

# **FLEXO WASH**

Leading Cleaning Technology



## **Operation manual**

**PK 250-350 WR FrontLoad**

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**Denmark**  
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**Liquids and filters:**  
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### Installation Completion Form

Company name: \_\_\_\_\_  
 Installation address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Tel.: \_\_\_\_\_  
 E-mail: \_\_\_\_\_  
 Contact 1: \_\_\_\_\_ Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_  
 Contact 2: \_\_\_\_\_ Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_  
 Machine: \_\_\_\_\_ No.: \_\_\_\_\_ Year: \_\_\_\_\_  
 Auxiliary equipment: \_\_\_\_\_  
 \_\_\_\_\_

### Installation Data

Connections:  
 Electrical power: \_\_\_\_\_ V  
 Air inlet: \_\_\_\_\_ Bar (During operation)  
 Water inlet: \_\_\_\_\_ °C \_\_\_\_\_ L/Min (GPM)  
 Exhaust/Ventilation: \_\_\_\_\_  
 Machine Level: \_\_\_\_\_ Lid function: \_\_\_\_\_ Drainage: \_\_\_\_\_

Control system:  
 Wash 1 timer: \_\_\_\_\_ Liquid temp. tank 1: \_\_\_\_\_  
 Wash 2 timer: \_\_\_\_\_ Liquid temp. tank 2: \_\_\_\_\_  
 Wash 3 timer: \_\_\_\_\_ Slide speed: \_\_\_\_\_  
 Drain timer: \_\_\_\_\_ HP rinse pressure max.: \_\_\_\_\_  
 Rinse timer: \_\_\_\_\_ HP rinse pressure reduced: \_\_\_\_\_  
 HP rinse-no. of passes: \_\_\_\_\_ Liquid type tank 1: \_\_\_\_\_  
 Air dry-no. of passes: \_\_\_\_\_ Liquid type tank 2: \_\_\_\_\_  
 Rotation speed: \_\_\_\_\_  
 Installation date: \_\_\_\_\_  
 Technician: \_\_\_\_\_ Company: \_\_\_\_\_

Comments: \_\_\_\_\_  
 \_\_\_\_\_

Cleaning result: \_\_\_\_\_  
 \_\_\_\_\_

When installation is completed please fax the form to Flexo Wash, Denmark: +45 86 99 13 43 or e-mail to [service@flexowash.com](mailto:service@flexowash.com)

## 1. General Safety Precautions

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- Do not use flammable liquids in the machine (with flash point below 68°C)
- Do not install machine in an Ex or ATEX zoned area.
- The machine is design for washing parts from printing presses.
- The machine should be operated by trained personal and only used as specified.
- Do not operate machine without proper ventilation of machine or room.
- Do not touch valve actuators, gears or drives unless the machine is disconnected from power supply and compressed air.
- Do not dismantle or open pump, pipe or filter system before pressure is completely released.
- Check all safety devises on a regular basis and keep the machine well maintained.
- Use only genuine spare parts from Flexo Wash.
- Check piping, valves and filter housings for leakage. Any leakage of cleaning liquid should be avoided.
- Empty tank before moving the machine.
- Wear adequate protection of eyes, skin and respiration when there is a risk of exposure to liquid.
- Use only liquids and filters approved by Flexo Wash.
- Side plates must stay on the machine during running

### Safety Signs on Machine:

Safety sign on the machine must be placed easy visible on front or side of the machine.



Wear glasses and gloves when operating the machine – especially during change of filter, liquid handling, emptying, filling and cleaning of tanks.



Be careful when closing the lid.



**Disposal of chemical substances:**

Cleaning liquid and filters used in the machine must be treated as chemical waste. It must not be led to the sewer or normal waste disposal. Disposal of chemicals must follow the regulations. Contact local authorities about the disposal of chemical waste.

**Disconnection and disposal of machine:**

Empty tank, pump, filter and pipe system before taking the machine out of service and rinse with water. Drain off lubrication oil from high pressure pump and lubrication devise in air system (when applicable). The machine must be treated as industrial waste. It consists of electronics, wiring and various highly resistant metals and synthetic materials. The machine must be scrapped and disposed by authorised companies or persons, only. Contact local authorities about disposal of industrial machinery.

