D60
tethys

T60
tethys

T45
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SHORT-FORM MANUAL	EN
MANUEL SIMPLIFIÉ	FR
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D60 T60 T45
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WASHER DISINFECTOR
- SHORT-FORM MANUAL -

This manual describes two product series.
- **Tethys D60:** instrument washers, 60cm, with **forced-air drying system**.
- **Tethys T60:** instrument washers, 60cm, **without drying system**.
- **Tethys T45:** instrument washers, 45cm, **without drying system**.

The diagrams and illustrations show the graphics on the more complete Tethys D60 series. For the Tethys T60 Tethys T45, the same procedures and instructions apply unless otherwise specified.
This document is intended for quick consultation during everyday use of the instrument washer. For all details relating to correct, safe use of the appliances concerned, interpretation of alarm messages, installation instructions and technical data, please refer to the full version of the operator's manual.
The appliance is supplied complete with the full version of the operator's manual on an electronic medium (CD-ROM) in pdf format; it can be read using software available for free download.
A paper copy of the full operator's manual can be obtained from the dealer who supplied the appliance (ref. EU regulation 207/2012).

Instrument washers for use in hospitals, class IIb medical devices
Intended use - The appliance is built to provide the following function:
Washing with Thermal Disinfection of surgical or dental instruments.
The type of instrument which can be processed in a cycle depends on the washing trolley used.
Any use other than that described constitutes misuse.
Instrument manufacturers' instructions should always be followed when choosing the most appropriate washing and/or disinfection treatment.
The manual is an integral part of the appliance.
Installation, maintenance and any repairs must be carried out by technical staff authorised by the manufacturer. Apart from leading to forfeiture of warranty cover, repairs performed by unauthorised staff may put the user's safety at risk.
Any components must always be replaced with genuine spare parts. Use of the appliance in breach of the instructions provided by the manufacturer may jeopardise the specified protection level (safety of the appliance) and the warranty cover for it (see point 5.4.4 of IEC 61010-1:2001).
The manufacturer declines all liability for uses other than those stated above.

CONFORMITY	- European directive 2006/95/CE [Safety]: European Standard EN61010-1:2001, EN61010-2-040:2005 - European directive 2004/108/CE [Emc] : European Standard EN61326:2006 - European directive 2011/65/EC (RoHS 2) : European Standard EN 50581:2012 - Other: European Standard EN 61770:2009 - European directive 93/42/CE, 2007/47/CE [MD]: European Standard EN ISO 14971:2012, EN 62304:2006, EN62366:2008, EN ISO 15883-1:2009, EN ISO 15883-2:2009

1   SAFETY WARNINGS

1.1   KEY TO THE SYMBOLS USED

Read with particular attention *(Symbol which appears beside particularly important instructions or warnings).*

Warning, danger: refer to the manual. *(The symbol appears on the appliance's technical dataplate to emphasise that staff must read the manual before using it. The symbol appears in the manual next to safety instructions)*

Warning, hot surface. *(the symbol is affixed to the appliance close to parts which may heat to high temperatures and constitute a burn hazard - do not touch parts near this symbol. The symbol appears in the manual to emphasise safety instructions relating to the burn hazard).*

Warning, electric shock hazard. *(The symbol is affixed close to live parts - the appliance's power supply must be disconnected before doing any work on these parts. Never touch live parts unless the electricity supply is disconnected).*

Biological hazard.

DISPOSAL *At the end of its working life, the product must be consigned to a disposal plant for recovery and recycling in accordance with the relevant legislation in the country of installation. Contact the specialist disposal consortia.This appliance is tagged under European Directive 2002/96/EC ON WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE).*
By making sure that this product is disposed of correctly, the user helps to prevent potential detrimental effects on health and the environment.

