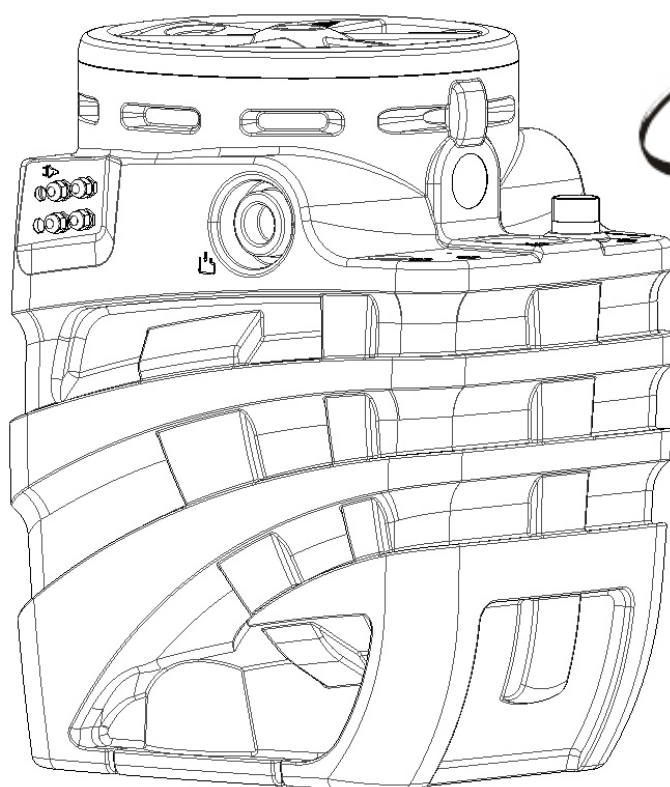


ISTRUZIONI PER L'INSTALLAZIONE E LA MANUTENZIONE
INSTRUCTIONS DE MISE EN SERVICE ET D'ENTRETIEN
INSTRUCTIONS FOR INSTALLATION AND MAINTENANCE
INSTALLATIONSANWEISUNG UND WARTUNG
INSTRUCTIES VOOR INGEBRUIKNAME EN ONDERHOUD
INSTRUCCIONES PARA LA INSTALACION Y EL MANTENIMIENTO
ИНСТРУКЦИИ ПО МОНТАЖУ И ТЕХНИЧЕСКОМУ ОБСЛУЖИВАНИЮ
NÁVOD K INSTALACI A ÚDRŽBĚ
INSTRUKCJA MONTAŻU I KONSERWACJI
ΟΔΗΓΙΕΣ ΓΙΑ ΤΗΝ ΕΓΚΑΤΑΣΤΑΣΗ ΚΑΙ ΤΗΝ ΣΥΝΤΗΡΗΣΗ
KURMA VE BAKIM BİLGİLERİ
ІНСТРУКЦІЇ ЗІ ВСТАНОВЛЕННЯ ТА ТЕХНІЧНОГО ОБСЛУГОВУВАННЯ
INSTRUCȚIUNI PENTRU INSTALARE ȘI ÎNTREȚINERE
UPUTSTVO ZA INSTALACIJU I ODRŽAVANJE
安装和维护说明

FEKABOX 200 / FEKABOX 200 FX
FEKAFOS 280 / 280 Double
FEKAFOS 550 Double



NEW



EN 12050/1



10. RECHERCHE DES INCONVÉNIENTS

INCONVÉNIENTS	VÉRIFICATIONS (CAUSES POSSIBLES)	TYPE D'INTERVENTION
1. L'eau déborde de la cuve et la pompe fonctionne. (Dans cette situation, l'alarme si elle est installée, doit intervenir. En cas contraire, vérifier les instructions d'installation du système d'alarme).	A. Tuyau de refoulement bouché. B. La pompe n'est pas correctement raccordée au tuyau de refoulement. C. Clapet anti-retour bloqué. D. Robinet fermé. E. Caractéristiques de la pompe insuffisantes. F. La crépine d'aspiration de la pompe est bouchée. G. La roue est usée ou bloquée par des corps étrangers.	A. Éliminer les obstructions. B. Vérifier que la coulisse supportant la pompe est bien en fin de course. (seulement pour cuves de 280 l). C. Laver le clapet. D. Ouvrir le robinet.. F. Éliminer les obstructions.. G. Éliminer les obstructions.
2. L'alarme, si elle est installée, intervient mais le système fonctionne régulièrement.	A. Vérifier que la position du flotteur est correcte..	A. Répéter les opérations de contrôle et d'installation.

11. MISE AU REBUT

La mise au rebut de ce produit ou d'une de ses parties doit être effectuée de manière adéquate:

1. Utiliser les systèmes locaux, publics ou privés, de collecte des déchets.
2. Si cela n'est pas possible, contacter Dab Pumps ou le centre de service-après-vente agréé le plus proche.

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TECHNICAL DRAWINGS – pag.150

1. WARNINGS

- 1.1  Check that the system has suffered no damage during transport or storage. In particular, ensure that the external casing is perfectly entire and in excellent condition; check the efficiency of all the tank components; replace any parts that are not perfectly efficient.
- 1.2  Do not use inflammable or highly corrosive liquids or anything other than indicated by standard En 12050-1
- 1.3  If the installation is indoors, adequate drainage must be ensured in the event of leakage from the tank
- 1.4  For correct installation, follow the instructions in chapters 2-3-4 below. If you want to install the Fekabox – Fekafos lifting tanks outside the home, **attention must be paid because the maximum admissible load on the cover is 100 kg** (see also the symbols on the cover).

2. MANAGEMENT

2.1 Storage

All the products must be stored indoors, in a dry, vibration-free and dust-free environment, possibly with constant air humidity.

2.2 Transport

Avoid subjecting the products to needless jolts or collisions.

To lift and transport the tank, use lifting equipment and the pallet supplied standard (if applicable).






2.3 Dimensions and weights

The adhesive label on the package indicates the total weight of the system.

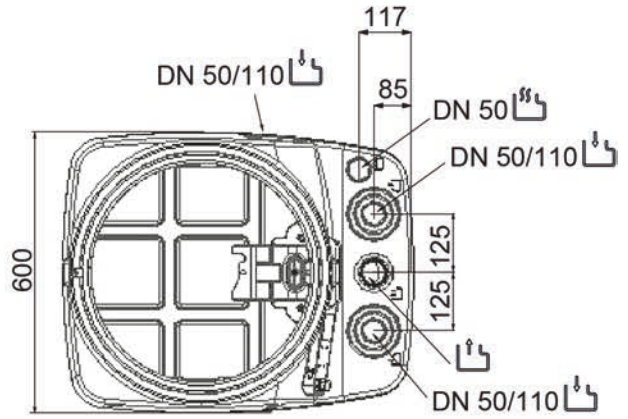
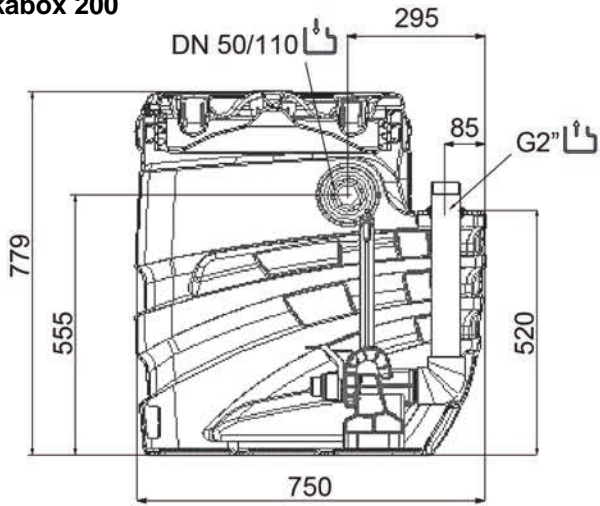
The dimensions below are given in millimetres.



