EVAC 910 WALL TOILET

TECHNICAL INFORMATION
**VACUUM TOILET**

6543418  EVAC 910, WALL MODEL, PRESTIGE SILENT, WHITE  
6543419  EVAC 910, WALL MODEL, MOSAIK, WHITE  
6547226  EVAC 910, WALL MODEL, PRESTIGE SOFT CLOSING, WHITE

* Prestige seat and cover fulfill ANSI Z124.5 - 1997 [Plastic Toilet (Water closet) Seats] requirements.  
** See available colours in document 002003-7

**Materials**  
Bowl: White vitreous china**  
Seat; *Prestige and Prestige Soft Closing: UF-S**, Mosaik: PP**  
Cover; *Prestige and Prestige Soft Closing: UF-S**, Mosaik: PP**  
Pneumatic push button: White plastic, ABS  
Discharge valve; plastic parts: PP, rubber parts: NR

**Operating data**  
Water pressure: 3 - 10 bar  
Operating vacuum: -0.3 ... - 0.6 bar  
Water consumption: ~1.2 ±0.15 litres/flush (water pressure: 4 bar, vacuum: -0.4 bar)  
Air consumption: ~60 ±10 litres/flush (normal atmospheric air)

**Connections**  
Water supply: 1/2” MPT, flexible hose  
Discharge: Discharge connection Ø50, connection sleeve includes two hose clamps to O.D. 48 - 52mm pipes

**Shipping data**  
P/N 6543418 Evac 910, wall model, Prestige Silent and  
P/N 6547226 Evac 910, wall model, Prestige Soft Closing:  
Net weight: 20.8 kg  
Shipping weight: 23.1 kg  
Shipping volume: 0.168m³  
P/N 6543419 Evac 910, wall model, Mosaik:  
Net weight: 17.7 kg  
Shipping weight: 19.7 kg  
Shipping volume: 0.168m³
**VACUUM TOILET**

6541458  PNEUMATIC PUSH BUTTON, WHITE

---

**Materials**
- Cover: ABS, white
- Button: PBT, white
- Bottom plate: POM, natural

**Connections**
- Hose nipple Ø4

**Shipping data**
- Net weight: 0.2kg
## VACUUM TOILET
STANDARD COLOURS, EVAC 910, WALL MODELS AND FLOOR MODELS

### COLOURS FOR WALL MODEL TOILETS

<table>
<thead>
<tr>
<th>Product no.</th>
<th>Toilet name</th>
<th>Toilet bowl</th>
<th>Seat and cover</th>
<th>Additional colours*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Standard colour code</td>
<td>Standard colour code</td>
<td>min. 250 pcs / order</td>
</tr>
<tr>
<td>6543418</td>
<td>Wall model, Prestige Silent</td>
<td>01 white</td>
<td>01 white</td>
<td></td>
</tr>
<tr>
<td>6543419</td>
<td>Wall model, Mosaic</td>
<td>01 white</td>
<td>01 white</td>
<td></td>
</tr>
<tr>
<td>6543420</td>
<td>Wall model USPH, Prestige Silent</td>
<td>01 white</td>
<td>01 white</td>
<td></td>
</tr>
<tr>
<td>6543421</td>
<td>Wall model USPH, Mosaic</td>
<td>01 white</td>
<td>01 white</td>
<td></td>
</tr>
<tr>
<td>6544766</td>
<td>Wall model USPH, Open front</td>
<td>01 white</td>
<td>01 white</td>
<td></td>
</tr>
<tr>
<td>6544791</td>
<td>Wall model USPH, Prestige Silent, autoflush</td>
<td>01 white</td>
<td>01 white</td>
<td></td>
</tr>
<tr>
<td>6544792</td>
<td>Wall model USPH, Prestige Silent, autoflush</td>
<td>10 Light grey</td>
<td>10 Light grey</td>
<td>min. 250 pcs / order</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30 Light green</td>
<td>30 Light green</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>68 Pergamon, light beige</td>
<td>68 Pergamon, light beige</td>
<td></td>
</tr>
<tr>
<td>6544793</td>
<td>Wall model, Prestige Silent</td>
<td>10 Light grey</td>
<td>10 Light grey</td>
<td>min. 250 pcs / order</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30 Light green</td>
<td>30 Light green</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>68 Pergamon, light beige</td>
<td>68 Pergamon, light beige</td>
<td></td>
</tr>
<tr>
<td>6544794</td>
<td>Wall model USPH, Prestige Silent</td>
<td>10 Light grey</td>
<td>10 Light grey</td>
<td>min. 250 pcs / order</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30 Light green</td>
<td>30 Light green</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>68 Pergamon, light beige</td>
<td>68 Pergamon, light beige</td>
<td></td>
</tr>
<tr>
<td>6545030</td>
<td>Wall model, B15, Prestige Silent</td>
<td>01 white</td>
<td>01 white</td>
<td></td>
</tr>
<tr>
<td>6545031</td>
<td>Wall model USPH, B15, Prestige Silent</td>
<td>01 white</td>
<td>01 white</td>
<td></td>
</tr>
<tr>
<td>6545818</td>
<td>Wall model USPH, Prestige Silent, autoflush</td>
<td>01 white</td>
<td>01 white</td>
<td></td>
</tr>
<tr>
<td>6546081</td>
<td>Wall model USPH, Prestige Silent, autoflush</td>
<td>10 Light grey</td>
<td>10 Light grey</td>
<td>min. 250 pcs / order</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30 Light green</td>
<td>30 Light green</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>68 Pergamon, light beige</td>
<td>68 Pergamon, light beige</td>
<td></td>
</tr>
<tr>
<td>6547226</td>
<td>Wall model, Prestige Soft Closing</td>
<td>01 white</td>
<td>01 white</td>
<td></td>
</tr>
<tr>
<td>6547227</td>
<td>Wall model USPH, Prestige Soft Closing</td>
<td>01 white</td>
<td>01 white</td>
<td></td>
</tr>
</tbody>
</table>