CE marking; *Notified body: IMQ. This symbol appears on the machine's technical data label and in this manual.*

1.2   GENERAL WARNINGS

⚠	***- Leaning or sitting on the open door of the appliance might cause it to tip over****. The maximum weight which can be loaded on the door, including the weight of the instrument trolley, must never exceed*
	    Tethys D60, Tethys T60: 37kg
	    Tethys T45: 18kg
	- if the weight of the instrument trolley and baskets is excluded, ***the maximum load must never exceed:***
	    Tethys D60, Tethys T60: ***23kg****.*
	    *Tethys T45****: 15Kg***
	- Only for models equipped with drying system: For optimal DRYING, the load for processing must never exceed 15 kg.
	- In the event of malfunction, disconnect the appliance from the electricity supply and turn off the water tap. Then contact your nearest authorised service centre.
	- Open the door carefully, first waiting for the wash cycle to end.
	- The appliance has an automatic door opening system; do not force the door open while a program is in progress.
	- The appliance must only be used by staff suitably trained in its operation.
	- The tank of the appliance is not designed for users to climb into it. The user must never climb into the tank; this might put his safety at risk (ref. 7.102 IEC61010-2-040:2005).

🔥	***Do not place flammable substances inside the appliance. Do not use flammable detergents.*** *Never place alcohol or solvents such as turpentine, which might cause an explosion, inside the appliance. Do not place materials dirty with ash, wax or paint inside the appliance.*
📝	***N.B. - ABSENCE OF DEMINERALISED WATER SUPPLY*** *- If demineralised water is not available, the user is responsible for ensuring that the quality of the water supplied to the appliance does not cause mineral salts or other substances to be deposited on the instruments processed, rendering their subsequent use unsafe.*
♨	***Never touch the heating element immediately after the end of a wash programme.*** *Do not touch any residual liquids left inside the washing chamber; scalding hazard (ref. 7.102.c IEC61010-2-040:2005).*
📦	***When moving the appliance around, a forklift truck or pallet truck must be used.*** *Before leaving the factory, the base of the appliance is secured to a pallet, which is used for lifting and transporting it.* ***Do not use appliances which have been damaged in transit!*** *If in doubt, contact your dealer.*
☣	***CAUTION Warning applicable if the appliance is used for processing biologically contaminated material.*** *If a disinfection cycle is interrupted (by the user or due to an alarm generated by the appliance itself): take care when handling the instruments and the load in general in the washing chamber. The load and the internal parts of the appliance might be biologically contaminated/infected. Before handling the items in the load or performing any maintenance procedures: perform a full thermal disinfection cycle or, if a complete cycle is not possible, handle the load with due care (e.g. using the protective equipment specified when handling the infected load, e.g. gloves, lab coat).*

2   USING THE APPLIANCE

2.1   CONTROL PANEL

Tethys D60 CONTROL PANEL	Tethys T60, Tethys T45 CONTROL PANEL

KEY	MEANING	KEY	MEANING
⏻	1 - On/Off	▱	5 – Functions
—〰	2 - Drying Decrease (if present)	+〰	6 - Drying Increase (if present)
◇/⊘	3 - Start / Stop	🔒	7 - Open door
◀	4 - Left selection, decrease value	▶	8 - Right selection, increase value

2.2   INDICATOR LEDS

fig. 1 – Control panel: digit area in the centre with indicator LEDs around the perimeter

1 - SYMBOLS ASSOCIATED TO A WARNING	
SYMBOL	**MEANING**
▽	**Lack of detergent** Lights up if the detergent level sensors are installed and one of them is at "minimum" level. The warning is displayed at the end of the cycle and, in combination with the LED, the segment display shows the code of the detergent to which the warning refers: P1: code "A- : 68" --- P2: code "A- : 69" --- P3: code "A- : 70" Activated at the end of the cycle and when the user attempts to start a new program. The washing cycle can be started with this light on by pressing the **Start/Stop** button again. If both alarms are present (cans P1 and P2 both empty), the **Start/Stop** button has to be pressed twice to start the cycle. (The appliance's internal memory records the event). **Replace the can of detergent which is running out with a new can as soon as possible.**
▨	**Maintenance: filter replacement** Only for models equipped with drying system . Active if the dryer is present and the absolute filter is installed. (The absolute filter is optional). The LED indicates that the absolute filter needs to be replaced. Operation of the light is triggered by the number of drying operating hours, set at 500h when the filter is new.
🔧	**Appliance maintenance** The LED illuminates to indicate that the appliance requires routine servicing. These are inspection and maintenance operations which must be performed by authorised staff to keep the appliance safe and in good working order.

