Pump-o-Matic 2 pumps

Dosing System for Professional Laundry Machines

Contents:

1. GETTING STARTED

1.1 WELCOME

Get ready for a whole new experience. **WashBasic** has a fresh, new look and it's easier than ever to use.

This proven chemical dispensing system is engineered to dispense one or two chemicals. Chemical feeds either by a trigger signal directly from the washer or manually by the operator with the activating switches on the front cover. It is also possible to activate the unit dispensing with a remote switch (optional) to be connected to the **WashBasic**. A unique "Product Lockout" feature helps you control costs and product consumption.

This book explains how to install and set up the **WashBasic** and where to turn for help so you can enjoy the most intuitive dosing system yet.

➲ **Please review this manual carefully. Pay particular attention to warnings and precautions. Always follow good safety procedures, including the use of proper clothing, eye and face protection.**

✋ **Please read through entire manual and choose operating mode before you begin installation.**

1.2 WHAT'S IN THE BOX?

Before you start, check that your box contains the following items:
- **WashBasic** system;
- Instruction manual;
- Mounting kit;
- PVC tube: 8x12 mm (3/8"), 4 m (16.4 ft) each pump.

1.3 TECHNICAL FEATURES

- Power Supply: 100-240 Vac @ 50-60 Hz with main switch
- Maximum Power Consumption: 15W
- Protection of the System: IP54. The gasketed enclosure on the **WashBasic** is highly water resistant and the electronics are further protected within the enclosure
- Fuse: 1,25A T 250V, 5X20 mm
- Weight: 3 kg (6.61 lb)
- Dimensions (L x D x H): 205 x 135 x 200 mm (8.07 x 5.31 x 7.87 in)

These symbols on or inside the unit mean:

 Danger: high voltage.

 Caution, replace fuse with same type and value

 Power "ON" (supply)

 Power "OFF" (supply)

1.4 WARNINGS

⚡ **Caution! Risk of electrical shock**

✋ **Check the voltage of the main power source and make sure that it matches the available input voltage (100-240 Vac) of the transformer inside the WashBasic.**

✋ **Adding or replacing pumps, pump tubes or other components should only be performed by qualified personnel**

✋ **All electrical connections to the WashBasic should first be verified with a meter. Application of incorrect voltage will permanently damage the unit and is not covered under warranty. Avoid wiring to any power source that has large fluctuations in voltage and/or is prone to surges. Refer to the wiring diagram in this manual for all power and signal connections.**

✋ **For all connections, please refer to the circuit board schematic contained in this manual.**

✋ **Check the model of the equipment you have purchased for the references about installation, setting and programming.**

⚠ **CAUTION: The WashBasic has high voltage connected to the transformer. Always disconnect power when servicing the unit.**

⚠ **CAUTION: During installation and electrical connections remove all power from the laundry machine.**

➲ **Failure to follow these instructions may lead to personal injury, damage to the product or poor product performance.**

1.5 MATERIALS REQUIRED DURING INSTALLATION

- Two pole wire: 2x0.75 - H-05 VVF (qty 2; length 2 mt - for trigger signal);
- Two pole wire: 2x1.5 - H-05 VVF (qty 1; length 2 mt - for power supply);
- 4x6 mm copper tubing (qty 1; length 2 mt - for water solenoid valve).

➲ **The lengths indicated above are for typical installations. Your installation may require different lengths.**

➲ **An installation kit is available.**

2. INSTALLATION

Mount the unit on a nearby wall (using suitable hardware) to the laundry machine. Try to keep the unit within one meter from the final rinse line to avoid long tubing runs.
Locate the **WashBasic** as close to the chemical product tanks as possible in order to maximize both your motor and tube life.

Check all applicable plumbing and electrical codes before proceeding with the installation. This will help to ensure that the system is installed in safe and suitable manner. A wiring schematic of the laundry machine should be used as reference for making electrical connections, this is typically provided by the laundry machine manufacturer if one cannot be located on the machine itself.

