
ISTRUZIONI PER L'INSTALLAZIONE E LA MANUTENZIONE
INSTRUCTIONS FOR INSTALLATION AND MAINTENANCE
INSTALLATIONSANWEISUNG UND WARTUNG
INSTRUCTIUNI DE INSTALARE SI INTRETINERE

FEKALIFT 100-A
FEKALIFT 200-A
FEKALIFT 300-A



FEKALIFT 100-A / FEKALIFT 200-A / FEKALIFT 300-A

(IT) DICHIARAZIONE DI CONFORMITÀ CE

Noi, **DAB Pumps S.p.A. - Via M.Polo, 14 – Mestrino (PD) – Italy**, dichiariamo sotto la nostra esclusiva responsabilità che i prodotti ai quali questa dichiarazione si riferisce sono conformi alle seguenti direttive:

- **2006/95/CE (Low Voltage Directive)**
- **2004/108/CE (Electromagnetic Compatibility Directive)**

ed alle seguenti norme:

- **EN 60335-1 : 08 (Household and Similar Electrical Appliances – Safety)**
- **EN 60335-2-41 : 05 (Particular Requirements for Pumps)**
- **EN 12050-1 : 03 (Lifting plants for wastewater containing faecal matter).**

(DE) EG-KONFORMITÄTSERKLÄRUNG

Wir, **DAB Pumps S.p.A. - Via M.Polo, 14 – Mestrino (PD) – Italy**, erklären unter unserer ausschließlichen Verantwortlichkeit, dass die Produkte auf die sich diese Erklärung bezieht, den folgenden Richtlinien:

- **2006/95/CE (Low Voltage Directive)**
- **2004/108/CE (Electromagnetic Compatibility Directive)**

sowie den folgenden Normen entsprechen:

- **EN 60335-1 : 08 (Household and Similar Electrical Appliances – Safety)**
- **EN 60335-2-41 : 05 (Particular Requirements for Pumps)**
- **EN 12050-1 : 03 (Lifting plants for wastewater containing faecal matter).**

(GB) DECLARATION OF CONFORMITY CE

We, **DAB Pumps S.p.A. - Via M.Polo, 14 – Mestrino (PD) – Italy**, declare under our responsibility that the products to which this declaration refers are in conformity with the following directives:

- **2006/95/CE (Low Voltage Directive)**
- **2004/108/CE (Electromagnetic Compatibility Directive)**

and with the following standards:

- **EN 60335-1 : 08 (Household and Similar Electrical Appliances – Safety)**
- **EN 60335-2-41 : 05 (Particular Requirements for Pumps)**
- **EN 12050-1 : 03 (Lifting plants for wastewater containing faecal matter).**

(RO) DECLARAȚIE DE CONFORMITATE CE

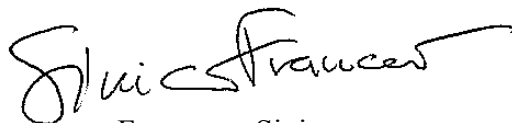
Noi, **DAB Pumps S.p.A. - Via M.Polo, 14 – Mestrino (PD) – Italy**, declarăm sub exclusivă noastră responsabilitate că produsele la care se referă această declarație sunt conforme cu următoarele directive:

- **2006/95/CE (Low Voltage Directive)**
- **2004/108/CE (Electromagnetic Compatibility Directive)**

și cu următoarele norme:

- **EN 60335-1 : 08 (Household and Similar Electrical Appliances – Safety)**
- **EN 60335-2-41 : 05 (Particular Requirements for Pumps)**
- **EN 12050-1 : 03 (Lifting plants for wastewater containing faecal matter).**

Mestrino (PD), 08/02/2010



Francesco Sinico
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GENERAL



Read this documentation carefully before installation. Installation and operation must comply with the local safety regulations in force in the country in which the product is installed. Everything must be done in a workmanlike manner. Failure to respect the safety regulations not only causes risk to personal safety and damage to the equipment, but invalidates every right to assistance under guarantee.

The appliance is not intended to be used by persons (including children) with reduced physical, sensory or mental capacities, or who lack experience or knowledge, unless, through the mediation of a person responsible for their safety, they have had the benefit of supervision or of instructions on the use of the appliance. Children must be supervised to ensure that they do not play with the appliance (CEI EN 60335-1: 08).