1 - SYMBOLS ASSOCIATED TO A WARNING	
SYMBOL	**MEANING**
⮐	**No Salt** Salt must be added to the water softener reservoir in the tank.
⚠	**Alarm** The appliance has detected an anomaly. **A numerical code on the segment display indicates the alarm which has been triggered.** The alarms table in the full version of the manual details the components which may have caused the event for each alarm code, to simplify diagnostics and troubleshooting.

2 - SYMBOLS ASSOCIATED TO A WASHING CYCLE PARAMETER	
When the LEDs listed below light up, the value shown on the display is a parameter of the washing cycle in progress or being selected. When the cycle has not yet started: pressing the **Functions** button displays the cycle parameters. When the operating cycle is in progress: pressing the **Functions** button displays the value reached by the parameter associated to the LED.	
SYMBOL	**MEANING**
A_0	**A0, thermal disinfection** **With cycle running**: The LED is on when the digits in the middle of the screen show the A0 value reached. **With appliance in standby**: when the LED is on the digits in the middle of the screen show the A0 value associated to the cycle being selected. Parameter active if the cycle includes a thermal disinfection phase. Displayed on two screens ("t": thousands - "u": units).
🌡	**Temperature** **With cycle running**: The LED lights up when the display shows the temperature in the tank. - During washing: Tank temperature - During drying: Inlet air temperature (function introduced from firmware version 4.6.xx.yy). **With appliance in standby:** the value on the display shows the max. temperature associated to the cycle being selected.
T_d	**Thermal disinfection** Identifies a cycle with thermal disinfection; the LED flashes when a thermal disinfection phase is in progress.
﹀﹀﹀	**Drying** (only for models equipped with drying system). The LED comes on to identify a cycle with drying phase, even during selection. The LED flashes when the drying phase is in progress.When a program which includes the drying phase is selected, at the end of the cycle, the relative LED is: 1. on and steady if the process has been completed correctly, 2. flashing if drying has been interrupted (e.g. due to a power blackout or forced interruption of the program by the user).
🕐	**Remaining time** **With cycle running**: The LED lights up when the display shows the time remaining. **With appliance in standby:** the value on the display shows the estimated time for performance of the program. **The completion times shown on the display are guideline**: they may vary due to factors such as the intake water temperature and pressure.

2.3   SELECTING AND STARTING A WASHING PROGRAM

For guidance on cycle selection: see Program Table on CD. To run a program:
   a.   If the appliance is off, switch it on by pressing button **1** - **On/Off** (hold down for 2 seconds)
   b.   Close the door by shutting it against the appliance until the lock clicks shut. **The buttons are only enabled with the door closed.**
   c.   Use the **Selection** buttons **4 and 8** to select the program.
   d.   Once the selection has been made, button **5 - Functions** can be used to scroll through the **program parameters**.
   e.   Only for models equipped with drying system: if the program includes a drying phase, its duration can be adjusted using the **Drying decrease** and **Drying increase** buttons **2 and 6.**
   f.   Press button **3** - **Start/Stop** to start the cycle (hold it down for 2 seconds). Two beeps sound to indicate the start of the cycle.
   g.   Once the selected program has been successfully completed, the display shows "**End**".

2.4   END OF CYCLE

On completion of the program, the display shows: "***End***" - only if the washing phases have been performed and been completed correctly; " ***End***" does not appear if the program has been interrupted or if an error which may affect the cycle's effectiveness has occurred.
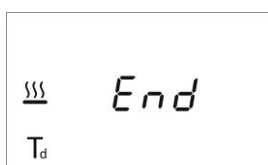

fig. 2 – End of cycle, display screen.