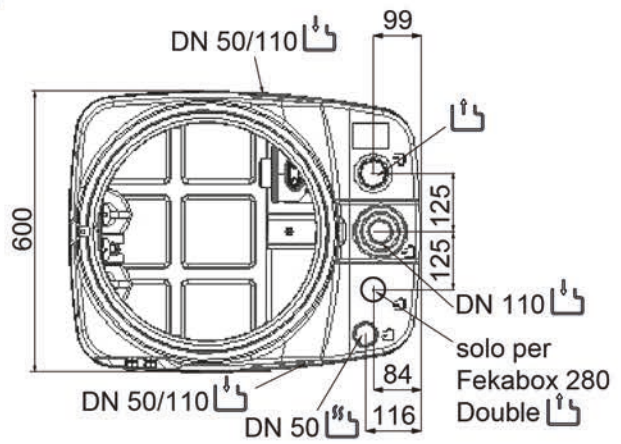
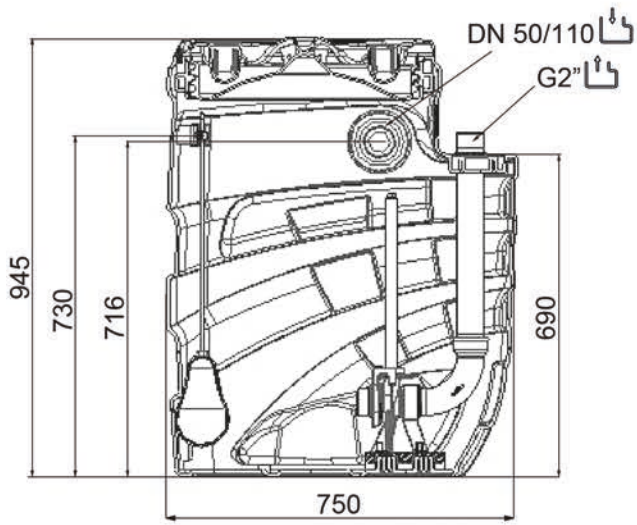
Key to Symbols

	Connection of delivery pipe or emergency outlet		Connection of ventilation pipe
	Collection pipe inlet		Recyclable material
	Outlet of power cables and float cables		

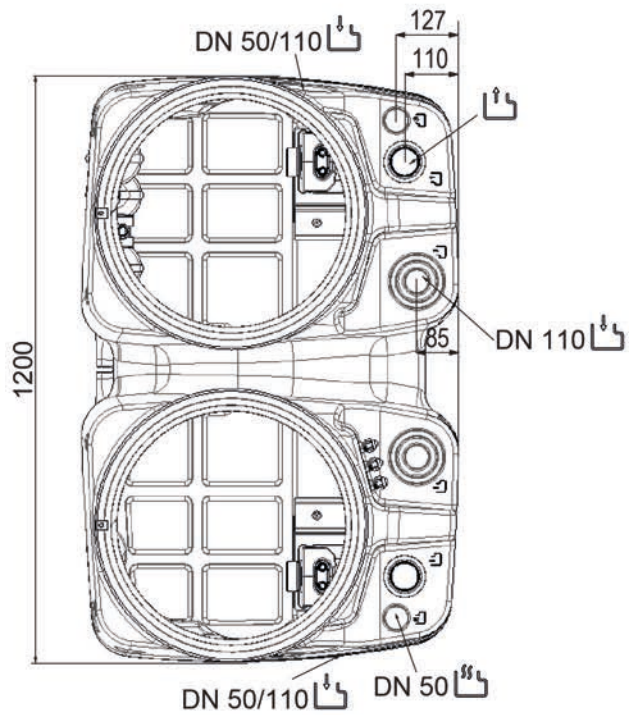
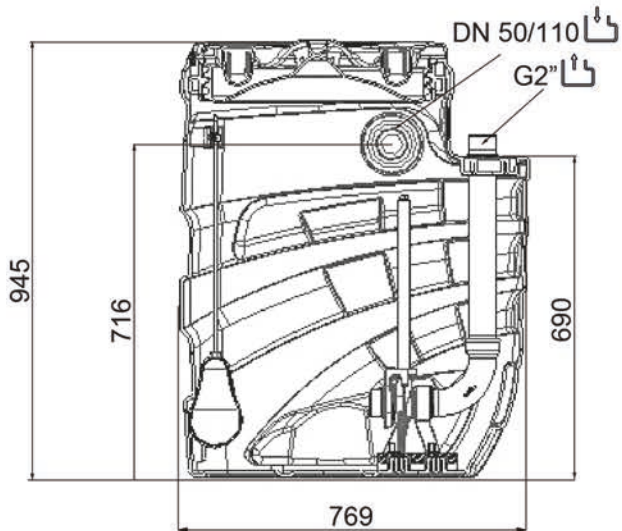
Fekabox 200



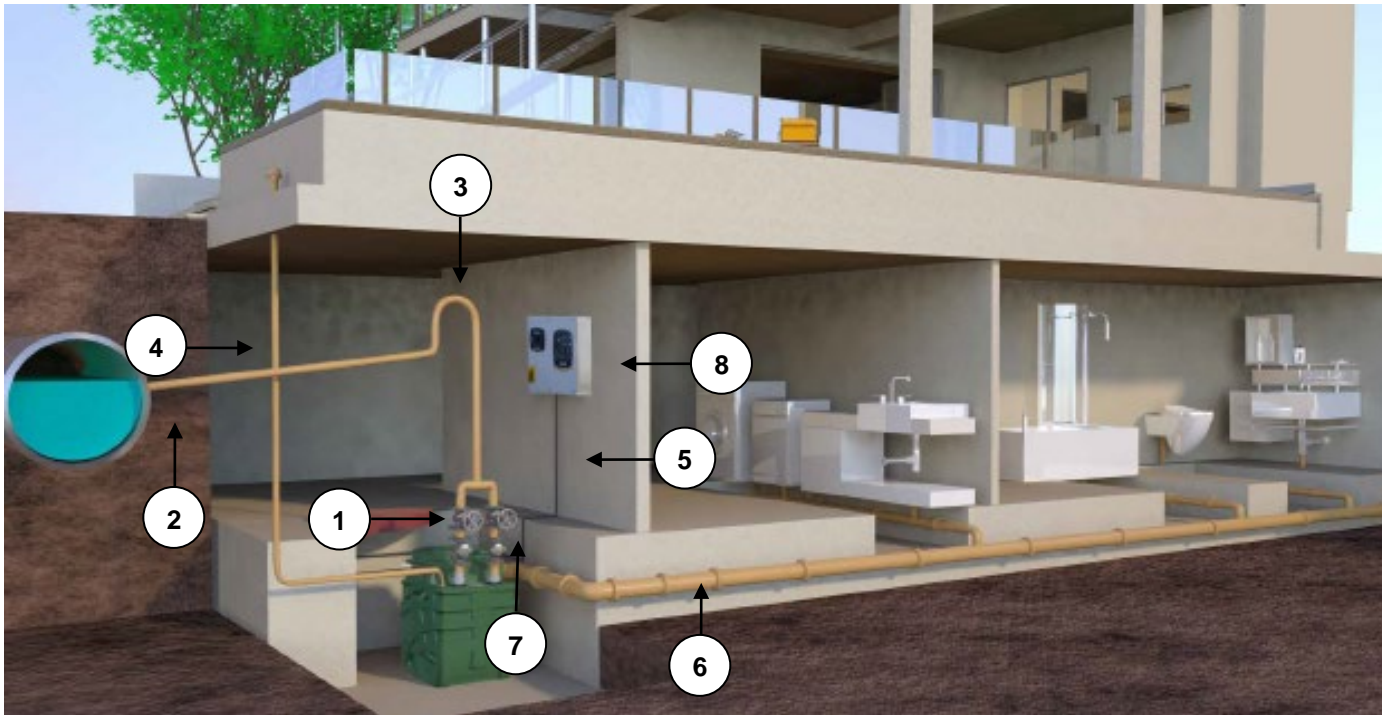
Fekafos 280-280 Double



Fekafos 550 Double



3. EXAMPLE OF INSTALLATION



FEKABOX-FEKAFOS are preassembled systems, ready for installation, requiring no adjustment, ideal for collecting and disposing of sewage and domestic waste water from basement rooms, situated below the level of the sewer network. In compliance with the accident-prevention regulations in force, the FEKABOX-FEKAFOS cannot be used for conveying inflammable or explosive liquids, such as petrol, diesel fuel, combustible oils, solvents, etc.