### COLOURS FOR FLOOR MODEL TOILETS

<table>
<thead>
<tr>
<th>Product no.</th>
<th>Toilet name</th>
<th>Toilet bowl</th>
<th>Seat and cover</th>
<th>Additional colours*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Standard colour code</td>
<td>Standard colour code</td>
<td>min. 250 pcs / order</td>
</tr>
<tr>
<td>6545825</td>
<td>Floor model, Silent</td>
<td>01 white</td>
<td>01 white</td>
<td></td>
</tr>
<tr>
<td>6545826</td>
<td>Floor model, Trevi</td>
<td>01 white</td>
<td>01 white</td>
<td></td>
</tr>
<tr>
<td>6545827</td>
<td>Floor model USPH, Silent</td>
<td>01 white</td>
<td>01 white</td>
<td></td>
</tr>
<tr>
<td>6545828</td>
<td>Floor model USPH, Trevi</td>
<td>01 white</td>
<td>01 white</td>
<td></td>
</tr>
<tr>
<td>6545829</td>
<td>Floor model USPH, Open front</td>
<td>01 white</td>
<td>01 white</td>
<td></td>
</tr>
</tbody>
</table>
VACUUM TOILET
STANDARD COLOURS, EVAC 910, WALL MODELS AND FLOOR MODELS

Bowl, seat and cover are available in white and in standard colours. Standard colours are shown in the standard colour palette.

! NOTE: Evac 910 vacuum toilets with the Mosaik, Trevi or Open front seats and covers are available only in white colour.

When you order a toilet in standard colour you must give the toilet’s part number, the name and the standard colour code. Example: 6544794 Wall model USPH, Prestige Silent, 30 Light green.

* You can order the Prestige and the Silent seats and covers in additional colours only in large series. When you order seat and cover in additional colours you must give an international colour code like the Muncell or RAL.

Standard colour palette

01 White
10 Light grey
30 Light green
68 Pergamon, light beige
VACUUM TOILET

6543418  EVAC 910, WALL MODEL, PRESTIGE SILENT
6543419  EVAC 910, WALL MODEL, MOSAIK
6547226  EVAC 910, WALL MODEL, PRESTIGE SOFT CLOSING

NOTE: Recommended place for the button. If place is changed, consult EVAC.

Vacuum breaker installation, see doc. 002017-3

Pneumatic push button
Seat and cover: Prestige or Mosaik or Prestige Soft Closing

Flexible water hose
Discharge pipe alignment tolerance to be ±3.0 mm

Shut-off valve 1/2" MPT

U-beam (Not included in EVAC supply)
Fasten the beam to a solid structure.