2.5   INTERRUPTING THE CYCLE

A cycle in progress can be interrupted by pressing button 3 - **Start/Stop**. It is not possible to open the door.
- If the button is pressed again within 60 seconds: the cycle is re-started.
- If the button isn't pressed within 60 seconds: an automatic reset cycle is performed automatically to return the machine to the standby condition.

$$\underline{\underline{\text{\small)))}}}\quad 5\ \ 05$$
$$T_d$$

fig. 3 – If a cycle is interrupted the appliance switches to Suspension mode. e.g. Display screen, Suspension of program 5: " S 05 ".

2.6   RESET CYCLE.

Starting the **RESET cycle**: hold BOTH buttons 5 - **Functions** and **3** - **Start/Stop** down for about 2 seconds, until the beep is heard. During performance of the Reset, the display shows "**P-**".

*When an error occurs, generally the appliance manages the anomaly itself: in this case the alarm code flashes on the display until the problem has been dealt with: NO **RESET** COMMANDS ARE ACCEPTED during this time. Any **RESET** forced by the user will not be accepted until the problem has been dealt with and the alarm code on the display is "steady".*

$$P\text{-}\qquad\qquad E\text{-}$$

fig. 4 – RESET: during the RESET the display shows " P- ". At the end of the RESET cycle, " E- " appears on the display.

2.7   SEPARATE DRYING PHASE - TETHYS D60 SERIES ONLY

Users can also select a **SEPARATE DRYING CYCLE** by pressing button **2 - Drying Decrease** for 2 seconds: *"PdrY"* appears on the display.

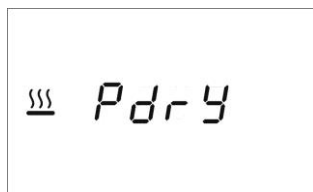$$\underline{\underline{\text{\small)))}}}\quad PdrY$$

fig. 5 – Display screen: separate drying program.

2.8   PREPARING THE LOAD FOR WASHING AND DISINFECTION

Loading instructions are provided in compliance with 5.4.4-k of IEC61010-2-040:2005.
The load for processing must be arranged appropriately on the most suitable supports for machine-washing.

Before placing the instruments and the other items in the load in the specific baskets, any large residues must be removed by soaking, treatment or rinsing. Do not overload the washing baskets to ensure effective mechanical action of the water across the entire surface. Do not stack items in the load. Instruments which can be dismantled must be prepared and stowed as instructed by the manufacturer

WASHING SUPPORTS - TROLLEYS
The appliance comes without washing trolleys. Refer to the washing trolley manuals for guidance on their correct use. Contact you dealer for advice about the washing trolleys best suited to your needs.

*Avoid direct, repeated contact with dirty material. Always take the greatest care and use suitable personal protection equipment, both before and after treatment. **Before processing instruments, check on the manufacturer's instructions that the items are approved for automatic treatment in the Instruments Washer and also the recommended maximum washing temperature.***

3   SETUP MODE

The appliance has setup procedures for modifying its operating parameters.
The setup mode is accessed by pressing button **5 - Functions** button and requires a password.
For reasons of security and responsibility, 4 levels of password are available for access to more and more complex functions:
1.   USER Level (**1111**)
2.   SUPERUSER Level (provided by the installation engineer)

3. ENGINEER Level
4. FACTORY Level

This short-form manual does not provide a detailed description of the setup functions; only the procedure for changing the date and time is described. Refer to the full-form operator's manual for details.

3.1 ACCESSING THE SETUP MODE / ENTERING THE PASSWORD

a. Hold button *5 - Functions* down for 5 seconds. 4 dashes appear on the display.
b. Use the *Selection* buttons *4 and 8* to modify the individual characters of the password.
c. Press button *5 - Functions* quickly to move on to the next character
d. Once the 4 characters of the password have been entered, confirm by holding down button *3 - Start/Stop*.
e. Once the Setup mode has been accessed, the various items available can be scrolled using button *5 - Functions*.
f. To quit the SETUP mode, hold down button *7 - Open door*.