- 1 - Interception ball or gate valve
- 2 - Delivery
- 3 - Siphon
- 4 - Ventilation
- 5 - Power Cable
- 6 - Collecting pipe
- 7 - No Return Valve
- 8 - e-box control panel (only for fekafos models)

4. TANK INSTALLATION

The lifting stations of the Fekabox – Fekafos series have various inlet and outlet possibilities for the pipes. Depending on the type of installation and on the local standards in force it may be necessary to provide a siphon, a non-return valve on the pipe connecting to the public/private sewer network or to other ducts. Always refer to the local and/or national regulations, laws and standards in force. Anyway it is recommended to install check valves and interception valves upstream and downstream from the station. An example of installation is shown in **chapter 3**.



All the ducts must be installed in such a way that they are not stressed. The ducts must not exert stress on the station. Check that the electropump is securely fixed to the pipes and that all the hydraulic connections are tightened and watertight.

Where necessary provide suitable means for avoiding the transmission of vibrations and for protecting the pipes against the formation of ice.

4.1 Placing the tank inside the building

The tank may be laid on the floor, under the ground or housed in a masonry pit. Fig.2, Fig.3 – pag.150

In any case the surface on which it is laid must be perfectly horizontal and it must be ensured that the whole bottom of the tank is in contact with the surface.



For Fekabox 200 I, Fekabox 280 and Fekabox 550 Double I the cover of the tank is trafficable (max. weight 100 Kg, see fig. 1 – pag.150). In indoor installations (garage, basement, technical room), the tank must be fixed to the ground using the slots provided to prevent rotations, as indicated in figure 4.

FIX THE TANK TO THE GROUND BEFORE USE
Use screws TE M8 with respective fixture, use specific washers for soft materials ISO 7093

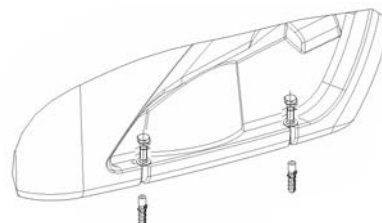


Fig. 4



Leave a free space of at least 60 cm around and above the station for installation and maintenance.

4.2 Placing the tank outside the building

If the tank would not be buried, to prevent damage to itself and to the seals, you should not expose it to heat sources such as direct sunlight can be at certain times of the year.



Do not position the lifting station directly on the ground. The site chosen must not have ground water and must not be subject to flooding. Suitable anchor the station so as to avoid rotation and floating. For this you can use the slots on the base of the tank. There must be a horizontal base suitable to bear the weight of the station during its operation. Depending on the characteristics of the terrain it may be necessary to create walls with bricks, prefabricated components or concrete. Fill the space between the ditch and the station with sand and compact it suitably. Protect the station suitably against frost.



Do not drive vehicles over the cover (see fig. 3 – pag.150). Fekabox / Fekafos: the cover can bear passing loads of 100 kg if installed underground.

You can close the ditch with a cover (manhole) or other means for facilitating subsequent maintenance. Put up suitable signals indicating the presence of the station so as to avoid possible damage caused unintentionally. Ensure that there is sufficient space for installation and maintenance around and above the lifting station.



Position any capacitor holder and/or electric control panel in a place sheltered from the elements.

After having completed the hydraulic and electric connection, it is recommended to place clean sand around the container to reduce any movements caused by the system and/or by the surrounding terrain.

4.3 Making holes for the collection and ventilation pipes

Choose the inlet duct already prepared for the inlet pipe so that the arrival of the liquid does not disturb the operation of the floats (of both the pump and the tank, if provided). The Fekabox-Fekafos tanks have multiple inlets, all marked with the symbol:



Make a hole in the tank in the determined areas, indicated by the symbols shown above.

To make the hole use a hollow cutter as shown in figure 5 (indicative figure) with the correct diameter to suit the diameter of the input pipe.



Fig. 5

Tank model	Inlet diameter	Ventilation diameter	Emergency discharge diameter
Fekabox 200	DN50	DN50	DN 40
	DN110	-	
Fekafos 280	DN50	DN50	
	DN110	-	
Fekafos 550 Double	DN50	DN50	
	DN110	-	

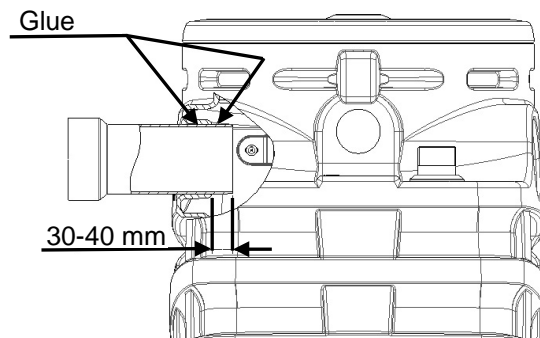
4.4 Gluing the collection and ventilation pipes

Before gluing the PVC pipe must be deburred and cleaned with a suitable solvent on the whole surface where the glue will be applied.

To ensure that it sticks firmly, the glue must be applied on the whole newly deburred surface, at least for a complete round.



Attention: Use glue suitable for sticking PVC materials with PE (for example: Simson ISR 70-03) Also check the drying times indicated in the specific instructions for the glue used. For the discharge pipe 2"PP (Fekabox 200) use the multifibre nylon sealant Loctite 55, the polymerising GEI sealant Loctite 5331 or Teflon. For the steel pipe znb 2" (Fekabox 200, Fekafos 280, Fekafos 280 Double, Fekafos 550 Double) and the other inlet connections use the most suitable glue in accordance with the standards of the local market.




4.5 Connecting the delivery pipe to the sewer network

Fekabox 200, Fekafos 280 and Fekafos 550 tanks have a 2" GAS outlet connection.

To guarantee a perfect seal it is recommended to use Teflon or suitable glues depending on whether the material being glued is plastic (PP or PVC) or metal.

4.6 Connecting the ventilation pipe

Remember to provide a ventilation pipe to avoid the formation of inflammable, explosive or toxic mixtures. On the station identify the seat for the

ventilation duct, marked with the symbol . Open the duct as indicated in **point 4.3** and connect the ventilation pipe so that it can evacuate any condensate from the station. Check that the coupling is watertight.

The various national regulations may require different ratios between the diameter of the outlet pipe and that of the ventilation pipe. Ensure that the pipe outlet is in the open (for example, above the ridge of the roof if the station is installed inside a building) and that the exhaust gases cannot get into other places such as buildings, rooms and similar. Avoid horizontal stretches in the ventilation duct.

4.7 Closing the cover


Check that the gasket of the cover is lying in the bottom of its seat and is not twisted before screwing the cover onto the tank. The tank is shipped with the gasket already fitted under the cover. Check that the gasket does not slip in the thread during screwing. In case of installation inside buildings, the cover must be screwed right down until the threaded seat appears in the slot shown in the figure, to guarantee that the station is hermetically sealed against liquids and gas. Before tightening the cover of the tank, lubricate the thread and O-ring using soapy liquids or lubricants for plastic pipes/couplings. (Fig. 6 – pag.150)



To prevent unauthorised opening of the cover, it is recommended to fix it to the station with the screw and the metal bracket provided. (see fig. 7b – pag.150).

The screw must be passed through the slot on the outer edge of the cover, and screwed into the seat in the tank. There are two cylindrical seats on the cover which can be used to facilitate closing of the cover by levering with suitable tools (see fig. 7a – pag.150).

4.8 Provision for emergency drainage

On the rear, at the base of the station, is a connection for an emergency drainage system, marked by the symbol . You can use the connection to attach a secondary pump (for example a manual diaphragm pump), the discharge pipe of which must be independent from that of the internal electropump in the station. Identify the seat for the duct on the bottom of the station, open the duct and connect the emergency drainage pipe. Check that the coupling is watertight. (Fig.8 – pag.151)

4.9 Non-return valve

Install a non-return valve in the pipe connecting to the public/private sewer network. This will avoid the reflux of liquid. Place the valve at a distance of at least 1 metre from the lifting station to allow the flow of liquid, moved by the pump, to open the shutter of the valve (unless indicated otherwise by the manufacturer). Always refer to the local and/or national regulations, laws and standards in force.

The non-return valves are available as accessory kits.

4.10 Interception gate valve

Install an interception valve in both the inlet pipe and the delivery pipe (connection to the public/private sewer network). In this way maintenance work can be carried out without having to drain the whole system. Gate valves or ball valves may be used.

The interception valves are available as accessory kits.



See example of installation in chapter 3.