P/N 5433572    Straight connection hose
P/N 6544769    Rubber elbow 90°, optional connection

Overflow point

NOTE: Overflow point is inside the toilet bowl

* The vacuum breaker air inlet must be located at a minimum of 150mm (6") above the overflow point of the toilet.
VACUUM TOILET

6543418  EVAC 910, WALL MODEL, PRESTIGE SILENT
6543419  EVAC 910, WALL MODEL, MOSAIK
6547226  EVAC 910, WALL MODEL, PRESTIGE SOFT CLOSING

Dimensions of toilet service opening through the wall

Toilet supporting beams for wall models

Cross section A - A

Installation kit 6540972 consists of:

- Plastic nut M12 2 pcs
- Guiding nut 2 pcs
- Edge strip 1 pc
- Mounting instruction 1 pc
- Straight connection hose 1 pc
- Hose clamp 2 pcs

Bolt M12 to be welded (not EVAC supply)

Length according to the space available

U-beam 50x30x2 (not EVAC supply)

Edge strip

Toilet bowl

Total length of bolt = T + 65 ± 2

! NOTE: Thread on the bolt must be full length.
• Connect the water connection hose (A) to the water valve.
• Install the back plate assembly on the wall using the bowl fastening bolts (B) (M12, not included) and the guiding nuts (C) (M12). The guiding nuts are necessary.
• Connect the hose (D) from the flushing ring to the water valve. **Do not use any kind of grease during installation!** Secure with hose clamps. Tighten the hose clamps with pliers.

**NOTE:** Install the hose (D) from the flushing ring in the toilet bowl to the right side of the discharge valve and below all other hoses.

• Lift bowl onto the fastening bolts and tighten the securing nuts (E). Tightening torque is 15-20 Nm.

**NOTE:** Check hoses through the toilet service opening in the wall that the hoses run smoothly. The hoses shall not have any kinks.

• Fit the edge strip as shown in figure 1. Place the joint of the strip to the bottom side of the bowl.
• Install the seat and the cover. See the installation of the Prestige Soft Closing (document 002503-2).
• Connect the discharge connection. Secure with the hose clamps.
• Connect the shut-off valve/vacuum breaker assembly to the water supply. The shut-off valve must be installed to the water supply piping’s side to ensure the correct flow direction in the vacuum breaker. Note the vacuum breaker must be installed vertically as shown.
• Connect the water connection hose (A) to the shut-off valve/vacuum breaker assembly.
• Install the pneumatic push button (See document 002002-3).
Installation

1. Install the parts of the installation kit. Note the installation order.

2. Push the hinges into the hole of the seat and the cover.

! NOTE: Do not open the seat (with the hinges inserted) hinges before assembly. The opening angle must not exceed 110°.
3. Install the seat and the cover with the hinges on the installation screws on the bowl.

4. Tighten the retaining screws by the hex wrench. (The installation kit includes two hex wrenches.)

! NOTE: Do not use too much force.

Do not use force when closing, this may cause irreparable damage to the device.

Maintenance

The seat is easy to clean, with just a few simple directions for you to observe.

• Use mild soap solution or biological cleaners.
• Rinse the seat and cover and the hinges with water and dry with a soft cloth.
• Do not use abrasive scouring powders for the seat and cove and the hinges.
• Be careful with chemicals and cosmetics. Some of them may damage the seat at last.
• When you use abrasive, corrosive or chlorine based cleaners for the bowl, avoid contact with the seat and cover and the hinges. Therefore, when you clean the bowl and flush cleaner away, make sure that the seat and the cover are in an upright position.
Installing the push button on the wall, floor models with the optional push button kit.
(Hose and protecting pipe on the surface of the wall)

1. Thread the hose from the control mechanism through the protection pipe (A).
2. Install the protection pipe (A) on the wall using screws and clamps (B).
3. Cut off the film of the bushing for the plastic hose in the bottom side of the push buttons cover.
4. Connect plastic hose from the control mechanism to the bellows (C). Snap the plastic hose on the clip behind the bottom plate.
5. Install the push button body (D) to the wall using screws (not included).
6. Snap the cover of the push button (E) its place.

Control mechanism

Make sure, that the plastic hose does not get loose from the control mechanism.

1. Drill Ø6 mm hole for the hose (A).
2. Connect the plastic hose (A) from the control mechanism to the bellows (B). Warm the end of the hose if needed to help installation.
3. Install the body (C) of push button on the wall using screws (D) (not included).
4. Snap the cover (E) of the push button its place.