**Warranty:**

It is of great importance for our service and warranty obligations that Flexo Wash liquids and spare parts are used in the machines. The machines have been thoroughly tested with Flexo Wash liquid in order to ensure the guaranteed cleaning results and compatibility with parts. Our warranty does not cover parts which are broken due to incorrect installation or faulty repair by the purchaser, incorrect use, wear or lack of maintenance. See your spare parts manual for information about wear parts.

***Use of non-Flexo Wash liquid and spare parts can cause end of warranty for the unit.***

**Contact:****By Malfunction:**

Please call a Flexo Wash Technician.

**By Ordering:**

*Of e.g. spare parts, filters or liquids.*

Please contact us:

**Flexo Wash ApS  
Grenåvej 631 K  
8541 Skødstrup  
Denmark**

**Tel: 0045 86 99 36 31**

**Fax: 0045 86 99 13 43**

**E-mail for liquid and filters:**

[consumables@flexowash.com](mailto:consumables@flexowash.com)

**E-mail for spare parts and service questions:**

[service@flexowash.com](mailto:service@flexowash.com)



### 3. Installation Instructions

---

Place the unit in the designated installation area. Be sure that connections are available for the connection requirements.

#### **Level out and adjustment of lid**

Make sure the machine is levelled, front to back and side to side. Adjust the feet of the machine to change the level.



*Fig. 3.1 Machine feet*



*Fig. 3.2 Level tube*

#### **Air connection**

Connect the air supply to the air regulator and adjust the regulator until 7 BAR is seen on the gauge.



*Fig. 3.3 Air regulator*

### **Connect to electricity**

Connect the machine to electricity on the side of the machine and turn on the red main switch.



*Fig. 3.4 Main Switch*

### **Ventilation**

Connect machine to ventilation system at the 2x OD 250 mm opening in the top lid.



*Fig. 3.5 Automatic ventilation damper*

## 4. Operating Instructions

### Manual Filling of Cleaning Liquid (Tank 1 to the left and tank 2 to the right.)

Check that the drain-off stop valves on the tank are closed (see fig. 4.1). If the pump has been disconnected, make sure to fill a little liquid in the tank and check all related clam seals before filling the tank.

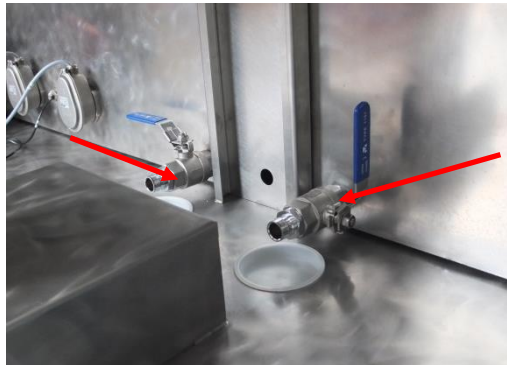


Fig. 4.1 Drain-off stop valves: Cleaning liquid tank

Place the filling pipe in the designated hole in the tank and pour cleaning liquid into the tank, see fig. 4.2B.

**Make sure to follow the instructions on the cleaning liquid label and read the liquid data sheet.** The liquid level can be read at the gauge in front of the tank, see fig. 4.2A.



Fig. 4.2 Liquid filling

**Always wear adequate protection of eyes, skin and respiration when there is a risk of exposure to liquid**

## Semiautomatic filling of tanks (optional)

If the machine is equipped with semiautomatic filling system, liquid can be filled from a reservoir automatically. Press the button "Auto Fill" for the tank you want to fill. The filling process will automatic stop when the tank is full.

The connection to the filling system is placed on the back of the machine.



Fig. 4.3

Fill wash tank

Fill After rinse tank



Fig. 4.4 Connection to filling system

## Emptying of tanks

The tank can be emptied through the drain valve in the bottom of the tank. If the machine is equipped with an emptying system this must be used.

## Emptying System (optional)

The emptying system can be used to empty wash or after rinse tank to drain or a reservoir.

To empty the liquid choose which tank to empty on the handle (H1) on the front side of the machine.

Before emptying the tank, please stir. This is to remove as much ink as possible.

**Always make sure the tank or reservoir the liquid is pump to are empty, before the empty pump is started!**

The emptying pump is started by turning the start/ stop valve (H2).