2.1 MOUNTING THE SYSTEM

Apply the panel unit system with the brackets and screws supplied:
- Determine a suitable location for the system;
- Using the bracket as a template, mark and drill holes for bolting the system to the wall;
- Insert the anchors in the holes;
- Bolt the bracket in place with the hardware provided;
- Mount the system with the bracket as the picture below;
- Open the Cabinet Front, unscrewing the upper screws by ¼ of a turn.

Picture 1
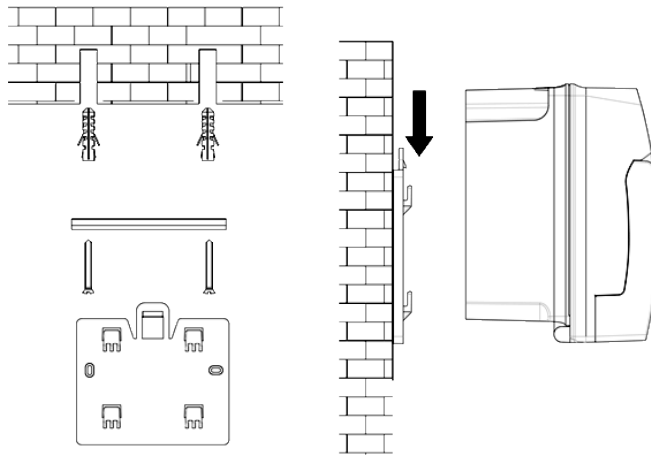
2.2   PLUMBING

2.2.1   Liquid product plumbing:

Connect 8X12 mm (3/8") PVC tubing from the output (right) side of the pump to the injection point.
Connect 8x12 mm (3/8") PVC tubing from the chemical source to the suction (left) side of the pump.

2.2.2   Solid product plumbing:

A powder or solid type feeder (not provided) should be used for dispensing dry detergent products. Follow the instructions included with the detergent feeder for installation, and recommended water temperature/pressure. Make sure that the detergent feeder (bowl) is located in a position on the wall that allows the feeding of the detergent in the laundry machine through gravity.

- Cut a suitable length of ¼" OD copper tubing (not provided) and connect between the input side of the water solenoid valve and the water source;
- Cut a suitable length of ¼" OD copper tubing (not provided) and connect between the output of water solenoid to a powder or solid detergent feeder;
- Cut a suitable length of tubing (not provided) and connect between the output of detergent feeder to the elbow connector;

Carefully tighten the compression nuts on the water solenoid; over tightening may cause solenoid to leak. Tighten connections to the water source and detergent feeder as needed.

Picture 2
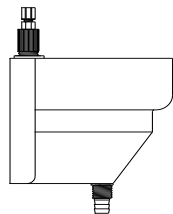
ⓘ   **The water solenoid valve does not have a set direction for input/output.**

ⓘ   **Always use the foot filter and make sure that it reaches the bottom of the container. Periodically check and clean the filter of buildup or debris.**