The **items** accessible from the **SETUP** menu are shown in the table below. To move on from one **item** to the next, press button *5 - Functions* quickly.

Setup Item	Description
Set	Appliance parameter setup - detailed explanation provided in full-form operator's manual.
Cloc	Time and date - explanation follows.
Filt	**Drying filter counter. (Only appears on Tethys D60)** Press the **Start/Stop** button to display the **number of absolute filter hours left before the maintenance message appears.** The initial default setting is 500. The value is in units. (Display only parameter, cannot be modified).
Tec	Appliance operating hour counter for maintenance. Press the **Start/Stop** button to display the **number of cycles left before the maintenance message appears.** The initial default setting is 900. The value is in units. (Display only parameter, cannot be modified).
Coun	Appliance total operation counter (display only parameter, cannot be modified).
PrEn	Setting which allows display and selection only of the washing programs actually of interest. (function introduced from firmware version 4.6.xx.yy).

3.2 "CLOC" – DATE AND TIME PARAMETERS

The **"Cloc"** parameter allows the **current time and date to be modified.** This parameter can be modified with the user password.
1. To select the **Cloc** parameter, hold down button *3 - Start/Stop* with **"Cloc"** on the display.
2. Use the *Selection* buttons *4 and 8* to modify the value of the parameter.
3. Press button *5 - Functions* quickly move from one parameter to the next.
4. Hold down *button 3 - Start/Stop* to confirm the modification
5. Hold down button *7 - Open door* to quit the parameter being modified and the **Cloc** function.

During modification, the parameter concerned flashes.

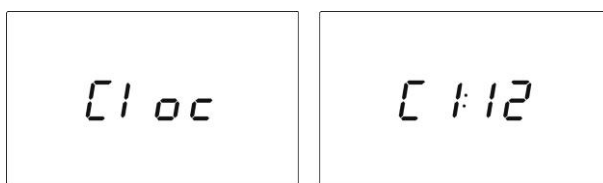| PARAMETER	DESCRIPTION	PARAMETER	DESCRIPTION
C1	Year, last two figures (00-99).	C4	Hour (1-24)
C2	Month (1-12)	C5	Minutes (0-59)
C3	Day (1-31)	C6	Seconds (0-59)

*fig. 6 – **Cloc** parameters Hold down the **Start/Stop** button to access the parameters. Parameter **C1** sets the current year.*

4   COMMISSIONING INSTRUCTIONS

Once the appliance has been installed correctly, it must be prepared for use:
- Set the current date and time.
- Fill up with regenerating salt.
- Add detergent and neutralising agent and any other chemicals.
- Run program "16 Service", preferably twice in succession, to operate the peristaltic pumps and prime the detergent inlet lines correctly.

4.1   USING THE WATER SOFTENER

The appliance is equipped with a water softener which removes the substances that cause hardness from the inlet water.
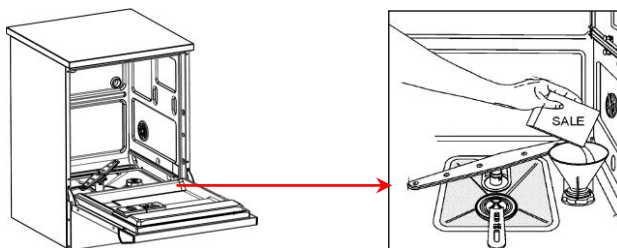

fig. 7 – The salt tank is accessible with the door open; filling the softener tank with regenerating salt.

The softener tank contains **about 1 kg of coarse salt.** The salt tank is in the bottom of the inside of the instruments washer chamber. **Remove the bottom basket, unscrew the cap** of the tank by turning it anticlockwise and **pour in the salt** using the funnel supplied; take care not to spill salt in the tank. Remove any salt residues before screwing the cap back on.