APPLICATIONS

Fekalift systems are indicated exclusively for the processing of waste water, toilet paper and faecal matter. Other materials or solid substances (cotton wool, tampons, sanitary towels, condoms, hair, cotton cloths) or the pumping of liquids such as solvents or oils may cause damage to the system and decrease the performance contemplated under guarantee.

The *Fekalift 100-A* and *200-A* systems must be connected to a toilet with horizontal outlet according to standards EN33 or EN37. (fig.A-D page 21)

Fekalift 300-A systems are built-in lifting stations suitable exclusively for suspended toilets.

FEKALIFT 100-A / FEKALIFT 200-A

1. TECHNICAL DATA AND LIMITATIONS OF USE

<i>Fekalift 100-A</i>		<i>Fekalift 200-A</i>	
Connection to:	toilet	Connection to:	Toilet + Wash basin + Shower
Vertical outlet:	max. 3 m.	Vertical outlet:	max. 4 m.

2. INSTALLATION

2.1 Connection to toilet

FEKALIFT 100-A : the system must be connected to a toilet with horizontal outlet, as indicated in fig.B page 21

FEKALIFT 200-A : the system must be connected to a toilet with horizontal outlet, closing the unused lower side inlet, as indicated in fig.E-F page 21

2.2 Connection to discharge

Push the large end of the bend into the outlet of the appliance, turn it in the desired direction and fix it with a clamp. **For FEKALIFT 100-A** push also mouth B onto the other end and fix it too with a clamp. Then connect the discharge to the pump outlet and fix it with a clamp (fig. C-G page 21).

3. ELECTRICAL CONNECTION

Attention: always respect the safety regulations!



The electrical connections must be made after assembly of the system!

- **Electrical installation must be carried out by an expert, authorised electrician, who takes on all responsibility.**
- **Connect the plug to a 10 – 16A 2-pole EARTHED socket.**
- The socket must supply only the power to the system; for **FEKALIFT 100-A** it must be connected to an automatic safety switch and for **FEKALIFT 200-A** to a highly sensitive differential switch calibrated at 30 mA.

4. COMMISSIONING

- Connect to the power socket.
- Flush the toilet once; the system must start automatically, model **FEKALIFT 100-A** must work within a period of 10 max. 30 sec. and **FEKALIFT 200-A** within a period of 5 max. 30 sec. If the start time exceeds 35 sec., check that the discharge pipe is not crushed or blocked.

After this operation the toilet can be used just like an ordinary one.

5. MAINTENANCE AND CLEANING



- **Repairs to the motor or the electric components may be carried out only by specialised and authorised personnel.**
- **All repair and maintenance work must be carried out only after having disconnected the appliance from the power supply mains.**
- **In most cases any malfunctions are due to minimum causes which you can usually solve yourself. For all other problems apply to an authorised repair centre (follow the instructions in the TROUBLESHOOTING table).**

5.1 Removing the grinder from the toilet pan

- **Disconnect the appliance from the power supply mains.**
- Turn off the corner supply tap and remove most of the water from the siphon of the toilet basin.
- Disconnect the delivery pipe and the supply pipes.
- Remove the appliance from the toilet.

Turn the electric power back on only after having concluded reassembly of the system.

5.2 Foreign bodies

If a foreign body gets into the *Fekalift* through the toilet, the problem can be solved easily without having to contact service personnel: **first of all take the plug out of the socket**; remove the foreign body from the toilet inlet with the aid of a screwdriver or a piece of wire. **Take care not to make a hole in the pump inlet!**



The blades are very sharp, NEVER PUT YOUR HAND INTO THE APPLIANCE!

6. TROUBLESHOOTING

FAULTS	CHECKS (possible causes)	REMEDIES
1. The system cuts out abnormally.	A. The system has continued pumping too long (thermal safety switch). B. Error in the control system.	A. Take the plug out of the socket. Wait an hour and reconnect the system. Otherwise contact an authorised customer service centre.
2. The system switches on with interruptions.	A. The connected plumbing systems are not sealed (valves, etc.). B. The check valve is not closing properly.	A. Check the system. B. Clean or change the check valve.
3. The motor works discontinuously and the water is flowing very slowly.	A. The ventilation hole in the cover is blocked.	A. Clean the ventilation hole.
4. The motor is working correctly but it does not switch off, remaining operating for a long time.	A. Discharge too high or too long or presence of too many bends in the pipes with consequent loss of pressure. B. The bottom of the pump is clogged.	A. Check the system. Otherwise contact an authorised customer service centre.
5. The motor does not start.	A. The system is not connected to the power mains. B. The power socket is damaged. C. There is a problem with the motor or with the control system.	A. Connect the system to the power mains. Otherwise contact an authorised customer service centre.
6. The motor is working with a loud knocking noise, or it is buzzing and not working.	A. The motor is blocked by a foreign body. B. There is a problem with the motor or with the control system.	A. Remove the foreign body. Otherwise contact an authorised customer service centre.
7. For FEKALIFT 200-A: cloudy water returning into the shower.	A. The shower is too low with respect to the Fekalift system. B. The check valves of the side inlets are clogged.	A. Check the system installation. B. Clean the check valves from the outside, otherwise contact an authorised customer service centre