! NOTE: Secure, that the hose (A) is not flattened after installation. Air impulse must always flow free.
**VACUUM TOILET**

6541458  PNEUMATIC PUSH BUTTON, EVAC 910, WALL MODELS
6541057  OPTIONAL PNEUMATIC PUSH BUTTON KIT, EVAC 910, FLOOR MODELS

---

**Recommended place for the button**

*NOTE:* Make sure, that cover does not hit the push button when opened. (*In Aniara/Mosaik/Trevi models dimension is 100mm smaller due to the flexible cover.*) If the place is changed, consult EVAC.

---

**Floor models**

Install the protecting pipe under the discharge pipe.
VACUUM TOILET

6543418 EVAC 910, WALL MODEL, PRESTIGE SILENT
6543419 EVAC 910, WALL MODEL, MOSAIK
6547226 EVAC 910, WALL MODEL, PRESTIGE SOFT CLOSING
6543420 EVAC 910, WALL MODEL USPH, PRESTIGE SILENT
6543421 EVAC 910, WALL MODEL USPH, MOSAIK
6544766 EVAC 910, WALL MODEL USPH, OPEN FRONT
6547227 EVAC 910, WALL MODEL USPH, PRESTIGE SOFT CLOSING

Start-up
- Clean the bottom of the toilet bowl.
- Check the mini-check valve and the discharge valve are clean and working correctly.
- Check the water supply hose and the filter of the water valve are not blocked up.
- Check sufficient vacuum (-0.3 bar) is available.
- Open the water supply valve in the water supply piping.
- Press the toilet push button. Pressing the button starts the flushing sequence. The discharge valve opens and the contents of the bowl are extracted by vacuum. At the same time the bowl is rinsed by water.
- When the discharge valve has been closed water level is restored in the bowl by the closing time delay of the water valve.

Monitoring the vacuum toilet in the normal operation
- Check the water valve provides the rinse water to the bowl at the same time as the discharge valve extracts the bowl contents when the push button is pressed.
- Check the push button returns to it’s non-activated state.
- Check after the discharge valve closes, the water valve continues to provide water to the bowl. If the water valve time delay is correctly adjusted, there should be a pool of water at the bottom of the bowl.
- Check there are no water or air leaks.

! NOTE: Water consumption is dependent on the water supply pressure and the vacuum level.

Preparation for a toilet not to be used for a long period
- Close the water supply valve.
- Run a flush cycle by pressing the push button.
- Close the toilet seat cover.
**VACUUM TOILET**

6543418  EVAC 910, WALL MODEL, PRESTIGE SILENT, WHITE  
6543419  EVAC 910, WALL MODEL, MOSAIK, WHITE  
6547226  EVAC 910, WALL MODEL, PRESTIGE SOFT CLOSING  
6543420  EVAC 910, WALL MODEL USPH, PRESTIGE SILENT, WHITE  
6543421  EVAC 910, WALL MODEL USPH, MOSAIK, WHITE  
6544766  EVAC 910, WALL MODEL USPH, OPEN FRONT, WHITE  
6547227  EVAC 910, WALL MODEL USPH, PRESTIGE SOFT CLOSING

---

**Operation**

The toilet is flushed by pressing the push button. The pneumatic push button is connected to the control mechanism with a control hose, which transports the air pulse from the push button to the control mechanism. The air pulse starts the flushing sequence and the control mechanism connects vacuum to the control connections of the water valve and the discharge valve. The water valve opens and lets rinsing water flow into the bowl through the flushing ring. After a short delay vacuum acts in discharge valve housing and forces the rubber diaphragm in discharge valve to open. Contents of the bowl is drained to the vacuum sewer by a pressure difference between the bowl and vacuum sewer. The flushing cycle in the control mechanism starts the closing cycle. Vacuum enters to the relief valve. The relief valve opens the port between atmospheric air and the discharge valve. Atmospheric air enters to the discharge valve which closes immediately. After a short delay the atmospheric air pulse reaches to the water valve and the relief valve. The water valve closes and lets a certain level of water at the bottom in the bowl. After the flushing cycle has stopped the push button and the system will be ready for the next flush.
Description of the flushing sequence

In the standby position FIG.1

The control valve (1) is closed. Vacuum in the chambers (2) and (3) is equalized by the jets (4) and (5). Force of the spring (6) holds the mechanism in the non-activated position.