5. PUMP INSTALLATION

Not applicable for models Fekabox 200 – Fekafos 280 – Fekafos 550 which have the pump already fitted inside.



Ensure that the difference in level between the pump and the sewage network is compatible with the pump performance.

FEKABOX 200 / Fig.10

The Fekabox range is equipped with a 2" and 1"1/4 polypropylene lowering device with anti-rotation bracket, and therefore intended for only one automatic single-phase pump with float $\leq 20\text{Kg}$.

- A. Remove the tank cover.
- B. Extract the slide (3) from the coupling foot (5)
- C. For FEKA 600: screw the special 2"F-1"1/4 M coupling (2.1), onto the lifting slide (3), and of the pump
- D. For FEKA VS-VX
 - the slide (3) onto the pump body
 - Remove the screw (1) from the pump body
 - Assemble the anti-rotation bracket (2) on the slide and then re-tighten the screw (1)
 - check that the length of the pump float is 250 mm (see fig 9a – pag.151).
- E. Reposition the slide/pump assembly on the foot (5) already fixed inside the tank.

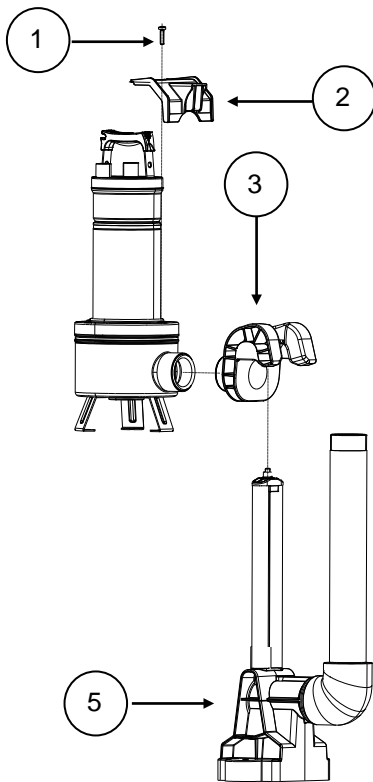
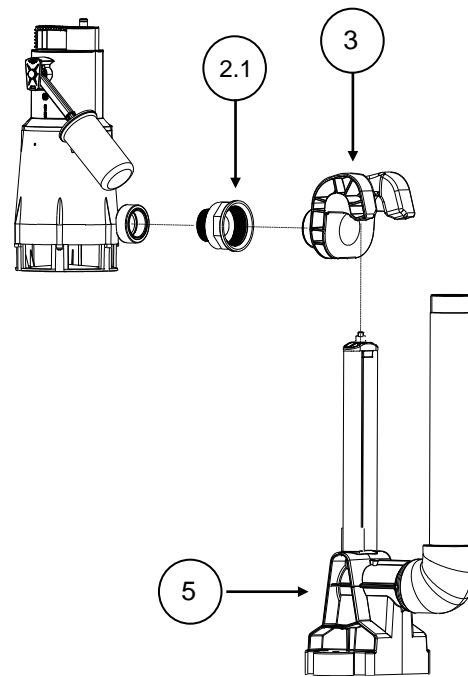


Fig. 10 Feka VS-VX



Feka 600

FEKABOX 200 /

PREPARED FOR THE FOLLOWING PUMPS

FEKABOX 200 FEKABOX 200 FX	FEKA 600 MA	FEKA FXV 20 MA
	FEKA VS-VX 550 MA	FEKA FXC 20 MA
	FEKA VS-VX 750 MA	DRENAG FX 15 MA
	FEKA VS-VX 1000 MA	GRINDER FX 15 MA
	FEKA VS-VX 1200 MA	

FEKAFOS 280 / - FEKAFOS 280 / DOUBLE - FEKAFOS 550 / DOUBLE

Fig. 11 – Fig.12 – pag.152

The Fekafos range is equipped with a 2" cast iron lowering device and is therefore intended for use with one or two non automatic single-phase pumps (Double models) or three-phase without float, which must be installed in combination with a control panel.

A. Remove the tank cover.

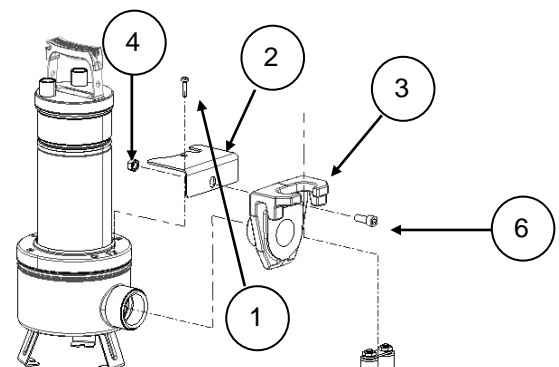
B. FEKA VS-VX:

- Check that the length of the pump float is 250 mm (see fig 9a – pag.151).
- Remove the top screw from the flange on the delivery side (1).
- Assemble the anti-rotation bracket (2).
- Replace the screw (1).
- Extract the slide from the coupling foot (5) and connect it to the delivery port of the pump. Using the screw (6) and the nut (4), fix the slide to the pump as indicated in the figure 13.

C. GRINDER 1400-1800: Extract the slide from the coupling foot (5) and connect it to the delivery port of the pump: using the screw (6) M10X25

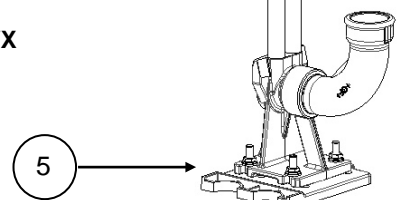
D. OTHER PUMPS (list in table page 27). Extract the slide (3) from the coupling foot (5) and connect it to the delivery outlet by means of the threaded flange supplied with the pump.

E. Reposition the slide/pump assembly on the foot (5).



Feka VS-VX

Fig. 13



FEKAFOS 280 /

PREPARED FOR THE FOLLOWING PUMPS

FEKAFOS 280	FEKA VS - VX 550 MNA-TNA
	FEKA VS - VX 750 MNA-TNA
	FEKA VS - VX 1000 MNA-TNA
	FEKA VS - VX 1200 MNA-TNA
	FEKA FXV 20 MNA-TNA
	FEKA FXC 20 MNA-TNA
	DRENAG FX 15 MNA-TNA
	GRINDER FX 15 MNA-TNA

PREPARED FOR THE FOLLOWING PUMPS

FEKAFOS 280 DOUBLE	FEKA VS - VX 550 MNA-TNA
	FEKA VS - VX 750 MNA-TNA
	FEKA VS - VX 1000 MNA-TNA
	FEKA VS - VX 1200 MNA-TNA
	FEKA FXV 20 MNA-TNA
	FEKA FXC 20 MNA-TNA
	DRENAG FX 15 MNA-TNA
	GRINDER FX 15 MNA-TNA

FEKAFOS 550 Double /

PREPARED FOR THE FOLLOWING PUMPS

FEKAFOS 550 DOUBLE	FEKA VS - VX 550 MNA-TNA
	FEKA VS - VX 750 MNA-TNA
	FEKA VS - VX 1000 MNA-TNA
	FEKA VS - VX 1200 MNA-TNA
	FEKA FXV 20 MNA-TNA
	FEKA FXC 20 MNA-TNA
	DRENAG FX 15 MNA-TNA
	GRINDER FX 15 MNA-TNA

6. ELECTRICAL CONNECTIONS AND ADJUSTMENT OF FLOATS

6.1 Choice of the electric control panel

Below are the indications for the choice of a control panel only for Fekafos 280 and 280 Double and Fekafos 550 Double models because for Fekabox models the pump is automatic.

The station must be adequately protected against overload and short-circuit.



Check the correct combination of electrical data between the control panel and the electropump. An improper combination can cause problems and not guarantee the protection of the electric motor.



Always refer to the electropump manual and to the instructions supplied with the electric panel.

Commissioning

Always refer to the local and/or national regulations, laws and standards in force.

It is recommended to contact the Dab Assistance Service for the commissioning of the system.

For connecting the system it is recommended to use exclusively the panels ED, E-BOX indicated by the manufacturer, supplied complete with detailed instructions for electrical connection and use.

6.2 Electrical connections

The pumps are provided with an earthed cable; ensure that the earth system is efficient. Before connecting the system to the mains, ensure that the mains voltage is the same as the value indicated on the pump data plate and that the earth connection can be made efficiently.