FEKALIFT 300-A LIFTING STATION**1. TECHNICAL DATA AND LIMITATIONS OF USE**

- The FEKALIFT 300-A system is a small lifting station with extremely compact dimensions, **suitable ONLY** for suspended toilets, to be installed behind ordinary wall modules, fig.A-B page 22
- The system is used for the disposal of waste water from a toilet and possibly from other plumbing equipment.
- The system is **NOT** intended for use in public and/or commercial settings.

2. INSTALLATION

FEKALIFT 300-A is a built-in system. It may be fitted only and exclusively by a qualified, specialised technician.

The small lifting station is equipped with retaining devices which prevent the unit becoming accidentally detached from the toilet.

2.1 System assembly

To assembly the Fekalift 300-A system follow fig.C-D page 22



An inspection/maintenance hatch must be provided with ventilation slots in the frame having at least the following dimensions: L=400 mm H= 400 mm!

2.2 Connection to the toilet - see fig.E-F page 22

- The sealing ring is suitable for connecting a 100 mm toilet discharge pipe.
- Spread some lubricating gel or liquid soap on the end of the pipe to be inserted.
- Align the sealing ring in the direction of the end of the pipe.
- Push the sealing ring onto the end of the pipe.

ATTENTION: the height of the toilet must be adapted so that the discharge pipe has a minimum slope of 3%.

2.3 Connection to a wash basin - see fig.G-H page 22

- Cut the top opening with the aid of a craft knife.
- Trim the cut part accurately so as not to leave any sharp edges.
- Use an inlet sleeve for the cover pipe (ref.A fig.H)
- Insert the wash basin outlet (Ø 32) in the inlet sleeve and fix it with the clamps provided (ref.B fig.H).

2.4 Preparation of the discharge pipe - see fig.I page 22

- Use the outlet bend and the inlet sleeve (ref.F).
- Fit the inlet sleeve onto the outlet bend, using a fixing clamp (ref.B).
- Align and insert the whole in the black flexible pipe as indicated in fig.G. Fix the base of the outlet bend with a clamp.
- If necessary, cut the outlet bend to adapt it to the corresponding diameter of the pipe.
- We recommend fitting a discharge valve on the lowest point of the discharge pipe, so as to be able to empty the delivery pipe when carrying out maintenance work on the system.
- To avoid idle suction of the siphon it is necessary to provide a ventilation duct or to increase the diameter of the horizontal outlet.

3. ELECTRICAL CONNECTION:

Attention: always respect the safety regulations!

(e.g. DIN VDE 0100 part 701 – Damp and wet rooms, differential switches, etc....)



- **Electrical installation must be carried out by an expert, authorised electrician, who takes on all responsibility.**
- **The power socket must be applied in an appropriate way and be freely accessible.**
- **The power line must be EARTHED (class I) with a high-sensitivity fuse (30 mA) and protection calibrated at 16A.**
- If any cable is damaged it must be examined by the manufacturer or by the customer service centre since it is a safety hazard and must be replaced immediately. Before doing any work, disconnect the power supply to the system!
- When connecting the electric cables the following correspondence must be strictly respected:

Brown = phase
Blue = neutral
Yellow/Green = earth

4. COMMISSIONING

- After all the electrical and plumbing connections have been made, the connected systems may be started up, one after the other, for a few minutes. Ensure that the connections are absolutely dry!
- Then flush the toilet: the appliance starts automatically and works for a period of 10 to 30 seconds, depending on the height of delivery. If the operating time is longer than 35 seconds, check that the outlet is not bent or the ventilation hole clogged.