The start/ stop valve is placed next to the handle

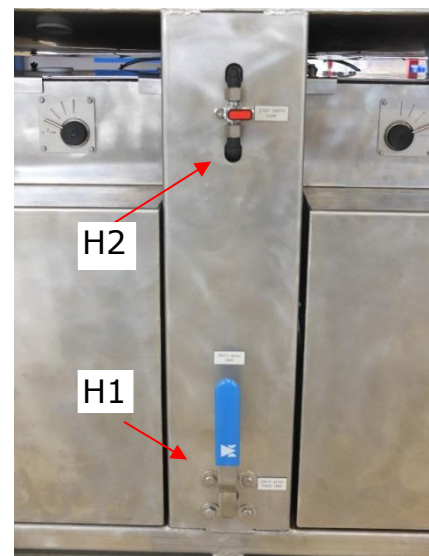


Fig. 4.5 emptying of tanks

## Placement of Parts

Before the parts are placed in the machine they must be emptied for excessive ink. In this way the cleaning liquid and filters will last longer and the wash will be both better and quicker.

Be careful not to break the nozzles when placing parts. Always remember to push the parts all the way back in the machine, make sure that the parts are clear of the lid, when closing.

Make sure that no parts protrudes through the grid, this might block the nozzle arm.



Fig. 4.6 Machine inside

## Slide Test

Before starting the machine it is important to make sure, that the movable nozzle arm can move freely. To test press the "Carriage motor ON" button in the "Manual Operation" menu, see section 7 for more details.



Fig. 4.7 Manual Operation menu

If the movable nozzle arm is blocked then the security bolts will break and the slide alarm will be displayed on the screen.



Fig. 4.8 Nylon security bolts

## Washing Process

Close the lid by turning the "Lid Open / Lid Closed" dial to "Lid Close" and activating the two lid control buttons simultaneously. The lid must be completely closed, otherwise the machine cannot start.

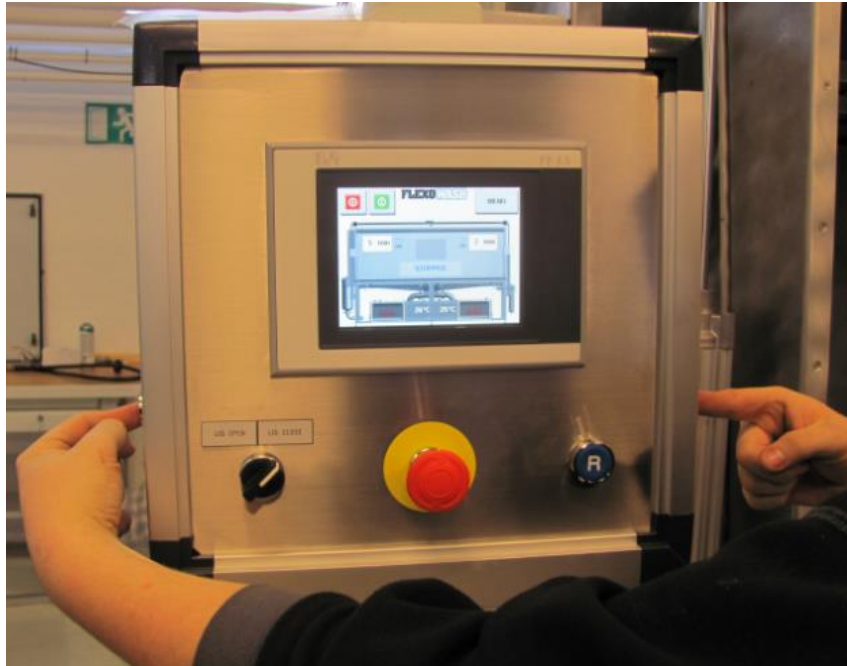


Fig. 4.9 Control panel with Lid buttons

Adjust wash time, heat, drain time, after rinse time if needed. Please also see the chapter regarding "Touch screen".

To start; press  on the screen.





Fig. 4.10 Control panel with Touch Screen

## The cleaning cycle:

- Wash: Cleaning liquid is sprayed on the parts. The wash time depends on how dirty the parts are.
- Drain: The cleaning liquid is drained back to the tank. The time should be set to approx. 3 min.
- After rinse: The parts are after rinsed. The time should be set to 2 min.

## Emergency stop

If necessary the machine can always be stopped by pressing  or by activating the red emergency button. The machine will restart the washing sequence after pressing .

Release the emergency stop by turning the button clockwise, when the emergency button has been released, press "R" to reset the control safety circuit.