It is recommended to apply the pump data plate (supplied in the package in addition to the one already applied on the pump by the manufacturer) on the tank, in a clearly visible position, or on the control box.

The connection must be made as follows:

Pump:

Pass the pump cable through the cable gland fitted on the tank, recognisable by the symbol , tighten the ring nut and connect the cable to the panel as indicated in the respective manual.

For Dab pumps and for any pump fitted with a cable having a section of 4G1.5 mm² or larger, to ensure that the passage and seal are guaranteed by the cable clamps, it is advisable to replace the grommet already fitted in the clamps with the grommet supplied in the tank kit. For references to the details, figure 10 shows an example of the replacement of the grommet on the Fekafos 280 tank.

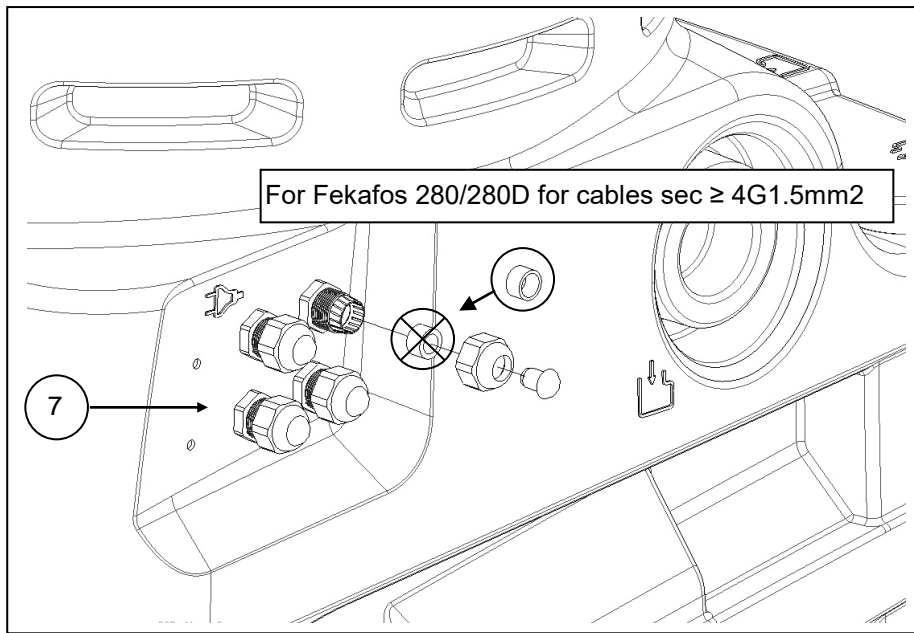
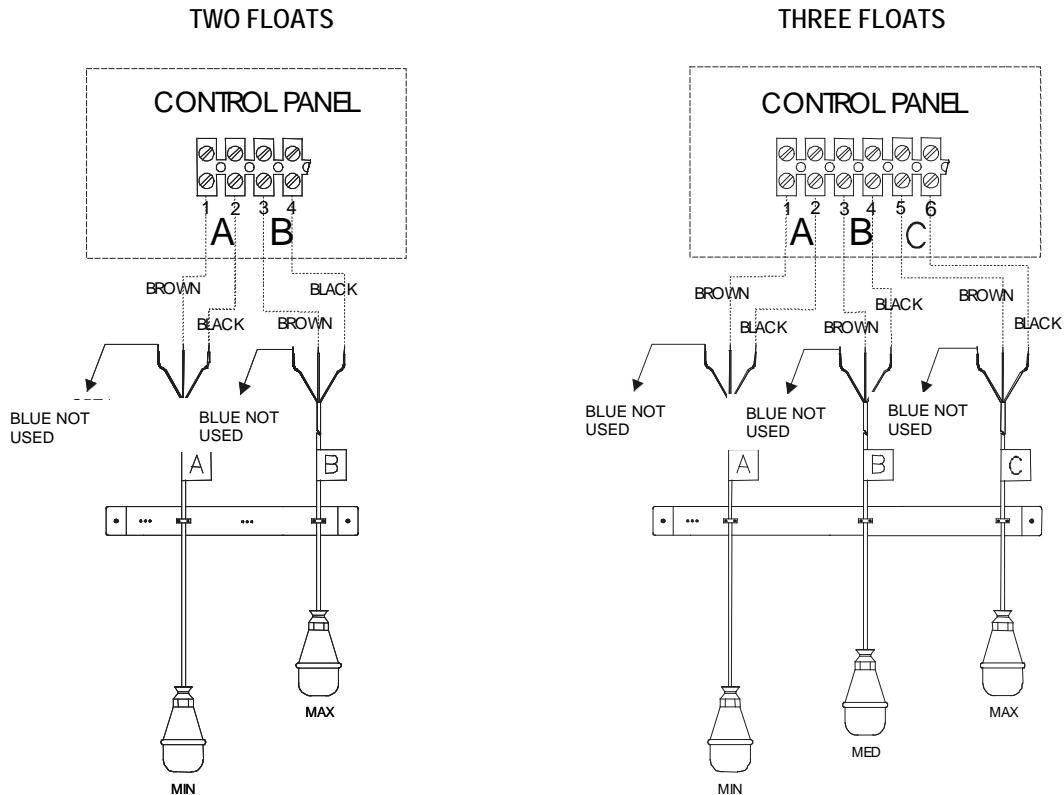


Fig. 14

No. CABLE CLAMPS FITTED	
FEKABOX 200	1
FEKAFOS 280	4
FEKAFOS 280 DOUBLE	6
FEKAFOS 550 DOUBLE	6

Floats:

The floats (two for FEKAFOS 280 I three for FEKAFOS 280-550 DOUBLE) are already installed and with their height set inside the tank. Pass the float connecting cables through the fairleads preassembled on the tank (**detail 7, fig. 14**), tighten the ring nut and connect the cable to the control panel as indicated in the respective manual, taking care that the terminals on the panel correspond to the respective float cables.




Every single cable of the floats is composed of three leads: BLACK-BROWN-BLUE. The BLUE lead is not used and must be insulated by the user.

7. PREPARATION OF THE ALARM SYSTEM FOR FEKAFOS 280 AND 280 DOUBLE

(Supplied only on request for Fekabox 200)

The preparation consists of having a float support composed of a PP pipe, **fig. 15**. For Fekabox 200 the length must be shortened to 184 mm. Strictly respect the lengths shown in the figure.

Pass the float cable out of the tank, through the preassembled grommet  , tighten the ring nut and connect it to the control unit. For Fekabox 200, in the kit supplied, along with the alarm floating support there will be an extra cable clamp, necessary for the float cable to come out.

Before filling the tank, activate the float manually to check the operation of the alarm system. Make a test of the complete system with clean water, checking that the alarm system intervenes only in the case of a pump malfunction or lack of power in the mains.

To do this, proceed as follows:

1. Fill the tank up to pump intervention level and interrupt the power supply to the pump. In this situation the alarm system must not intervene.
2. Continue filling the tank until the alarm system intervenes. Check that in this condition the water level is a few centimetres below the MAX emergency level 510 mm for Fekabox 200 and 680 mm for Fekafos 280 – 280 D.

If this condition does not occur, shorten the length of the cable between the cable grommet and the safety float.

The maximum level alarm float system can be managed by panels of the ED, E2D, E-BOX family and by the Control AS1. The latter is an electronic control unit with charge reserve already equipped with a float. (**Fig.16 – pag.153**)

8. FIRST START-UP



Before starting up the electropump check that in the tank system there is no residue or other material that could harm the correct operation of the system.

In this phase you can leave the interception valve in the inlet pipe closed and fill the lifting station with clean water. Open the interception valve in the delivery pipe and check that the pipes are tightened and perfectly sealed and that the electropump is working correctly. Check also that the electropump is primed. Open the interception valve in the inlet pipe and check that the station is working correctly.



The flow of liquid coming from the various utilities must not prevent the correct operation of the floats present in the container.

In the case of a three-phase electropump, check that the impeller is turning in the correct direction. Check also the electropump manual. Check that the levels of float intervention are correct, and if necessary adjust them to suit the actual needs of the system. When there are two electropumps, the floats must be adjusted so that the second pump starts after the first and only if the first is not able to send to the sewer duct as much liquid as arrives from the various utilities. Check that the electropump cannot become unprimed during operation. Check that the number of starts per hour is compatible with the characteristics of the system components. Check that the system is working correctly and put it into service. Close the cover or covers of the station, screwing them into place. If necessary, fix the cover in its seat in such a way as to prevent unauthorised opening of the cover (**see chapter 4.7**).