In the position immediately after the push button has been pressed FIG.2

Air pressure applied from the flush button to the chamber (7) has lifted the lever (8) and opened the control valve (1). Atmospheric air has entered the chamber (3) through the filter (9) and the valve (1). The force from the pressure difference between (2) and (3) has moved the shaft (10) to the left and the following sequence of events has occurred:

The inlet valve (11) has closed. The vacuum valve (12) has opened. Vacuum is distributed via the check valve (13) to the discharge valve (18) and the water valve (19) which will both open. The chamber (14) is also subjected to vacuum through the check valve (21).

This vacuum will pull the lever (8) and the close valve (11) and the timer function will start. The chamber (3) will be evacuated through the jet (5) and the pressure difference (2-3) equalizes. At the certain level, the counterforce from the spring (6) will outweigh and the cycle will go in the opposite direction:

The vacuum valve (12) will close. The air inlet valve (11) will open and vacuum will enter the relief valve (22), the atmospheric air enters the water valve, the discharge valve and the chamber (14). The discharge valve (18) will close and somewhat later (because of the jet (17)), the water valve (19) closes when a suitable water level has been reached at the bottom of the bowl. The relief valve closes.

Returning to the standby position FIG.3

The whole system goes to the standby position ready for another VT-flush.

! NOTE: The diaphragm (16) has the same effective area as the air inlet valve (11) to balance the vacuum forces. FIG.3

! NOTE: Check the valve (13) ensures that connected the valves in the activated position are unaffected by changes in the vacuum supply level.

! NOTE: If vacuum is too low or absent the function is delayed. The control valve (1) stays open until the chamber (14) is subject to vacuum.
**VACUUM TOILET**

5775500  CONTROL MECHANISM, EVAC 910 WALL MODELS AND FLOOR MODELS

---

**Operation**

The functioning of the vacuum toilet is entirely controlled by the control mechanism. The operation of the control mechanism is based on vacuum in the sewage piping system.

Description of flushing sequence see document 002030-2.

Jet 1 (document 002030-2 pos. 5) controls the discharge valve opening time.

Jet 2 (document 002030-2 pos. 4) counters the effect of quick changes in the vacuum supply.

Jet 3 (document 002030-2 pos. 15) delays the vacuum changes in the chamber (14) (see document 002030-2). This prevents a new flushing procedure to start before the previous procedure has stopped.

**Maintenance**

Check that the air filters (4) and (5) are not blocked.

Check hoses and pipe connections for leaks.

**Toilet discharge time**

<table>
<thead>
<tr>
<th>Jet 1</th>
<th>Short discharge period</th>
<th>Red jet</th>
<th>1.5 sec.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Normal discharge period</td>
<td>Blue jet</td>
<td>2.0 sec.</td>
</tr>
<tr>
<td></td>
<td>Longer discharge period</td>
<td>White jet</td>
<td>2.5 sec.</td>
</tr>
<tr>
<td></td>
<td>Less restriction shortens the time</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Water valve opening time**

<table>
<thead>
<tr>
<th>Jet 6</th>
<th>Normal bowl water level</th>
<th>White jet</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Low bowl water level</td>
<td>Blue jet</td>
</tr>
</tbody>
</table>
**Operation**

Closed condition:
The control mechanism shuts off connection between the vacuum piping and the discharge valve housing. As the valve housing is under atmospheric pressure the spring-loaded closing mechanism closes the rubber diaphragm and isolates the bowl from the vacuum piping.

Open condition:
As the control valve opens the discharge valve housing is subjected to vacuum, thus forcing the closing mechanism to open. This in turn allows the rubber diaphragm to open, and connects the bowl to the vacuum pipe line.

Closing sequence:
The vacuum pulse enters to the relief valve. The relief valve opens the port between atmospheric air and the discharge valve. Atmospheric air enters to the discharge valve which closes immediately. After a short delay the atmospheric air pulse reaches to the water valve and the relief valve. The water valve closes and lets the certain level of water at the bottom in the bowl.