## 5. Maintenance



Wear glasses and gloves when operating the machine – especially during filter change, liquid handling, emptying, filling and cleaning of tanks.

### Filter

The cleaning liquid filter is placed to the right on the machine and the after rinse filter to the left. If the filter gets too dirty the pressure will drop. This indicates that the filter needs to be changed. The filter must be cleaned approx. once a week.



Fig. 5.1: Rinse filter

Pressure release valve



Fig. 5.2: Wash filter

Before the filter is opened the pipe system needs to be emptied through the valve. Please be aware of the fact, that there might be liquid in the filters. Before opening the filter the pressure must be completely released (0 Bar on the manometer). When mounting the new filter, please be aware that the o-ring should be mounted correctly. Always wear gloves and eye protection when handling liquid and filters.



Fig. 5.3 filter lid



Fig. 5.4 Lift up filter and clean

### Tank flush- option

Before emptying the wash tank ink residues and small particles can be loosened from the tank bottom and heating elements by using the tank flush. (Not all machines)  
This is done by changing the settings of the valves on the wash or rinse pipe. The picture below shows the valve setting for rinse (V1 open and V2 closed). When using the tank flush V1 must be closed and V2 must be opened. This is done by turning both handles 90°.



*Fig. 5.8 Valve settings tank flush wash*



*Fig. 5.9 Valve settings tank flush rinse*

See chapter 6 Touch screen- tank clean option- for PLC settings

**Automatic dosing of antifoam (optional):**

Machines for use with water based liquid can be equipped with a dosing pump for anti-foam. The dosing pump is placed behind the control cabinet. The feeding hose for the anti-foam liquid must be placed in the anti-foam container.

The dosing pump is pre-set to fit the most requirements. If foam should occur adjust the settings on the dosing pump display.

See dosing pump manual for adjustment of settings.

Can only be operated during wash cycle.



*Fig. 5.10 Antifoam dosing pump*

## Cleaning of Nozzles

When the machine isn't running small amounts of ink can dry inside the moving nozzle arm. The dried ink will break off in flakes that can block the nozzles. If the nozzles are blocked they will need to either be replaced or if possible cleaned. This is done by submerging the nozzles in cleaning liquid overnight, and then thoroughly rinsing them with heated water. If necessary a hand held air blower can be used to loosen dried ink blocking the nozzles.

Be aware that there is a difference in nozzle types, and also placing them in the same angle as original. Do not clean them with a tool.



*Fig. 5.11 Moving nozzle arm*



*Fig. 5.12 Correct position, 45 degrees an-*



*Fig. 5.13 Wrong position*

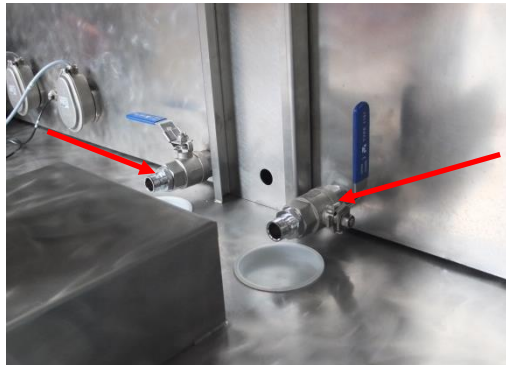
## Refilling of Tanks

There is a limited consumption of cleaning liquid and it will therefore have to be refilled. Check the fluid level via the plastic tube on the front of the tank and top up at a regular basis. The tanks should be cleaned approx. every three months depending on use.

## Cleaning Liquid Tank

When cleaning liquid becomes too polluted with ink the cleaning efficiency drops. Furthermore jets and nozzles will easier get blocked if liquid is too dirty. It is therefore necessary to exchange the cleaning liquid, drain off ink sludge and refill with fresh liquid. The lifetime of the liquid depends on amount of ink on the press parts.

It is important regularly to drain of accumulated ink sludge from the bottom of the tank. After approximately some hours standby (e.g. after a weekend) the sludge can be drained from the drain-off stop valve on the tank.



*Fig 5.14 Drain-off stop valve*

When the cleaning liquid is too polluted to clean the parts satisfactory the liquid will need to be changed. To change the liquid, start by emptying the tank (See section "4. Operating Instructions").

When the tank is emptied, remove the lid on the tank and clean the tank. Either use fresh water, but be aware of regulations on local sewer outlets, or use a plastic scraper to clean out accumulated ink sludge from the bottom of the tank.