- **The flush tank and the valves of the connected plumbing systems must have an absolutely perfect seal, since any leaks, even of minimum extent, cause undesired operation of the pump.**
- **Close the inspection/maintenance hatch only if all the tests performed have obtained perfectly satisfactory results.**

5. MAINTENANCE AND CLEANING



- Repairs to the motor or the electric components may be carried out only by specialised and authorised personnel.
- All repair and maintenance work must be carried out only after having disconnected the appliance from the power supply mains.
- In most cases any malfunctions are due to minimum causes which you can usually solve yourself. For all other problems apply to an authorised repair centre (follow the instructions in the TROUBLESHOOTING table).

5.1 Dismantling the lifting station.

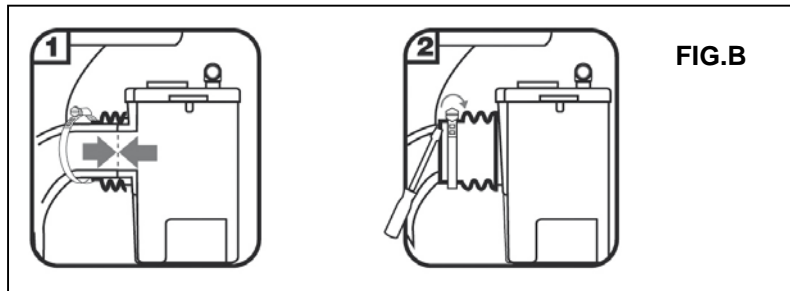
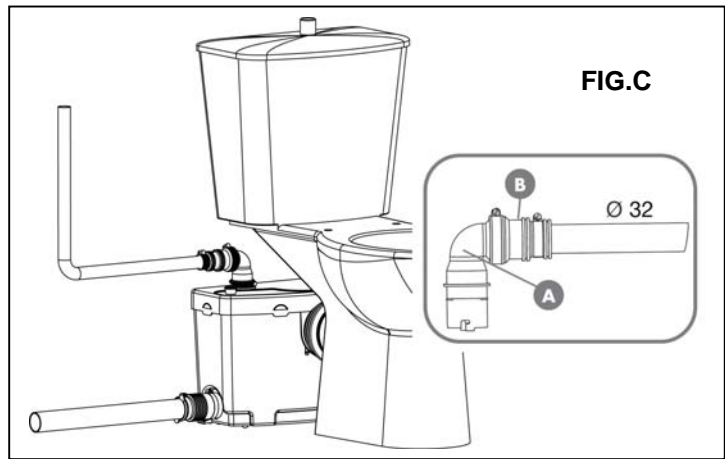
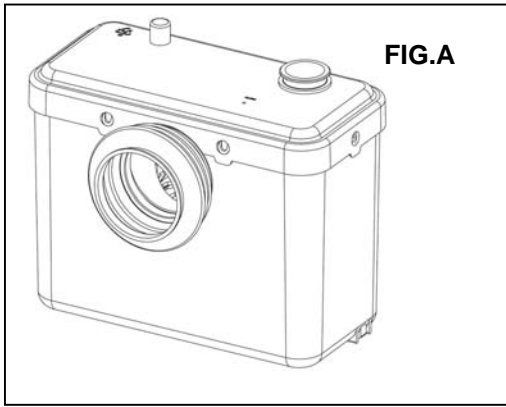
- Disconnect the appliance from the power supply mains.
- Turn off the stop valve of the flush tank. Remove as much water as possible from the tank.
- Drain the stand pipe.
- Disconnect any connected supply and discharge pipes.
- Remove the two retaining screws on the bottom.
- Extract the appliance through the inspection/maintenance hatch.
- To close the cover of the system again we recommend applying some liquid soap or detergent on the rubber gasket.

Turn the electric power back on only after having concluded reassembly of the system.