**Maintenance**

See document 002034-6 for scheduled maintenance.
VACUUM TOILET
EVAC 910, WALL MODELS, FLOOR MODELS AND STAINLESS STEEL MODELS

Cleaning instruction for the seat

• The seat is easy to clean, with just a few simple directions for you to observe.
• Use a mild soap solution or biological cleaners.
• Seat and hinges should not be left damp, but be dried with a soft cloth.
• When using abrasive, corrosive or chlorine based cleaners for the bowl, avoid contact with the seat and hinges. Therefore, when cleaning the bowl, make sure that seat and cover are in an upright position until all the cleaner has been flushed away.

Scheduled maintenance program
Maintenance program is based on 20 toilet flushes per day and 20 years operation.

Every year:
• Change flap of Mini-check valve in every toilet.
• Check operation, push button, seat and cover, rinse pattern, discharge pattern.
• Check possible water and vacuum leakage.
• Clean Filter (not in USPH models) in water supply.

Every 5 years:
• Change Flap of mini-check valve in every toilet.
• Open and clean Water valve filter 5774150.
• Clean Control mechanism air filter 5778600.
• Check operation, push button, seat and cover, rinse pattern, discharge pattern.
• Check possible water and vacuum leakage.
• Check Flushing ring 6541025 (floor models), 6540968 (wall models) or 5433471 (Stainless steel models) and flushing operation.

Every 10 years:
• Change Flap of mini-check valve in every toilet.
• Change Discharge valve rubbers: Rubber sleeve 6542990 (2pcs), Rubber diaphragm 6542989 and Diaphragm 6543134 in relief valve.
• Change Water valve diaphragm 5774400.
• Open and clean Water valve filter 5774150.
• Clean Control mechanism air filter 5778600.
• Check operation, push button, seat and cover, rinse pattern, discharge pattern.
• Check possible water and vacuum leakage.
• Check Flushing ring 6541025 (floor models), 6540968 (wall models) or 5433471 (Stainless steel models) and flushing operation.

! NOTE: Use only genuine Evac spare parts.
# VACUUM TOILET
## EVAC 910, WALL MODELS

<table>
<thead>
<tr>
<th>Trouble</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
</table>
| Toilet is discharging continuously (discharge valve open) | • Foreign object in bowl or in discharge valve  
• Blocked air relief tubing  
• Quick relief valve malfunction | • Shut off the problematic branch line valve  
• Remove foreign object  
• Change discharge valve  
• Check and if necessary change control mechanism  
• Check relief valve operation |
| Bowl does not become empty when flushed | • Discharge valve blocked  
• Leak in discharge valve housing  
• Discharge pipe blocked  
• Rubber sleeves leaking | • Clear stoppage, if any, in discharge valve  
• Sharp tools may damage rubber  
• Check that rubber sleeves are undamaged and correctly fitted  
• Check relief valve operation |
| No water or too little rinsing water | • Water shut-off valve closed  
• No water pressure  
• Filter full or dirt in water valve  
• Flush ring loose  
• Flush ring clogged  
• Filter blocked up in water supply | • Open valve  
• Provide water pressure  
• Clean filter  
• Connect flushing ring  
• Clean flushing ring  
• Clean filter |
| Toilet is overflowing | • Water valve jammed in open position  
• Bowl clogged or discharge valve not operating  
• Misuse (buckets of water thrown in the bowl)  
• Too low vacuum (less than 30%) to flush | • Close water shut-off valve  
• Clean / change water valve nozzles, springs, rubbers  
• Discharge bowl, valve and piping with normally flushing |
| Toilet does not flush. | • No vacuum or low vacuum (less than 30kPa)  
• Clogged mini-check valve  
• No impulse from push button  
• Jammed control mechanism  
• Jammed quick relief valve | • Check vacuum level, remove blockage in piping  
• Clean / change mini-check valve  
• Check hoses and membrane of push button  
• Change control mechanism  
• Check air filter condition. It should be place.  
• Check relief valve operation |

![Diagram of vacuum toilet components](Image)
VACUUM TOILET
6543002 DISCHARGE VALVE, EVAC 910, WALL MODELS AND FLOOR MODELS

Removal of the discharge valve (wall models)

From the cabin side:

1. Remove the bowl.
2. Disconnect the rubber hose A from the water valve or from the connecting nipple (only in USPH models).
3. Loose (only in USPH models) water valve from the component plate.
4. Disconnect the hose C with the elbow from the relief valve.
5. Unscrew two screws**.