HOSE REPLACEMENT
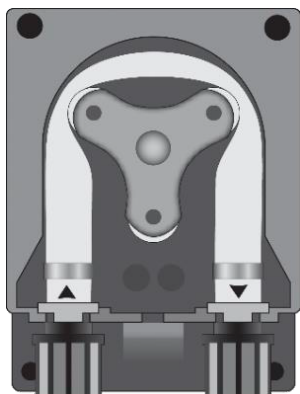
Open the pump's lid and release the hose by pulling the left connector upward.
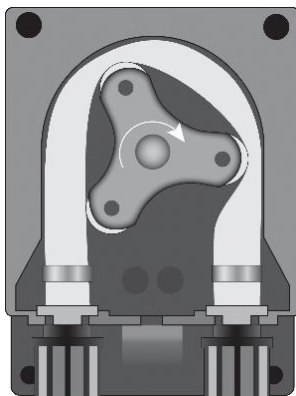
Position the roller at 7h15, turning it in the direction of the circular arrow.
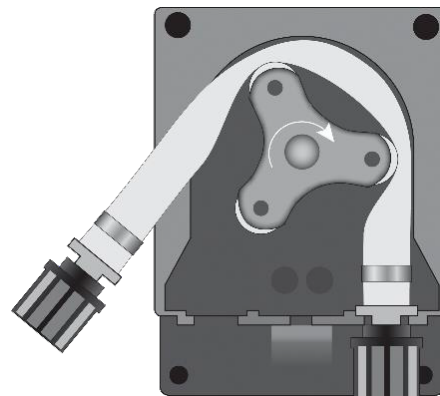
Completely release the left connector, holding it taut towards the outside, and turn the roller in the direction of the circular arrow so that the hose is freed up to the right connector.
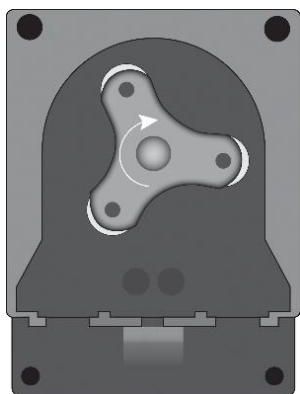
Position the roller at 7h05, turning it in the direction of the circular arrow.
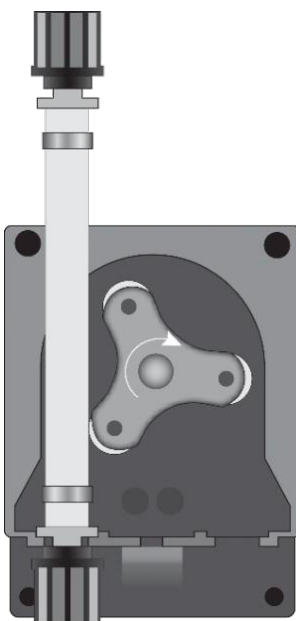
Insert the left connector into the relative housing and pass the hose under the roller's guide. Turn the roller in the direction of the circular arrow, simultaneously accompanying the hose into the pump's head, until the right connector is reached.
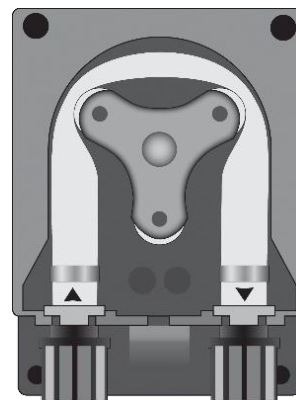
Close the pump's lid and press its surface hard so that it is properly locked into place.

3. ELECTRICAL CONNECTIONS (Qualified service personnel only)

⚠ **CAUTION: The WashBasic has high voltage connected to the transformer. Always disconnect power when servicing the unit.**

✋ **All electrical connections to the WashBasic system should first be verified with a meter. Application of incorrect voltage will permanently damage the unit and is not covered under warranty. Avoid wiring to any power source that has large fluctuations in voltage and/or is prone to surges. Refer to the wiring diagram in this manual for all power and signal connections. All wiring must conform to local electrical codes.**
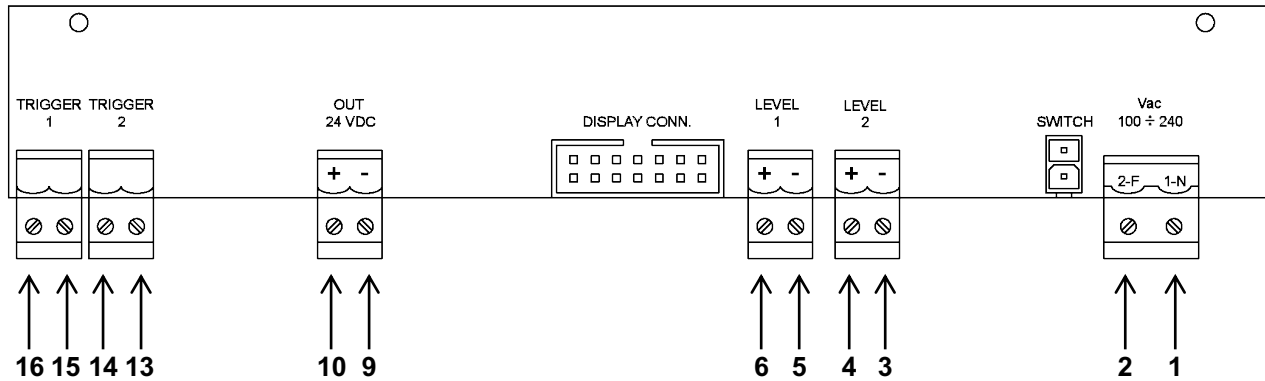
CONNECTOR	SIGNAL	TYPE OF SIGNAL	TYPE
1-2	**Power Supply**	VAC (100-240)	INPUT
3-4	**Level 2**	Dry Contact	INPUT
5-6	**Level 1**	Dry Contact	INPUT
9-10	**Alarm Output**	OUT 24 VDC	OUTPUT
13-14	**Trigger 2**	VAC (12-240)	INPUT
15-16	**Trigger 1**	VAC (12-240)	INPUT