> **ATTENTION**
> *The first time the instrument washer is used, a litre of water must be poured into the tank with the salt.* *Whenever the tank is filled, always take care to ensure that the cap is firmly closed.* *The mixture of water and detergent must not get into the salt tank, as this would impair operation of the regeneration resins.*
> *Only use coarse salt for domestic dishwashers. Do not use cooking salt.*
> *Fill up with salt when necessary before starting a washing program*, so that any excess salt solution will immediately be removed; if salt water is left to stand inside the tank, it may cause corrosion. Carry out a prewash cycle to prevent this if necessary.

4.2   USING DETERGENT AND NEUTRALISING AGENT

The appliance is equipped with detergent dispensing appliances, depending on the model in use (refer to the technical data of the relevant model).
1. **Pump P1,** dispensing of neutral or weak alkaline liquid detergent
2. **Pump P2**: dispensing of acid neutralising agent.
3. **Pump P3**: always optional, never installed by default. Auxiliary detergent pump.

DISPENSING DEVICE	Tethys D60 - Tethys T60	Tethys T45
P1	●	●
P2	●	●
P3	○	-

Key: ● feature installed, ○ optional feature, - feature not available for installation

> **ATTENTION**
> *If the can level sensors are not fitted: check the levels of product in the cans / bottles to ensure that programs are not performed without detergent or neutralising agent.*
> *During installation, **or when a completely empty drum of product is replaced,** run program no. 16 **SERVICE** to charge the system with liquid. The pipeline from the drum to the pump must be filled to ensure that the product is dispensed properly during subsequent washing cycles.*

4.2.1   LIQUID DETERGENT INTAKE SYSTEM

A - Configuration with LEVEL SENSOR (standard on **Tethys D60**, optional on Tethys T60, Tethys T45).
1. **Suction nozzle with integral level sensor** and tapered rubber support for fitting onto the can.
2. Silicone hose for connection between intake pipe and peristaltic pump.
3. Detergent intake filter, fitted directly on the suction nozzle pipe.

B - STANDARD configuration for Tethys T60, Tethys T45:
1. one **stainless steel intake pipe**, for drawing in detergent from the can;

2.　a support, a conical rubber fitting, for positioning the intake pipe correctly;
3.　the silicone hose for connection between stainless steel intake pipe and peristaltic pump.
4.　Detergent intake filter, fitted directly on the stainless steel pipe.

⚠️ **WARNING**
The label on the intake pipe must correspond to the type of detergent being used. *Refer to the following colour code:*
P1 -　White/clear: alkaline detergent
P2 - Red: acid neutralising agent
P3 - Blue: optional additive
Connection errors reduce the effectiveness of the process and may damage parts of the circuit. Detergent intake system connection errors lead to the loss of Warranty cover for the parts concerned.
The intake pipe is supplied complete with intake filter. Make sure that the filter is always fitted and correctly positioned to keep the detergent dispensing system in good working order. Check regularly that the silicone hose is properly fixed to the stainless steel intake pipe and that there are no leaks.
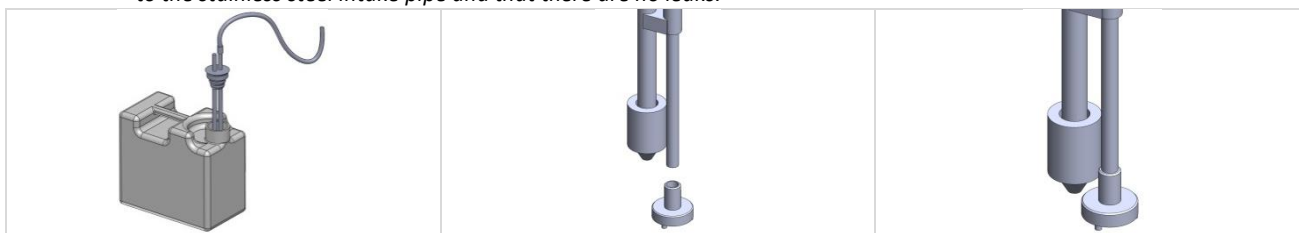

fig. 8 – Detergent intake STANDARD Tethys D60 configuration. Fitting the detergent intake pipe to the can. Fit the rubber cap over the top of the can for a perfect, secure connection. The pipe is supplied complete with intake filter.