From the service space side:

1. Disconnect the water supply hose from the water valve and the discharge pipe from the backplate.
2. Unscrew two screws* (see fig.2).
3. Disconnect the rubber hose A from the water valve or from the hose nipple (only in USPH models).
4. Loose (only in USPH models) water valve from the component plate.
5. Disconnect the hose from the relief valve.
6. Unscrew two screws** (see fig.1).

Removal of the discharge valve (floor models)

1. Close the water supply valve.
2. Disconnect the water hose from the water valve.
3. Disconnect the pipes of the vacuum breaker from the connection nipples.
4. Disconnect the toilet from the rubber bend.
5. Remove the toilet if needed.
6. Remove the screws***
7. Disconnect the rubber hose A from the water valve or the connecting nipple (only in the USPH models).
8. Remove the back plate.
VACUUM TOILET
6543002 DISCHARGE VALVE, EVAC 910, WALL MODELS AND FLOOR MODELS

Dismantling of the discharge valve

Fig. 3

1. Remove the rubber sleeves, the covers and the springs. (see fig.3).
2. Press lightly the closing mechanisms and remove the rubber sleeve with the brace (see fig.4).
9. Loose (only in the USPH models) water valve from the component plate.
10. Disconnect the hose from the relief valve.
11. Unscrew two screws*.

Fig. 4

Rubber hose A
Connecting nipple (only in USPH models)

Hose C
Water valve
Component plate

Discharge valve

Elbow
Relief

Rubber sleeve and brace

Press

Hose B (only in USPH models)

Screws*

Connecting nipple (only in USPH models)

Rubber hose A

Press

Closing mechanism

Hose B (only in USPH models)

Screws*

Connecting nipple (only in USPH models)

Rubber sleeve

Cover

Spring
VACUUM TOILET

6543418  EVAC 910, WALL MODEL, PRESTIGE SILENT, WHITE
6543419  EVAC 910, WALL MODEL, MOSAIK, WHITE
6547226  EVAC 910, WALL MODEL, PRESTIGE SOFT CLOSING

P/N 6543418 includes Prestige seat and cover (P/N 6546818)
P/N 6543419 includes Mosaik seat and cover (P/N 6540973)
P/N 6547226 includes Prestige Soft Closing seat and cover (P/N 6546819)

I NOTE: *When ordering:
Toilet bowl - state type and standard colour
Seat and cover - state type and standard colour

© Copyright Evac Oy. All rights reserved.
EVAC reserves the right to make alterations to this specification without prior notice.
VACUUM TOILET

6542981 BACK PLATE ASSEMBLY, EVAC 910, WALL MODELS
6542982 BACK PLATE ASSEMBLY, EVAC 910, WALL MODELS USPH

EVAC reserves the right to make alterations to this specification without prior notice.

© Copyright Evac Oy. All rights reserved.
6545041 RECOMMENDED SPARE PART KIT:
1 x 6542989 Rubber diaphragm
2 x 6542990 Rubber sleeve
1 x 6543134 Membrane

EVAC reserves the right to make alterations to this specification without prior notice.
© Copyright Evac Oy. All rights reserved.
6543030 RECOMMENDED SPARE PART KIT:
1 x 3790009 V-ring
1 x 5774150 Filter
1 x 5774400 Diaphragm
1 x 5774701 Valve washer + Jet

EVAC reserves the right to make alterations to this specification without prior notice.
© Copyright Evac Oy. All rights reserved.
VACUUM TOILET

5775500 CONTROL MECHANISM
5881000 SPARE PART KIT FOR CONTROL MECHANISM (EVAC 90 AND 900 MODEL TOILETS)
6546688 SPARE PART KIT FOR CONTROL MECHANISM (EVAC 910 MODEL TOILETS, TOILET WITH AUTOFLUSH UNIT, STAINLESS STEEL TOILET, SQUATTING TOILET)

P/N 5775500 Control mechanism

*5778001 Jet carrier complete (controls flushing period)

Alternative Jets:
*5778000 Jet carrier complete
*5778002 Jet carrier complete
*5778004 Jet carrier complete

5778600 Air filter

5778001 Jet carrier complete (not alternative Jets)

5778000 Jet carrier complete (not alternative Jets)

*Jet carrier identification:

