed in the following ways:

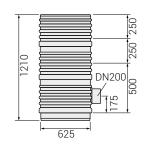
- (A) Fixed with ball valve, gate valve, and 11/4" PVC connecting pipe for 1 pump
- (B) with vertical discharge bottom coupler, ball valve and 2" PVC connecting pipe for 1 pump
- (C) with DAC E external coupler, ball valve and 2" PVC connecting pipe for 1 pump (2 pumps only for sphere BOX 1200 model)

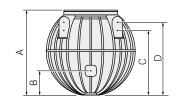
Specifications

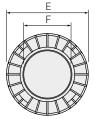
	sphereBOX 600	sphereBOX 900	sphereBOX 1200
		•	
Capacity [l]	600	900	1200
Tank material		PE	
Installation		Underground	
Recommended pump	blue	PRO series - <i>Grey</i> se	eries
Discharge		1 ¼" - 2"	
kg (tank only)	27	47	58

	Α	В	С	D	E	F
sphereBOX 600	1045	-	790	890	1125	645
sphereBOX 900	1345	545	1005	1105	1155	645
sphereBOX 1200	1670	545	1330	1430	1155	645











BOXPRO





The BOX PRO range comprises tough PE lifting stations with capacities ranging from 1,000 to 18,000 litres.

These stations are specially shaped to resist the pressure to which they are subject once installed. Their smooth inner walls prevent the formation of encrustations which can lead to a reduction in volume and be a cause of bad odours, as well as ensuring optimal performance.

BOXPRO can be equipped with one or two pumps installed with a bottom coupling system. Zenit recommends the use of float switches connected to an electrical control panel for managing start, stop and alarm levels.

They are designed mainly for collection and lifting of wastewater with solids and sewage of civil and industrial origin, including systems of significant size

Benefits

- Extensive range from 1,000 to 18,000 litres
- Drive-over metal cover
- Reduced positioning and installation times





Structure

In thick PE with better resistance to low temperatures. Rugged polypropylene walk-over cover as standard



Ground

All metal parts inside the lifting stations are connected to an electrical grounding circuit.



Check valves

Ball check valves always included in standard supply package



Intake pipe

Designed for connection of intake pipe Ø110 or Ø160 mm in the bottom of the lifting station to reduce turbulence. Joint with gasket to prevent leaks or escaping odours.

Contents



PVC hydraulic accessories

- Ball check valve
- Gate valve
- Connecting pipe

(Accessories may vary depending on configuration)

Recommended pumps

For the BOXPRO range of lifting stations, Zenit recommends **Grey** and **UNIQA** series pump models with vortex impeller (DGG, ZUG V) or grinding system (GRG, ZUG GR).



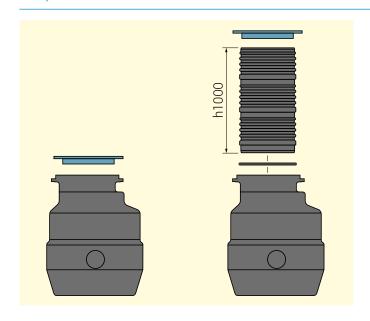


Optional



Electronic control panel

with self-learning for direct starting of single- and three-phase pumps and protection against dry running via φ minimum current.



Maximum versatility

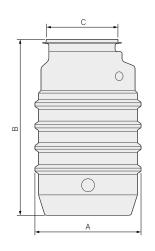
The **BOX PRO M** 1000-litre model can be used both on its own and with a 1000 mm riser.

This allows the lifting station to be easily adapted to existing systems.

The Ø 800 mm cover is available in walk-over or drive-over version, depending on user requirements.

Specifications

	BOX PRO M	BOX PRO V	BOX PRO S	BOX PRO J
Capacity [l]	1000	2000	4000÷9500	10,000 - 18,000
Tank material		Р	E	
Installation		Underg	ground	
Recommended pump		Grey series -	UNIQA series	
(tank only)	85	134	242 ÷ 839	422 ÷ 1508