4.3　RECOMMENDED DETERGENTS

One fundamental factor for a good washing process is the type of detergents used.
The manufacturer guarantees excellent washing results with the use of the recommended products.

📝 *ATTENTION*
Always comply with the INSTRUCTIONS provided by detergent PRODUCERS, especially with regard to the
RECOMMENDED DOSES, *the correct TEMPERATURES for their use and **STORAGE** instructions. Safety information about doses supplied in compliance with 5.4.4.s of IEC61010-1-040. Refer to the product instructions and technical safety data sheets.*

GENERAL PRECAUTIONS FOR DETERGENTS

⚠️	**HANDLE DETERGENT CANS WITH CARE** *Detergents may be TOXIC. Refer to the product safety data sheets.* *Once a product has run out, replace the empty can with a full can of the same product.* *If the product left in the old can is poured into the new one, take care not to overfill the new cans to ensure that they will not overflow when the suction nozzles are inserted. Gloves must be worn during any handling of detergents.Information supplied in compliance with 5.4.3.m, 5.4.4.n and 5.4.4.q IEC61010-2-040:2005*
📝	**DETERGENT SAFETY DATA SHEETS.** *Detergent SAFETY DATA SHEETS must be kept: close to the place where detergents are stored, close to the appliance, in an easily accessible location. The latest versions of the safety data sheets should be requested regularly (e.g. once a year). Safety data sheets will be supplied by your dealer on request. Refer to safety data sheets for first aid procedures in the event of accidental contact with detergents.*
🗑️	**DISPOSAL** *Information supplied in compliance with point 5.4.4.L of IEC61010-2-040:2005.* *DISPOSAL of any product residues and containers (cans and bottles): refer to the "DISPOSAL ADVICE" section of product safety data sheets. The appliance's responsible authority must dispose of detergent residues and containers in accordance with the relevant national or local legislation.*

5   ALARMS and WARNING MESSAGES

⚠	*The symbol on the left appears as a LED on the display to indicate an **alarm.** The appliance has detected an anomaly. The list of all the alarms is provided in the full-form operator's manual.*
📝	*The way alarms are indicated on the display depends on their gravity. The appliance distinguishes between:* *- "FATAL ALARMS", the message which appears is "**AF**" followed by the alarm number.* *- "NON FATAL ALARMS" are warning messages and not malfunctions; the display shows "**A-**" followed by the alarm number. Press the "Start/Stop" button to continue using the appliance.*

📝	***IF AN ALARM OCCURS***
	First check for water leaks around the appliance; if there are leaks: turn off all water supply taps and contact the after-sales service.
	*When an alarm occurs, the appliance automatically tends to set itself in conditions of safety: **the alarm code flashes on the display** until the problem has automatically been dealt with: **NO RESET COMMANDS ARE ACCEPTED during this time.** Any RESET forced by the user will not be accepted until the problem has been dealt with and the alarm code on the display is "steady".*
	
	***RESET PROCEDURE** for **AF** alarms (alarm code steady on the display):*
	    *1. Perform the **RESET** cycle.*
	    *2. If the alarm message disappears after the **RESET** cycle: normal use of the appliance can be restarted by switching it off and back on with the **On/Off** button.*
	    *3. If the alarm message persists after the **RESET** cycle: switch the appliance off and back on using the "**On/Off**" button and by **disconnecting it from the electricity supply** (Wait at least 10 seconds after switching off before switching back on again).*
	    *4. If the alarm occurs when the appliance is restarted: retry the **RESET**.*
	
	If the alarm persists even after the RESET procedure:
	    1. Turn off the water supply taps.
	    2. Disconnect the appliance from the electricity supply.
	    3. Check that all the appliance's connections (electricity and water) are correct and there have been no changes from the initial installation conditions.
	    4. Contact the After-Sales Service.