4. STARTUP, RUNNING AND PROGRAMMING MODE

4.1 START UP

When power is switched on, the display will briefly show the firmware code and its revision number and go through a self-test routine. Then it will show the default display:

Ready	Ready

4.2 RUNNING MODE

Running mode will always show the ongoing phase for each pump on the display:

- When in standby

Ready	Ready

- As the trigger is present and accepted

Trig	Trig

- Time decreasing in delay mode

Del010	Del005

- Time decreasing in dosing mode

Dos018	Dos011

- Time decreasing in locked mode

Lck000	Lck000

If only one program is set, the system will not show the program parameter.
If multiple programs are set the running mode will be as follows:

- When in standby

Ready	P1	Ready

By using the buttons in running mode, it is possible to:

- Activate the dosage of the right pump by pressing [▲];
- Activate the dosage of the left pump by pressing [▼];
- Change the program from 1 to 9, if multiple programs are set, by pressing [enter/esc] once;
- Access the Setup/Setting menu by pressing [enter/esc] for more than 3 seconds.

4.3 PROGRAMMING MODE

To access the programming menu, when in standby, press [enter/esc] for more than 3 seconds than use [▼] [▲] and [enter/esc] to select one of the following available options: Prime, Setup, Setting, Escape.
When in programming mode, press [enter/esc] for more than 3 seconds to exit and return to the standby mode at any time.

Notes:

- The user will be asked to insert the Password **only if password is different than 0000**, otherwise the access to the programming menu will be free.
- Once the password is set and after pressing [enter/esc] for 3 seconds to access to programming menu, if buttons are not used for more than 20 seconds, the system will automatically exit the programming mode.

5. PROGRAMMING MENU

5.1 PRIMING INSTRUCTIONS

	DISPLAY READING	DESCRIPTION
1	Ready Ready	From standby, press **enter/esc** for more than 3 sec. to access the programming menu.
2	Password 0000	If the password is set, use ▼ ▲ to insert the password and press **enter/esc** to confirm.
3	Prime	Use ▼ ▲ to select **Prime** and press **enter/esc** to confirm.
4	Prime▼ ▲Prime	Press and hold ▼ to prime the DETERGENT pump. Press and hold ▲ to prime the RINSE pump. Press **enter/esc** to confirm and to return to the previous menu.
5	Escape	To exit the programming mode, use ▼ ▲ to select **Escape** and press **enter/esc** to confirm.