The liquid can be collected in a container and left standing for approx. one week for sedimentation. The ink will settle at the bottom of the container and some of the cleaning liquid can be reused. Be aware that this is not possible with all cleaning liquids/ink types.

**Be sure to follow the same safety precaution as when handling new liquid.**

## Complete Cleaning of Tanks

Once a year or whenever required it is a good idea to clean the tanks. Dismount the tanks, remove the lid and rinse out all sludge. This will also improve lifetime of heating elements as sludge can create overheating and burn off of the heater.

### Filter regulator and water separator

The air must be both clean and dry. To prevent damage on the air components, the machine both contains a Filter and a water separator. It is important that the filter regularly is controlled and that the water container is emptied. The pressure should be 6-7 bar, and 5 bar when the machine is running.



Fig. 5.15 Filter regulator

### Chain drive

Check the chain tension in the top of the machine (inside). The chain has the correct tension when it can be pushed 5mm.

To tighten the chain, loosen the bolts in position (1).

Adjust the tension by turning the nut in position (2) until the chain has the correct tension. Before the nut is turned the contra nut on the backside of the bracket must be loos.

Remember to fasten all the bolts after the adjustment.

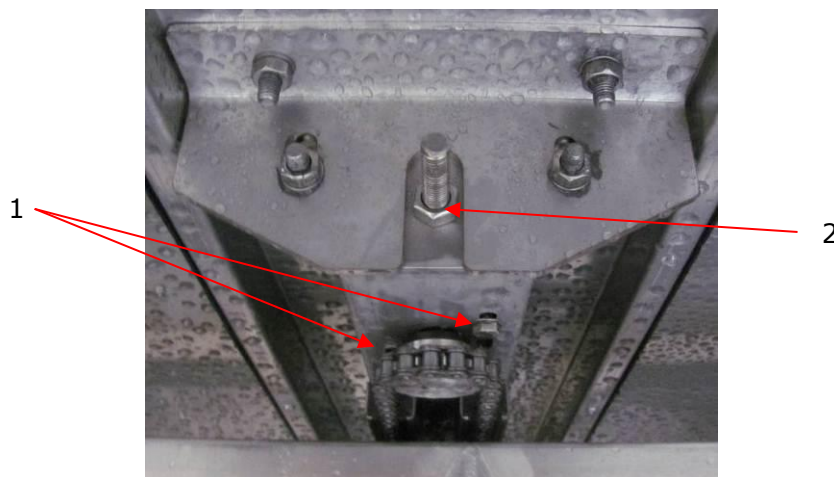


Fig 5.16 Adjusting chain tension

When the machine is taking in to use the chain must be tensioned after:

- 20 hours
- 50 hours
- Then each 200 hours
- Must be replaced after 3000 hours

### Diaphragm pump speed

The speed of the diaphragm pumps for filling and emptying of tanks is adjusted by turning the throttle valve mounted on the air tube feeding the pump.



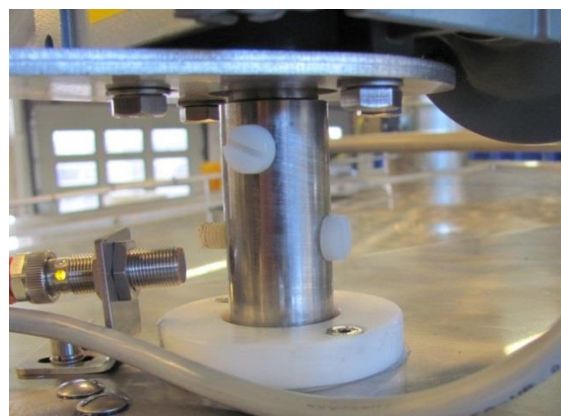
*Fig 5.17 adjusting speed of filling/ emptying pump*

If the pump and the filter have been full of air you will possibly have to increase the speed of the pump in order to make it draw liquid again.

### Secure bolts

Replacing the security bolt on the moveable nozzle arm

If the movable nozzle arm has been block, the security bolt may be broken. Replace the M8 treat nylon bolts. (2 piece M8 40mm long).