<table>
<thead>
<tr>
<th>P/N</th>
<th>Colour</th>
<th>Size</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>5778004</td>
<td>Yellow</td>
<td>0.20</td>
<td>Extra long flushing period</td>
</tr>
<tr>
<td>5778000</td>
<td>White</td>
<td>0.30</td>
<td>Long flushing period</td>
</tr>
<tr>
<td>5778001</td>
<td>Blue</td>
<td>0.40</td>
<td>Normal flushing period</td>
</tr>
<tr>
<td>5778002</td>
<td>Red</td>
<td>0.50</td>
<td>Short flushing period</td>
</tr>
</tbody>
</table>

I NOTE: See also the operation and maintenance documents:
Doc. 3:111D, Control mechanism (Evac 90 and 900 model toilets)
Doc. 002032-2, Control mechanism (Evac 910 model toilets)
Doc. 002474-2, Control mechanism (Evac 910 Stainless steel toilets)
Doc. 3:01103C, Control mechanism (Evac 910, Squatting toilet)

P/N 5881000 Spare part kit (Evac 90 and 900 model toilets)

<table>
<thead>
<tr>
<th>P/N</th>
<th>Description</th>
<th>Pcs</th>
</tr>
</thead>
<tbody>
<tr>
<td>5778600</td>
<td>Air filter</td>
<td>1</td>
</tr>
<tr>
<td>5778001</td>
<td>Jet carrier complete</td>
<td>2</td>
</tr>
<tr>
<td>5778000</td>
<td>Jet carrier complete</td>
<td>1</td>
</tr>
<tr>
<td>5778700</td>
<td>Filter</td>
<td>1</td>
</tr>
<tr>
<td>5959902</td>
<td>Mini-check valve</td>
<td>1</td>
</tr>
</tbody>
</table>

P/N 6546688 Spare part kit
(Evac 910 model toilets, toilet with Autoflush unit, Stainless steel toilet, Squatting toilet)

<table>
<thead>
<tr>
<th>P/N</th>
<th>Description</th>
<th>Pcs</th>
</tr>
</thead>
<tbody>
<tr>
<td>5778600</td>
<td>Air filter</td>
<td>1</td>
</tr>
<tr>
<td>5778001</td>
<td>Jet carrier complete</td>
<td>2</td>
</tr>
<tr>
<td>5778000</td>
<td>Jet carrier complete</td>
<td>1</td>
</tr>
<tr>
<td>5778700</td>
<td>Filter</td>
<td>1</td>
</tr>
</tbody>
</table>

EVAC reserves the right to make alterations to this specification without prior notice.
© Copyright Evac Oy. All rights reserved.
VACUUM TOILET
6546818  SEAT AND COVER, PRESTIGE

6549843
Buffers (x6) for seat and cover

6547810
Hinge hub

6548709
HINGE KIT

6547810
Hinge hub

Cover
Seat
VACUUM TOILET
6540973  SEAT AND COVER, MOSAIK, EVAC 900 AND EVAC 910, WALL MODEL

! NOTE; When ordering: Seat and cover - state type and colour.

! NOTE: "Seat and cover" sold as a single item.

2 x Hinge body
6542726 Hinge kit
2 x Nut

EVAC reserves the right to make alterations to this specification without prior notice.
© Copyright Evac Oy. All rights reserved.
SPARE PARTS

Date: 13 Sec 2010  Doc. 002511-1

VACUUM TOILET
6546819  SEAT AND COVER, PRESTIGE SOFT CLOSING

6547814
Buffer for seat (x4)

6547815
Buffer for cover (x2)

6547813
Hinge, right

6547812
Hinge, left

6547811
HINGE FIXING KIT

Cover

Seat
VACUUM TOILET

6541772 WATER SUPPLY KIT, USPH, FOR EVAC 900 AND EVAC 910 TOILETS, WALL MODELS
5980802 WATER SUPPLY KIT, USPH, FOR EVAC 90, 900, AND EVAC 910 TOILETS, FLOOR MODELS

P/N 6541772 Water supply kit, USPH

P/N 5980802 Water supply kit, USPH
VACUUM TOILET
6541458  PNEUMATIC PUSH BUTTON, EVAC 900 AND EVAC 910, WALL MODELS
6541057  OPTIONAL PNEUMATIC PUSH BUTTON KIT, EVAC 900 AND EVAC 910, FLOOR MODELS

P/N 6541458  Pneumatic push button

P/N 6540917 is replaced by P/N 6541458

P/N 6540917

P/N 6541057  Optional pneumatic push button kit

P/N 6541458

© Copyright Evac Oy. All rights reserved.