5.2 SETUP MENU

	DISPLAY READING	DESCRIPTION
1	Ready Ready	From standby, press **enter/esc** for more than 3 sec. to access the programming menu.
2	Password 0000	If the password is set, use ▼ ▲ to insert the password and press **enter/esc** to confirm.
3	Setup	Use ▼ ▲ to select **Setup** and press **enter** to confirm.
4	Pumps Dosage	If the option **Dosage Method** in **Setting menu** is set to **Volume:** Use ▼ ▲ to select **Pumps Dosage** and press **enter/esc** to confirm.
5	000s − Dos 000s	Press ▲ to start/stop the dosage. Press ▼ to decrease/adj. time up to "0". Press **enter/esc** to confirm and move to the next option.
6	000s Dos − 000s	Press ▲ to start/stop the dosage. Press ▼ to decrease/adj. time up to "0". Press **enter/esc** to confirm and move to the next option.
7	Pumps Time	If the option **Dosage Method** in **Setting menu** is set to **Time:** Use ▼ ▲ to select **Pumps Time** and press **enter/esc** to confirm.
8	000s − Time 000s	Press and hold ▼ ▲ to scroll the value (up to 999s). Press **enter/esc** to confirm and to move to the next option.
9	000s Time − 000s	Press and hold ▼ ▲ to scroll the value (up to 999s). Press **enter/esc** to confirm and to move to the next option.
10	Pumps Delay	Use ▼ ▲ to select **Pumps Delay** and press **enter/esc** to setup the delay.
11	000s − Del 000s	Press and hold ▼ ▲ to scroll the value (up to 999s). Press **enter/esc** to confirm and to move to the next option.
12	000s Del − 000s	Press and hold ▼ ▲ to scroll the value (up to 999s). Press **enter/esc** to confirm and to move to the next option.
13	Pumps Lockout	Use ▼ ▲ to select **Pumps Lockout** and press **enter/esc** to setup the lockout.
14	000m − Lck 000m	Press and hold ▼ ▲ to select the value (up to 999m). Press **enter/esc** to confirm and to move to the next option.
15	000m Lck − 000m	Press and hold ▼ ▲ to select the value (up to 999m). Press **enter/esc** to confirm and to return to the previous menu.
16	Escape	To exit the programming mode, use ▼ ▲ to select **Escape** and press **enter/esc** to confirm.

5.3 SETTING MENU

	DISPLAY READING	DESCRIPTION
1	Ready Ready	From standby, press **enter/esc** for more than 3 sec. to access the programming menu.
2	Password 0000	If the password is set, use ▼ ▲ to insert the password and press **enter/esc** to confirm.
3	Setting	Use ▼ ▲ to select **Setting** and press **enter/esc** to confirm.
4	Password Set	Use ▼ ▲ to select **Password Set** and press **enter/esc** to confirm.
5	Pass. Set 0000	Use ▼ ▲ to set the new password. Press **enter/esc** to confirm and to move to the next option.
6	Programs Qty	Use ▼ ▲ to select **Programs Qty** and press **enter/esc** to confirm.
7	Prog. N 1	Use ▼ ▲ and **enter/esc** to select **from 1 to 9** programs. Use ▼ ▲ to change the programs qty. Press **enter/esc** to confirm and to move to the next option.
8	Washer Trigger	Use ▼ ▲ to select **Washer Trigger** and press **enter/esc** to confirm.
9	Trigger	Use ▼ ▲ to select between **12-230V** and **80-230V**. Press **enter/esc** to confirm and to move to the next option.
10	Language	Use ▼ ▲ to select **Language** and press **enter/esc** to confirm.
11	Lan. English	Use ▼ ▲ to select between **English, French, Italian, Spanish**. Press **enter/esc** to confirm and to move to the next option.
12	Washer solenoid	Use ▼ ▲ to select **Washer solenoid** and press **enter/esc** to confirm.
13	Wash. sole. NC	Use ▼ ▲ to select between **NO** and **NC**. Press **enter/esc** to confirm and to move to the next option.
14	Dosage method	Use ▼ ▲ to select **Dosage method** and press **enter/esc** to confirm.
15	Dosage Volume	Use ▼ ▲ to select between **Volume** and **Time**. Press **enter/esc** to confirm and to move to the next option.
16	Buttons enable	Use ▼ ▲ to select **Buttons enable** and press **enter/esc** to confirm.
17	Butt. Enable Yes	Use ▼ ▲ to select **Yes** or **No**. Press **enter/esc** to confirm and to move to the next option.
18	Trigger filter	Use ▼ ▲ to select **Trigger filter** and press **enter/esc** to confirm.
19	Trig. Filt. 03s	Use ▼ ▲ to set a value between **0-99s**. Press **enter/esc** to confirm and to move to the next option.
20	Escape	To exit the programming mode, use ▼ ▲ to select **Escape** and press **enter/esc** to confirm.

5.4 SYSTEM RESET

To reset the system, press **enter/esc** for 15 seconds. The system will show:

| Reset   Yes |

Use ▼ ▲ to select **Yes** and press **enter/esc** to confirm.