6   CLEANING AND MAINTENANCE

⚠ *Before doing any work: disconnect the power supply and turn off the water intake taps.*
*A **space of approx 1m² is required in front of the appliance** for cleaning and maintenance to be carried out without difficulty.*
*Changing the electricity supply cable: Use only genuine parts, **type FROR 450/750** with the same gauge as the cables mounted in the factory must be used (cables are marked with their types and characteristics). This replacement may only be made by authorised technical staff.*
*Any work done on the appliance by **unauthorised staff** is not covered by the warranty and is performed under the user's responsibility.During maintenance and cleaning: if appropriate, use **personal protection equipment**.*

6.1   CLEANING THE APPLIANCE AND ITS PARTS

Refer to the full-form operator's manual for details of appliance cleaning procedures: recommended frequency and methods to be used.

☣ ***WARNING***
Filters may contain biologically contaminated material and must be handled with due care, using protective equipment (e.g. gloves, protective glasses, lab coat). The potentially contaminated material in the filters and any other components of the device must be handled and disposed of appropriately.

6.2   IF THE APPLIANCE IS TO BE OUT OF USE

The procedure is recommended for **periods of 24 hours or more** out of use.
- Perform the PREWASH program with the appliance empty.
- If contaminated materials are processed: run a program with a thermal disinfection Td phase with no load in the appliance.
- Disconnect the electricity supply.
- Leave the door slightly open to prevent unpleasant odours from forming inside the washing chamber.
- Turn off the water intake taps.

6.3   REUSING THE APPLIANCE AFTER A PERIOD OUT OF USE

If the appliance has been unused for a long time, before starting a cycle, follow these recommendations.

- Inspect the filters at the ends of the water intake hoses and check that no sludge or rust has deposited in the pipelines; if this has occurred, allow water to run from the water supply tap for a few minutes.
- Restore the electricity supply (if disconnected).
- Reconnect the water supply hose and turn on the tap.
- Run PROGRAM 1, or another program with a **thermal disinfection**, with no load for processing.

A thermal disinfection cycle should be performed before using the appliance if it has been out of use for 24 hours or more.
WARNING: after 24 hours of inactivity, the device automatically proposes a self-disinfection cycle 93°C. The display shows "PdIs". It is advisable to run the program without load, no load inside the washing chamber.

6.4   TROUBLESHOOTING

Refer to the full version of the operator's manual for the countermeasures to be taken in the event of malfunctions or if deterioration in the appliance's performance is noticed even without the triggering of alarm signals.

6.5   ROUTINE INSPECTIONS AND MAINTENANCE

The full version of the operator's manual, available on CD, contains details of the maintenance procedures recommended every day, every week and every six months.

In addition: contact your nearest authorised service centre to have the appliance **completely checked over** at the end of the warranty period and annually for successive years, or, if this occurs before the end of the year, when the **"Appliance maintenance"** LED illuminates.

Maintenance operations are not covered by the product Warranty, which does not include the replacement of components which deteriorate due to normal wear and tear.

WARNING
The manufacturer declines all responsibility in the event of malfunctions or damage arising from the failure to comply with the above recommendations.

INFORMATION AND ASSISTANCE
(ref. par 5.4.1 IEC 61010-1:2001).

FOR ANY REQUEST FOR TECHNICAL SERVICE FOR THE PRODUCT,
WHETHER IN OR OUT OF WARRANTY,
DIRECTLY CONTACT THE TECHNICAL SUPPORT DEPARTMENT
OF THE DEALER OR RESELLER
THAT SUPPLIED THE PRODUCT.

For more information: MOCOM S.r.l. Via Saliceto, 22 - 40013 Castel Maggiore (BO) Italy
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