	Α	В	С
BOX PRO M	1140	1326	Ø800
BOX PRO V	1016	2310	600
BOX PRO S	1624	2015 ÷ 4500	800
BOX PRO J	2246	2520 ÷ 4500	1000





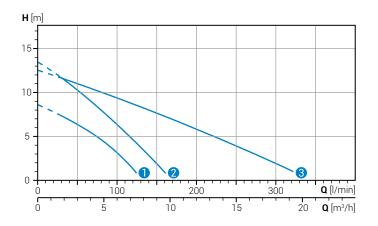
Supplied pump specifications

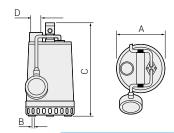


DRAINAGE BOX Solutions

	Impeller type	V/~	P2 [kW]	A	Rpm	Ø	Free passage
1 DR steel 25/2 M50		230/1	0.25	2.3	2900	G 1¼"	10 mm
2 DR steel 37/2 M50	Channel type	230/1	0.37	3.1	2900	G 1¼"	10 mm
3 DR steel 55/2 M50		230/1	0.55	4.3	2900	G 1½"	12 mm







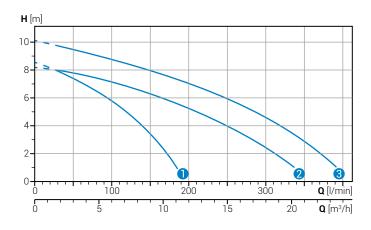
	A	В	L	υ	kg
1 DR steel 25/2 M50	170	10	300	G 1¼"	5.9
2 DR steel 37/2 M50	170	10	300	G 1¼"	6.3
3 DR steel 55/2 M50	215	12	335	G 1½"	7.7

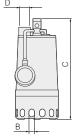


WASTEWATER BOX Solutions

	Impeller type	V/~	P2 [kW]	Α	Rpm	Ø	Free passage
1 DG steel 37/2 M50		230/1	0.37	3.1	2900	G 1¼"	25 mm
2 DG steel 55/2 M50	Vortex	230/1	0.55	4.3	2900	G 1½"	40 mm
3 DG steel 75/2 M50	_	230/1	0.75	4.3	2900	G 1½"	40 mm







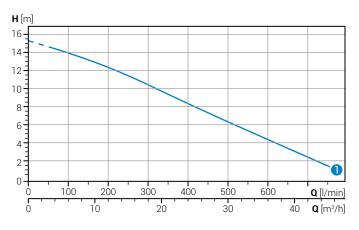


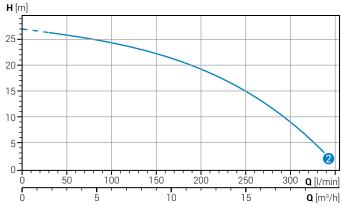
	Α	В	С	D	R
1 DG steel 37/2 M50	170	20	350	G 1¼"	6.6
2 DG steel 55/2 M50	170	40	400	G 1½"	8.1
3 DG steel 75/2 M50	210	40	400	G 1½"	8.9

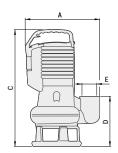


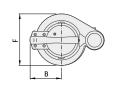
	Impeller type	V/~	P2 [kW]	Α	Rpm	Ø	Free passage
DG bluePRO 150	Vortex	230/1	0.25	2.3	2900	G 1¼"	50 mm
2 GR bluePRO 200	With grinder	230/1	0.55	4.3	2900	G 1½"	-

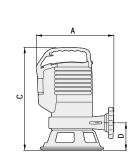


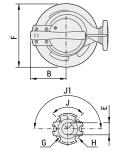












	Α	В	С	D	E	F	R
DG bluePRO 150	295	125	465	195	G2"	200	23.0
2 GR bluePRO 200	285	125	410	100	G 1½"	230	26.0

Recommended pumps for

BOX400

sphere **BOX**













The technical **Data Booklet** complete with duty curves is available for download in the download area of **zenit.com**

To select the pump best suited to your needs we advise you to use the **Zeno Pump Selector** configuration tool on the **zenit.com** website

Zenit Group

Today the Zenit Group ranks among the top Italian and international names in the design and manufacture of submersible electric pumps for domestic, civil and industrial use, and water treatment systems.

With the know-how and experience acquired over the years, Zenit offers the market a comprehensive range of products designed to meet the most demanding needs.









WE STRIVE TO BE A VALUABLE PARTNER YOU CAN TRUST IN YOUR SEARCH FOR WATER TREATMENT SOLUTIONS AND SERVICES.

Our organisation

Zenit is a modern industrial organisation with a workforce of over 250 and four locations worldwide, that manages its markets directly and with success, thanks to extensive market coverage.

This international expansion is driven by our desire to serve our customers better with closer proximity.

Each **Zenit** group company has its own organisation, but they all operate in pursuit of a single mutual objective. Our origin as a family business has enabled us to stay streamlined and flexible, quick to respond with effective solutions.