8.1 Operating flow rate

It must be guaranteed that the speed of the liquid in the delivery pipe is at least 0.7 m/s and lower than 2.3 m/s.

8.2 Operation

When the liquid in the tank reaches the level corresponding to the closure of the float contact that commands the electropump, the pump starts and gradually empties the container. The electropump stops when the liquid reaches the minimum level corresponding to the opening of the float contact. When there are two electropumps, the floats must be adjusted so that the second pump starts after the first and only if the first is not able to send to the sewer duct as much liquid as arrives from the various utilities. There may be a float placed higher than the others in the pumping station, its function is to indicate the presence of an abnormally high level of the liquid in the tank.

9. MAINTENANCE

After starting up the plant, it is advisable to inspect and clean it, especially the no return valve, about every three months. This interval may be increased after the first inspections have given a favourable outcome.

Clean the pump accurately, removing any foreign bodies stuck in the intake grille and check that the float moves freely. If necessary, remove the pump from the tank.

It is recommended to clean the system at least once a year with running water, operating the pump repeatedly.

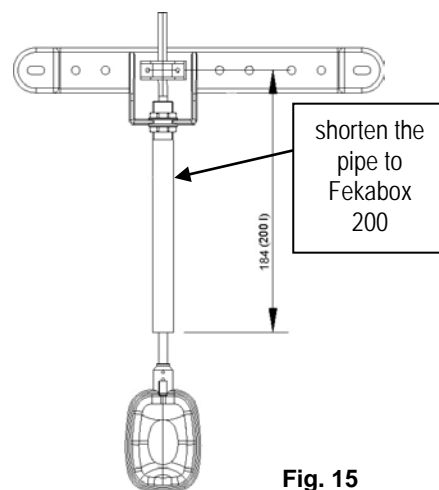


Fig. 15

ALARM FLOAT

10. TROUBLESHOOTING

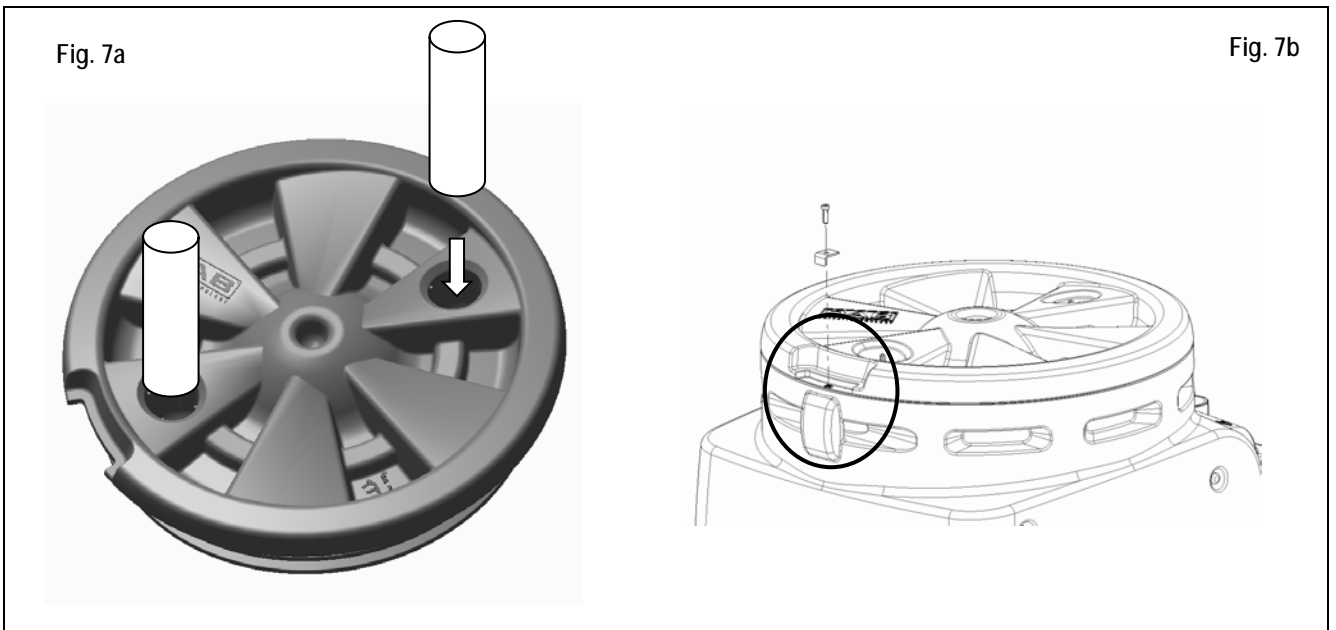
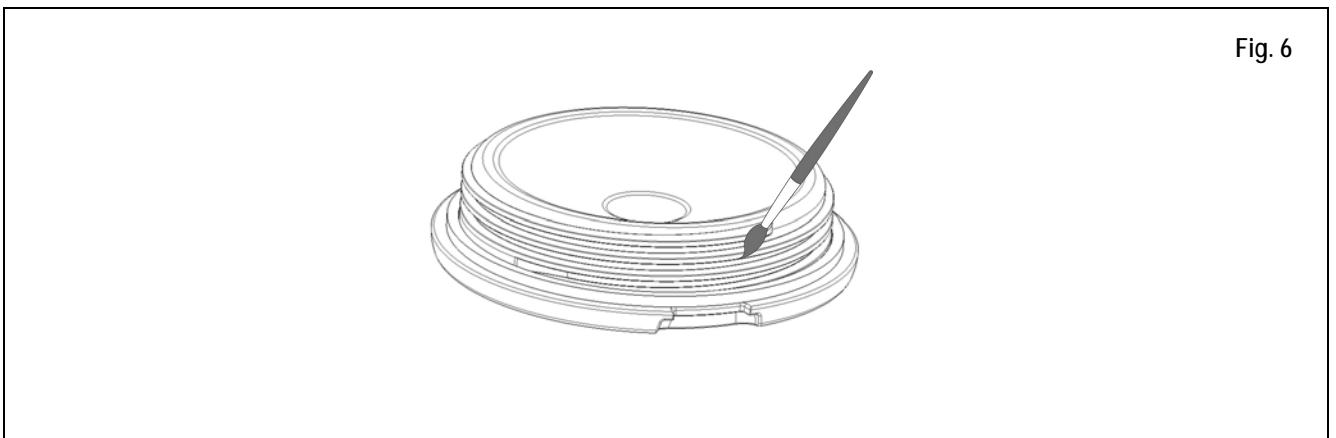
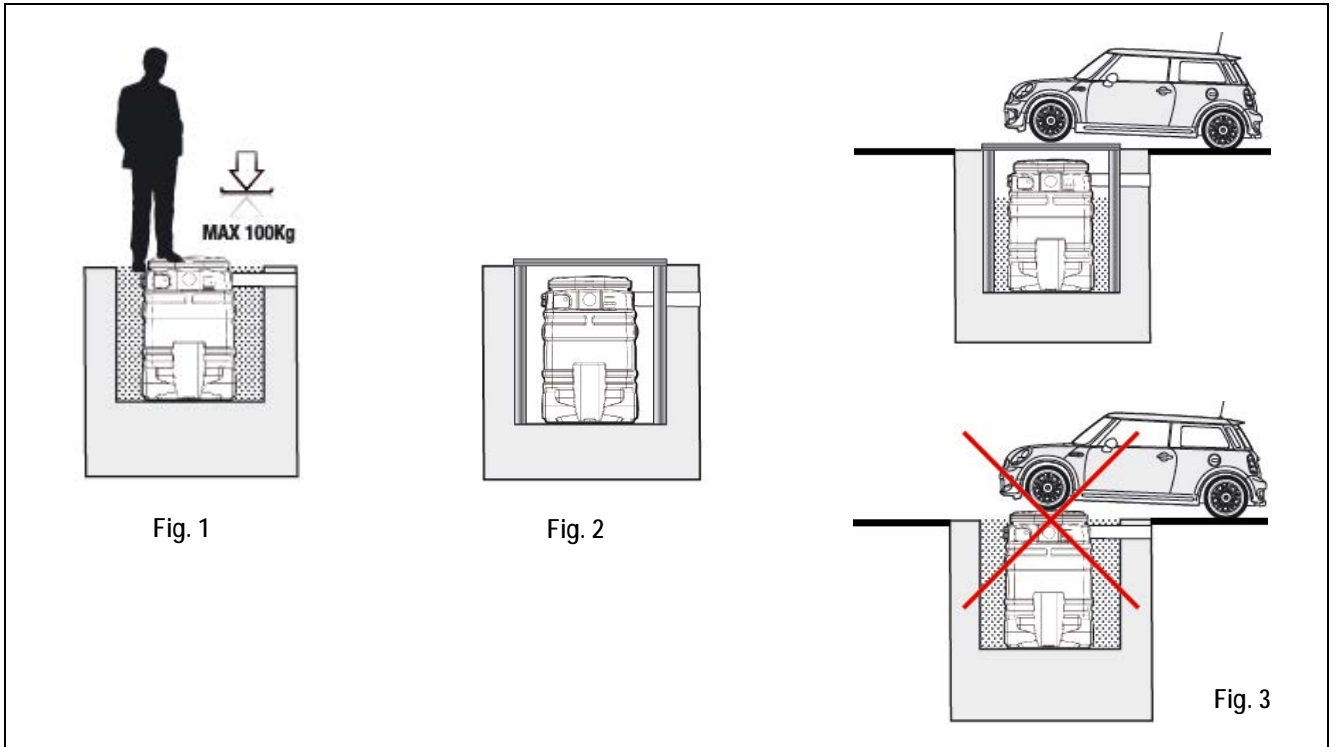
FAULTS	CHECK (POSSIBLE CAUSES)	REMEDY
1. Water is overflowing from the tank and the pump is not working. (In this situation the alarm, if installed, must intervene. Otherwise check the alarm system installation instructions.)	A. Delivery pipe blocked. B. The pump is not correctly connected to the delivery pipe. C. No return valve blocked. D. Interception valve closed. E. Pump characteristics are insufficient. F. The pump intake grille is blocked. G. The impeller is worn or blocked by foreign bodies.	A. Remove the obstructions. B. Check that the pump slide is at its full limit (only for 280 l tanks). C. Clean the valve. D. Open the valve. F. Remove the obstructions. G. Remove the obstructions.
2. The alarm, if installed, intervenes, but the system operates regularly.	A. Check the exact position of the alarm float.	A. Repeat the checking and installation operations.