*Fig 5.18 Security bolts*

## Service and maintenance interval

Check points	Weekly	Monthly	6 months	Yearly
Filter, rinse	X			
Filter, wash	X			
Gear motor for slide				X
Nozzles		X		
Pneumatic pump				X
Heating elements		X		
Level Switch		X		
Centrifugal pump		X <sup>1</sup>		
Clamp sealing's			X	
Hoses inside the wash area			X	
Sealing on lid and top cover			X	
Filter regulator and water separator	X			
Chain tension		X		
Bearings for chain drive			X	
Wheels for slide			X	
Cleaning of tanks				X
Complete service check				X
Drain valve		X		X

This is our recommended service intervals. They depend on how many washing hours the machine is running. We recommend you to check these points to make sure your machine is in a good condition. The filters should be changed or cleaned regularly to maintain a good cleaning result.

**X<sup>1</sup>:** Must be checked after 200 hours and shaft sealing must be changed after 2500 hours.

See spare parts manual for further instructions!

## 6. Touchscreen




### MAINSCREEN

The main screen displays the most relevant information regarding the unit. The screen may appear differently, depending on the machine configuration and options



At the centre of the screen status is shown.

- READY
- STANDBY
- WASH
- DRAIN
- AFTER RINSE
- END
- ALARM
- DOOR OPEN

When the  button is pressed, the machine will start in the washing sequence. If  is pressed, the machine stops, The machine will restart the washing sequence after pressing .



- Turn on / off liquid tank heating element if heating is installed.



- Temperatur of tank, if heating elements are installed



- (option) Current working pressure



- (option) Auto filling – If the unit is equipped with autofilling system. The button will only appear when the liquid level is low. Right button is for the wash liquid tank, Left button is for rinse liquid tank. Press button to start autofilling.



- Current state of the drain valve – Green = open, Red = closed




- Current alarm – Press to display current alarm

If the button "MENU" is pressed, you will switch to the display "MENU".

## MENU




- Press "Program Setting" to go to the "Program Settings" menu
- Press "Manual Operations" to go to the "Manual Operations" menu
- Press "Input" to go to the "Input" menu
- Press "Tank Clean" to go to the "Tank Clean" menu
- Press "Output" to go to the "Output" menu
- Press "Alarms" to go to the "Alarms" menu
- Press "Service" to go to the "Service" menu
- Press "Flexo Wash" to go to the "Flexo Wash" information screen
- Press  - Return to menu

## PROGRAM SETTINGS

In this window it is possible to adjust the washing parameters for the washing unit. The parameters must be unlocked by password before they can be changed. Contact Flexo Wash to option the password.




- Washing time – Wash time in minutes
- Drain time – Time between the wash and the rinse sequence. ATTENTION! If the drain time is too short, liquid will drain from wash tank to the after rinse tank, over filling the after rinse tank.
- Rinse time – After rinse time in minutes
- Stabilization time – Normally used for solvent liquids - Time between "after rinse" and "ventilation", the stabilization time can be set to reduce the level of liquid vapour in the wash chamber before start of ventilation

- Ventilation time – Normally used for solvent liquids – minimum time of ventilation before the lid can be opened.
- Close drain time – Normally used for solvent liquids - time after “after rinse” before the “after rinse drain valve” is closed.
- Set Temp. – set point temperature for the cleaning liquid / after rinse liquid
- Heat timer – Go to the automatic heat timer menu
-  - Return to menu

### HEAT TIMER - OPTION

If heat elements are installed in the machine, then it is possible to automatically turn on and off the heating elements. To set the time – press day and enter “on” time and “off” time.



- *Automatic Heat OFF* – Press to turn off automatic heat timer
-  - return to “program settings”

## MANUAL

The manual operation mode can be used to check the functions of the unit. To enter the manual operations you need a password. Contact Flexo Wash to obtain the password.



- "Wash Pump On" - starts the wash liquid pump if the lid is closed and the wash valves are open, see below.
- "Rinse Pump On" - starts the rinse liquid pump if the lid is closed and the rinse valve is open, see below.
- "Carriage Motor On" - Starts the carriage Motor - Carriage starts to move.
- "Wash Valve On" - Liquid is drained to the wash liquid tank.
- "Rinse Valve On" - Liquid is drained to the after rinse tank.