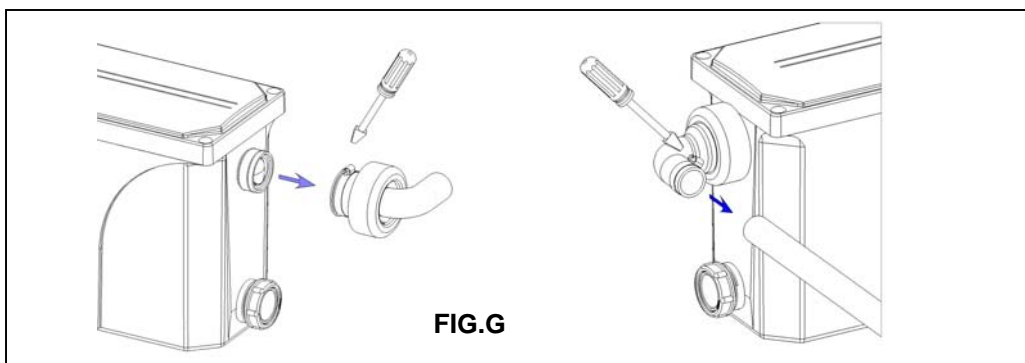
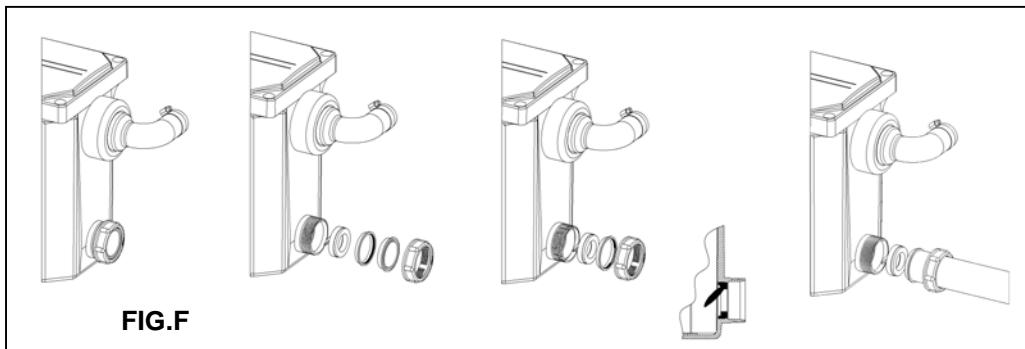
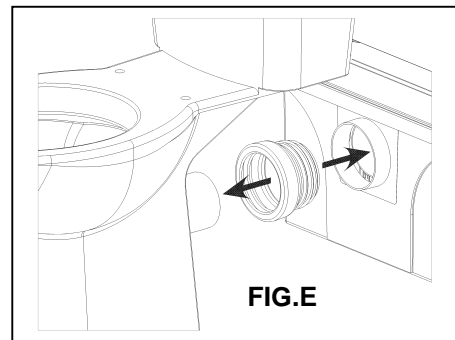
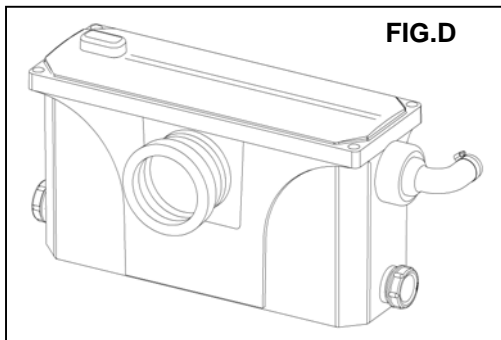
6. TROUBLESHOOTING

FAULTS	CHECKS (possible causes)	REMEDIES
1. The system is blocked.	A. A foreign body is blocking the blade. B. The system has been operating too long / the thermal protection has tripped.	A. Contact an authorised customer service centre.
2. The system always starts by itself.	A. No seal in the flush tank or connected valves. B. The check valve is not closing with a seal.	A. Change the gasket of the flush tank and of the valves. B. Clean or change the check valve.
3. The motor is working, but the water is going down slowly.	A. The filter is clogged. B. The fan cover is clogged.	A. Dismantle the appliance, clean the filter. B. Clean the fan cover.
4. The motor is working uninterruptedly or pumping for a long time.	A. Delivery too high or too wide or presence of too many bends in the pipes with consequent loss of pressure. B. Pump bottom clogged.	A. Check the system. Otherwise contact an authorised customer service centre.
5. The motor does not start.	A. The system is not connected to the power mains. B. Faulty supply cable. C. Damage to the motor.	A. Connect the system to the power mains. B. Contact an authorised customer service centre. C. Contact an authorised customer service centre.
6. Loud noises during operation.	A. Foreign bodies in the system.	A. Disconnect the appliance from the power supply, disassemble it, open it and remove the foreign bodies.
7. The motor is only making a buzzing noise and is not working.	A. Faulty capacitor or damage to the motor.	A. Contact an authorised customer service centre.
8. Water is getting into the shower tray.	A. The shower tray has been installed too low with respect to the lifting station.	A. Check installation.

FEKALIFT 100-A



FEKALIFT 200-A



FEKALIFT 300-A