11. DISPOSAL

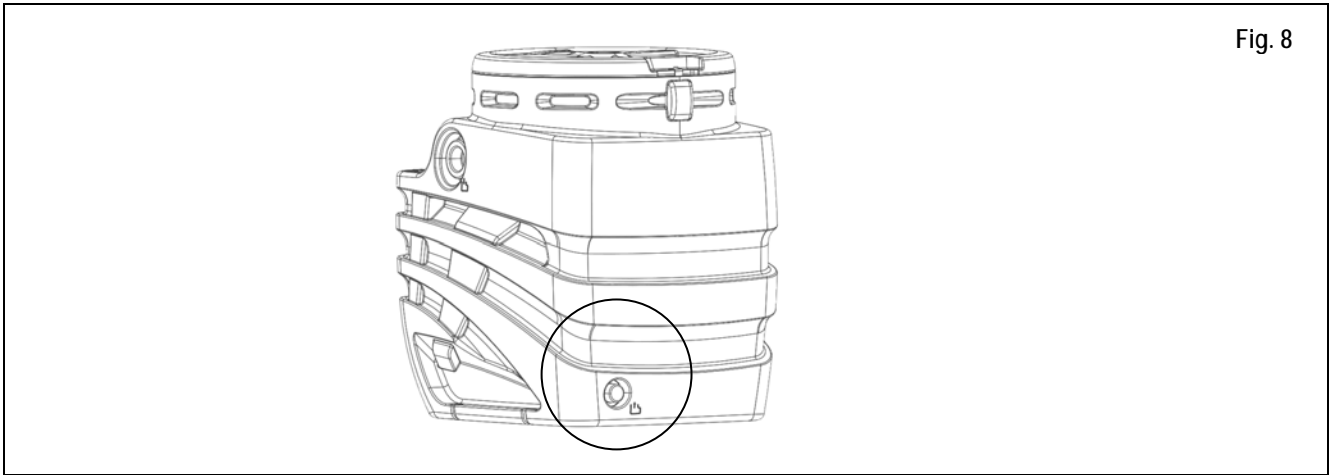
This product or any part of it must be disposed of correctly:

1. Use public or private local systems for waste collection.
2. If that is not possible, contact Dab Pumps or the nearest authorised service workshop.

DRAWINGS



DRAWINGS



FEKABOX 200 /

FEKA VS

Fig. 9

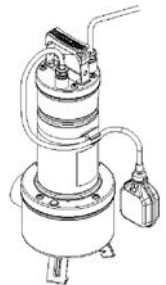
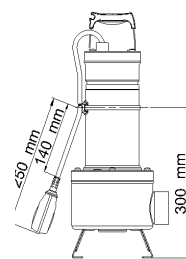
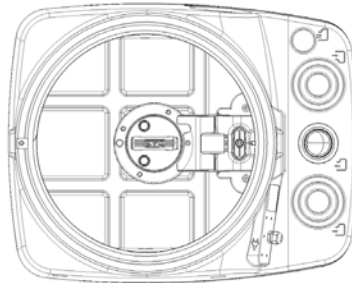
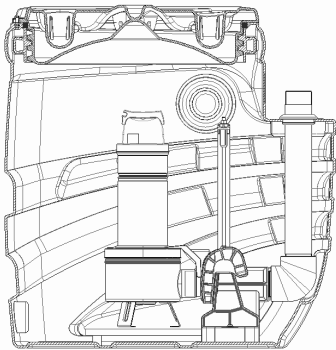


Fig. 9 a

FEKA VX

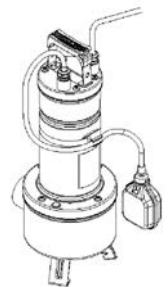
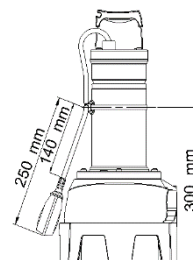
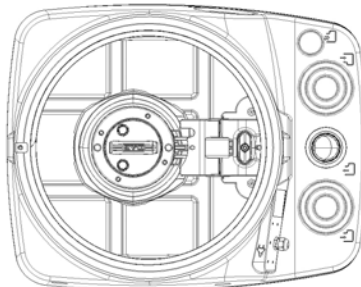
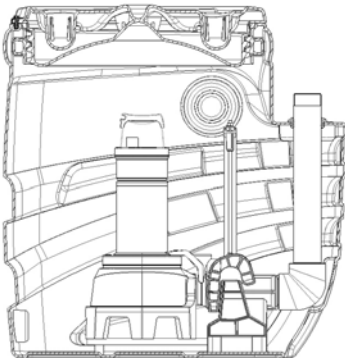
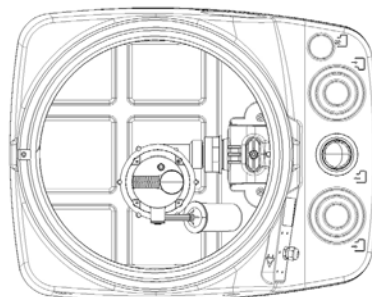
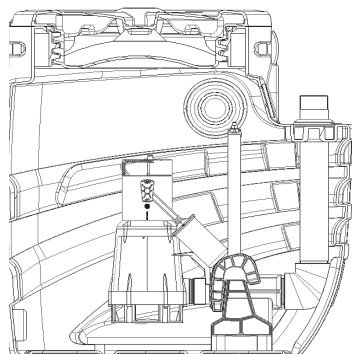