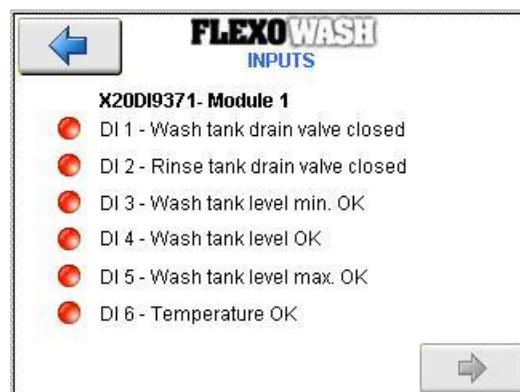
All manual functions are stopped by deactivating the function start button



- Return to "Menu"

## INPUT

The input screen displays the current state of all sensors on the unit. Information regarding input is mainly used for trouble shooting. For more information contact Flexo Wash.



- Return to "Menu"

## TANK CLEAN - OPTION

This page is only available if the unit has a tank or hose cleaning system installed



Tank hose cleaning – Time in minutes for tank cleaning  
 Start – Starts cleaning sequence, can only be started if the lid is closed  
 Stop – Stops sequence  
 Remember to turn the valves to tank.



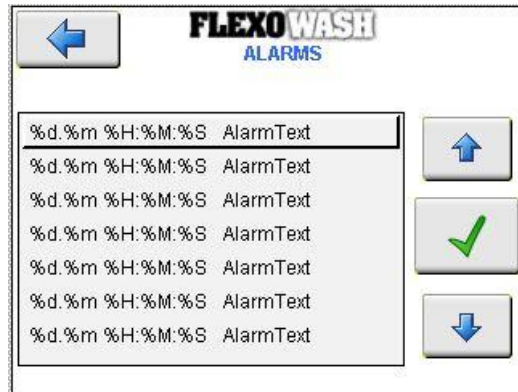
## OUTPUT


The output screen displays the current state of all sensors on the unit. Information regarding input is mainly used for trouble shooting. For more information contact Flexo Wash



## Alarms

This Screen shows the current alarms on the unit – Alarms are used for trouble shooting



The screen show the registered errors. When pressing  the errors that are no longer present are removed. Use the arrows to scroll up and down in the list. When the error is corrected, go to the main menu.



- Return to "Menu"

## Service

This screen displays relevant service information on the unit



"TIME" shows the hours the machine has run since the last "RESET".

"TOTAL TIME" shows the total hours that the machine has run.

"WASH" shows the number of washes that has been washed since last "RESET".

"TOTAL WASH" shows the total number of washes.

Reset filter Change – Press to reset "Change filter alarm".

Reset Service – Press to reset "Call service alarm".

Machine configuration – Machine configuration – can only be changed by Flexo Wash Technicians.



- Return to "Menu"

## Flexo Wash Info Page

The information page shows Flexo Wash contact information and current software version



Press "Language" to change unit language



- Return to "Menu"

## LANGUAGE

Change the language on the screen.



- Return to "Flexo Wash Info page"

## 7. Troubleshooting

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### A. The machine does not start.

- 1) Check if air and power are connected.
- 2) Have you started the compressor?
- 3) Min. pressure 7 BAR.
- 4) Have you set the timekeepers?
- 5) Have you released the emergency stop button to start position and pressed the reset button next to the emergency button?
- 6) Have you closed the lid and thereby activated the lid sensor? See input page
- 7) Check fo blocking of drain valves

### B. The cleaning liquid does not return to the tank.

- 1) Check if the machine is levelled correctly.
- 2) Is the air pressure sufficient, Min. 7 BAR?
- 3) Is the drain time long enough, approx. 3-4 min?
- 4) Is the outlet drain valve or hose blocked?

### C. The cleaning liquid disappears from the tank.

- 1) Is the drain time long enough, 3-4 min?
- 2) Have you closed the stop valve for emptying the tank?
- 3) Is the air pressure correct?
- 4) Check if the machine is levelled correctly.
- 5) If there is too much ink cleaning liquid.
- 6) Hose to carriage broken or come off.

### D. The pump does not draw liquid

- 1) Does the pump run?
- 2) Check the liquid level.
- 3) Is the timer set?
- 4) Has the pump run dry?
- 5) Is the air pressure sufficient?
- 6) Have you tightened the filter house to avoid air entering the system?