6. ALARMS

Alarm Message	Alarm Relay	Buzzer	Pump Block	Restore Condition
Par Err PressEnt	NO	NO	YES	Restore default values by pressing [enter esc] and reprogram the system according to specific needs.
Pump 1 LEVEL	YES	YES	YES	Refill with product to clear the alarm.
Pump 2 LEVEL	YES	YES	YES	Refill with product to clear the alarm.
M.Block	YES	YES	YES	System restart. Check for hardware malfunction.

7. MAINTENANCE & ACCESSORIES

7.1   MAINTENANCE

Routine maintenance on the **WashBasic** unit includes replacing worn out pump tubes and keeping the unit clean. Repairs to the unit involve modular component replacements. This minimizes spare parts inventory requirements and speeds up the service process in the field.

SQUEEZE TUBE REPLACEMENT

Replace squeeze tubes on regular maintenance intervals. A planned preventive maintenance schedule will insure replacement before the tube fails. In the event the tube does rupture, clean all product from pump with a damp cloth.

- Disconnect the power supply and open the blue transparent lid of the **WashBasic**;
- Remove the old tube and insert the new squeezing tube;
- Close the blue transparent lid of the **WashBasic** and make sure the lid clicks into its seat.

7.2   ACCESSORIES

It is possible to connect a remote control to the system.

8. TROUBLESHOOTING

	Problem	Action
1	**Power light does not illuminate**	• Check fuses on the circuit board. • Check input terminals on board for correct input voltage. Refer to the circuit board diagram.
2	**Pump(s) or solenoid will not activate**	• Check pump output terminals for loose screws and disconnected wires. • Check for proper voltage across motor windings (or solenoid contacts). • Check for obstruction in pump head (or solenoid).
3	**Too much or too low chemical**	• Check the programmed quantity.

9. Console

The function **Button Enable** have to be enabled in order that the console can work.

Fixed green: during the dosage of the left pump
Flashing Red: during an alarm of the left pump

Fixed green: during the dosage of the right pump
Flashing Red: during an alarm of the right pump

start
dosing

start
dosing

By pressing activate the programmed dosage of the left pump

By pressing activate the programmed dosage of the right pump
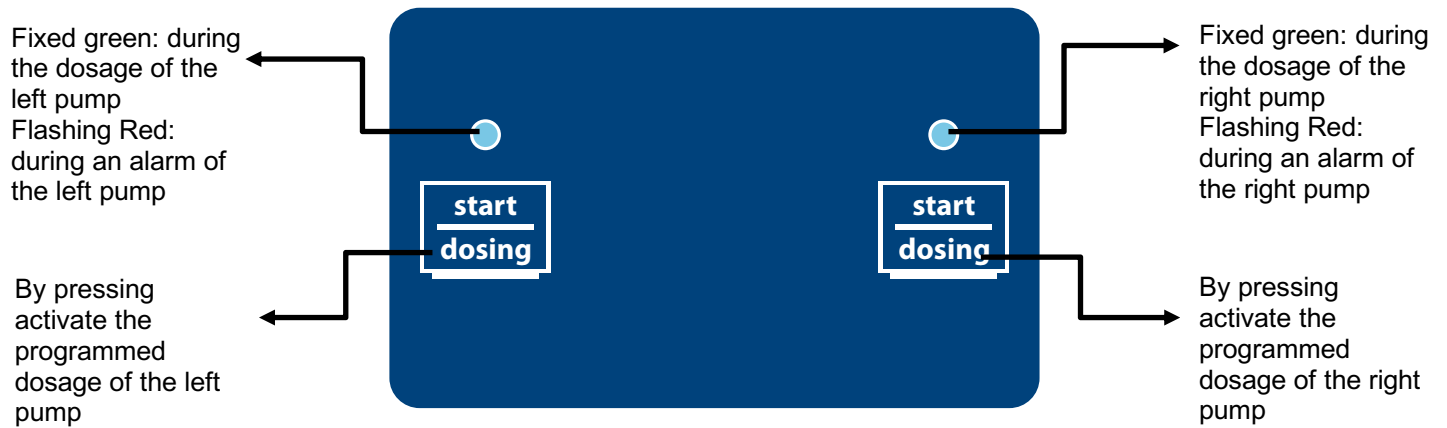
10. Technical support

For technical assistance please contact:

PODAB
031-752 01 70