Fig. 9 b

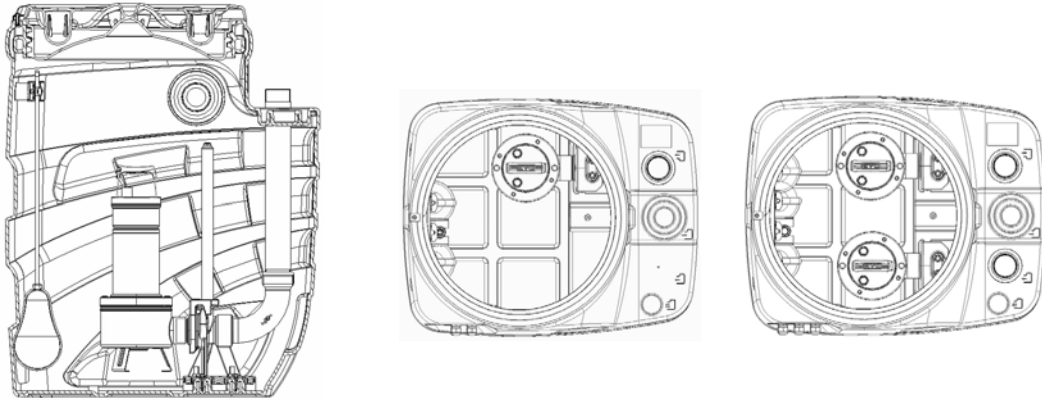
FEKA 600



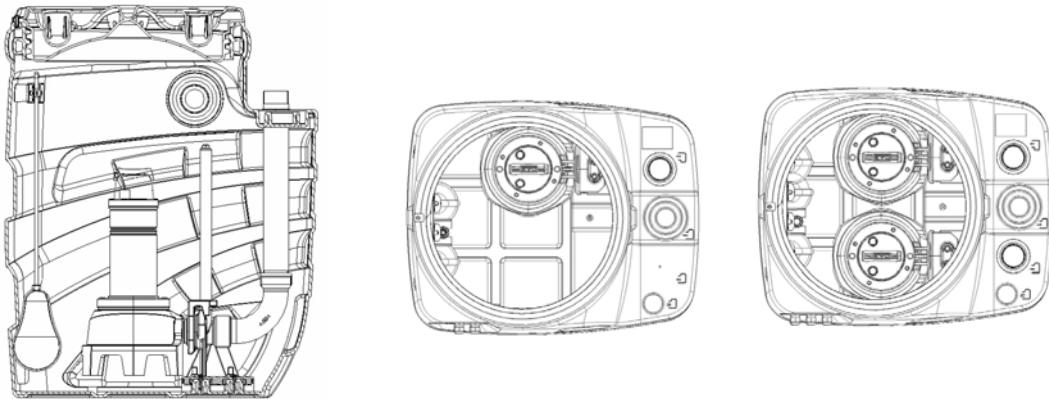
FEKAFOS 280 /

FEKAFOS 280 / 280 DOUBLE
FEKA VS

Fig. 11



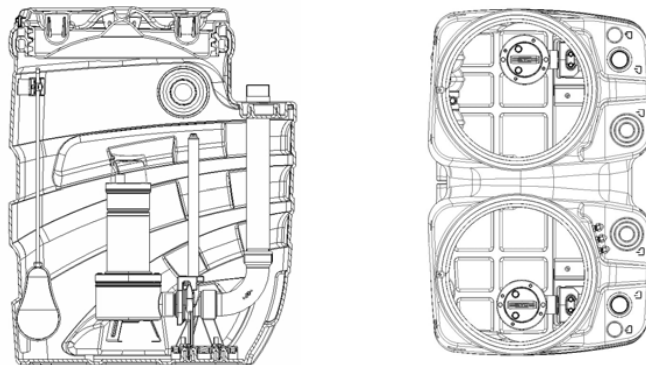
FEKAFOS 280 / 280 DOUBLE
FEKA VX



FEKAFOS 550 DOUBLE /

FEKAFOS 550 DOUBLE
FEKA VS

Fig. 12



FEKAFOS 550 DOUBLE
FEKA VX

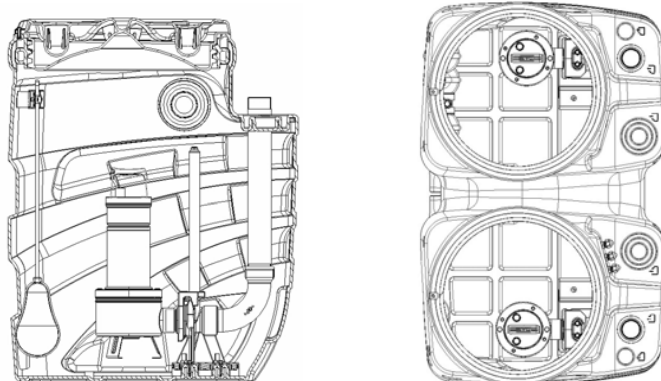
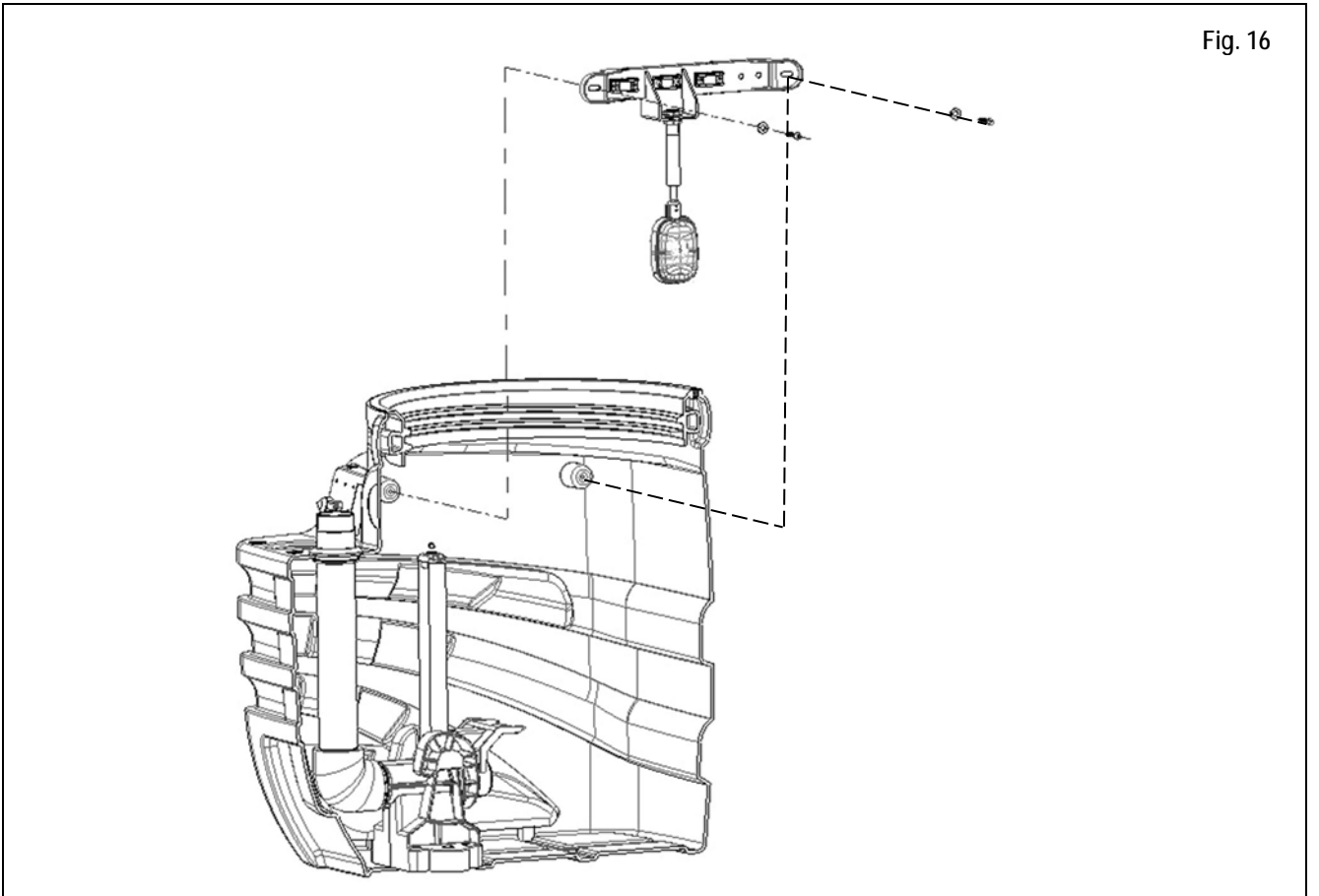


Fig. 16



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