## PLC Alarms:

Alarm	Action
Wash tank: Low fluid level;	Check level in wash tank
Wash tank: High fluid level;	Check level in wash tank
Wash tank: Low supply pressure;	Check hoses in wash chamber, filter or nozzles pressure to low in system
Wash tank: High supply pressure;	Check nozzles pressure to high in system
Wash tank: Pressure build up alarm;	Pressure takes too long time to build up pressure, check hoses
Wash tank: Low temperature;	Wait until set point ok
Wash tank: Heat up alarm;	Wash tank takes too long to heat check heating elements
Wash motor/ pump: Thermo alarm;	Motor block check wash pump
Wash tank: Pressure sensor defective;	Pressure sensor defect
Wash tank: Wash tank temperature low;	Wait until set point ok
Wash tank: Wash tank temperature sensor defective;	Temperature sensor defect
Wash valve not closed;	Drain valve not closed check sensor or valve for blocking
Wash tank: Heat fuse alarm;	Fuse heat needs reset, check heating element
Change wash filter alarm;	Change filter
Wash valve not opened;	Check valve

Rinse tank: Low fluid level;	Check level in wash tank
Rinse tank: High fluid level;	Check level rinse tank
Rinse tank: Low supply pressure;	Check hoses in wash chamber, filter or nozzles pressure to low in system
Rinse tank: High supply pressure;	Check nozzles, pressure to high in system
Rinse tank: Pressure build up alarm;	Pressure takes too long time to build up pressure, check hoses
Rinse tank: Low temperature;	Wait until set point ok
Rinse tank: Heat up alarm;	Wash tank takes too long to heat check heating elements
Rinse motor/pump Thermo:	Motor block check wash pump
Rinse tank: Pressure sensor defective;	Pressure sensor defect
Rinse tank temperature low;	Wait until set point ok
Rinse tank temperature sensor defective;	Temperature sensor defect
Rinse valve not closed;	Drain valve not closed check sensor or valve for blocking
Rinse tank: Heat fuse alarm;	Fuse heat needs reset, check heating element
Change rinse filter alarm;	Change filter
Rinse valve not opened;	Check valve

Thermo alarm carriage motor:	Slide motor have been blocked or defect
Slide coupling alarm;	Slide have been blocked
Ventilation alarm;	Ventilation is not working
Machine service alarm;	Machine need service reset on service page
LEL sensor defective;	LEL sensor takes too long time give signal to open lid.
Emergency Stop Alarm;	release Emergency alarm button
Door open;	Door sensor error during wash, check sensor
Close door before start;	Close door to start, check door sensor
Phase sequence not ok;	Error on supply Phases
Temperature alarm;	Solvent in tank too warm check cooling

## 8. Declaration of Conformity

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**FLEXO WASH**

CE

### DECLARATION OF CONFORMITY

Manufacturer:

FLEXO WASH ApS  
Grenåvej 631 K  
8541 Skødstrup  
DENMARK

Herewith declare that:

The machine

**Designation** FLEXO WASH

**Type, Serial Number, Year:**

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In the version delivered by us is produced in accordance with the following directives:

<b>Directives:</b>	2006/42/EC	Machinery Directive
	2006/95/EC	Low Voltage Directive
	2004/108/EC	Electromagnetic Compatibility (EMC) Directive

**Signature of manufacture:** 

**Date:** \_\_\_\_\_

**Information of signatory:** Anders Kongstad – Technical Director

## Appendix 1: Extra-large filters (Option)

*If the machine is equipped with extra-large filters.*

On the left side the machine has two filters for the cleaning liquid. It is possible to use both filters at the same time for high filter capacity. This is done by opening the valves placed at both filters entry and outlet. When the filters gets to dirty the pressure will drop. This indicates that the filter needs cleaning.

This system also has the opportunity of only using one filter for the cleaning liquid, simply by closing the valves to one of the filters. This feature makes it possible to keep the machine running while the other filter is cleaned. It is very important that switching between the two filters only happens while the machine is stopped, so that there is no pressure in the filters. When the machine has stopped the valves to the filter in use can be closed. After closing the valves the filter can be opened and the inner part of the filter can be removed for cleaning. Before the machine is started again the filter must be closed, and the valves one the other filter is opened so the liquid is directed to the clean filter.

On the right side the machine has a filter for the after rinse liquid. This filter is also equipped with a pressure gauges indicating when the filter needs cleaning.

### **Important:**

Filters must only be opened when the machine is stopped!  
Switching between the two filters for the cleaning liquid must only be performed when the machine is stopped!





A horizontal splash of water with bubbles and droplets, extending across the top of the page.

**FLEXO WASH**

Leading Cleaning Technology