smeg

PROFESSIONAL DISHWASHER

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SMEG Thanks you for choosing one of its products.

Read all the instructions in this manual carefully to become familiar with the right conditions for the proper use of your dishwasher.

TECHNICAL INSTRUCTIONS



These are intended for the qualified staff who are to install, commission and test the appliance and carry out any servicing and repairs.

INSTRUCTIONS FOR THE USER



These provide recommendations for use, a description of the controls and the correct procedures for cleaning and maintaining the dishwasher.

1 PRECAUTIONS FOR SAFETY AND USE

1.1 Trademark

SMEG

Manual edition

19390501502	20/01/2015
Manual Ed.	**Date**

1.2 Name and address of manufacturer or distributor

Smeg S.p.A.
Via Leonardo da Vinci, 4 - 42016 Guastalla (RE) Tel. +39 0522 8211 - Fax + 39 0522 821453
internet: www.smegfoodservice.com, email : fooddservice@smeg.it

Info :
INFORMATION AND SERVICE FOR SMEG PROFESSIONAL DISHWASHERS
Our Sales Department staff will be able to provide you with information about prices and special offers.
Our After-Sales Department will be able to provide you with guidance about keeping your appliance functioning correctly and put you in touch with your nearest authorised Service Centre. Our entire product offering can be viewed at:

1.3 Declaration of conformity to product standards

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. WHEN DECOMMISSIONING THE APPLIANCE COMPLY WITH THE LOCAL WASTE DISPOSAL REGULATIONS. FOR FURTHER INFORMATION ON THE TREATMENT, RECOVERY AND RECYCLING OF THIS PRODUCT, CONTACT THE COMPETENT LOCAL OFFICE, THE DOMESTIC WASTE COLLECTION SERVICE, OR THE SHOP WHERE THE PRODUCT WAS PURCHASED. THE APPLIANCE MUST BE GROUNDED AS REQUIRED BY ELECTRICAL EQUIPMENT SAFETY STANDARDS. THE DISHWASHER IS INTENDED FOR PROFESSIONAL USE ONLY AND MUST ONLY BE USED BY AUTHORISED STAFF. IT IS DESIGNED TO WASH TABLEWARE (PLATES, CUPS, BOWLS, OVEN DISHES AND CUTLERY) AND SIMILAR ITEMS IN THE RESTAURANT AND INSTITUTIONAL CATERING SECTOR, AND COMPLIES WITH THE INTERNATIONAL STANDARDS ON ELECTRICAL AND MECHANICAL SAFETY (CEI-EN-IEC 60335-2-58/61770) AND ELECTROMAGNETIC COMPATIBILITY (CEI-IEC-EN 55014-1/-2,

61000-3;4, 50366). THE MANUFACTURER DECLINES ALL RESPONSIBILITY FOR INJURY OR DAMAGE CAUSED BY FAILURE TO COMPLY WITH THE ABOVE REGULATIONS OR DERIVING FROM INCORRECT USE, TAMPERING WITH EVEN JUST ONE PART OF THE APPLIANCE AND THE USE OF NON-ORIGINAL SPARE PARTS.

	**THIS MANUAL IS AN INTEGRAL PART OF THE DISHWASHER AND MUST ALWAYS BE KEPT INTACT TOGETHER WITH THE APPLIANCE.**
	POSITIONING, HOOKUP, COMMISSIONING, TROUBLESHOOTING AND REPLACING THE POWER CABLE **MUST BE CARRIED OUT BY QUALIFIED STAFF.**
	**THE APPLIANCE MUST BE GROUNDED** AS REQUIRED BY ELECTRICAL EQUIPMENT SAFETY STANDARDS.
	**THE SYMBOL OF THE RUBBISH BIN WITH A BAR ACROSS IT** ON THE PRODUCT OR IN THE TECHNICAL DOCUMENTATION INDICATES THAT THIS PRODUCT MUST NOT BE TREATED AS ORDINARY DOMESTIC WASTE BUT MUST BE CONSIGNED TO THE SPECIAL COLLECTION POINT FOR THE RECYCLING OF ELECTRICAL AND ELECTRONIC EQUIPMENT.
	**NEVER PLACE SOLVENTS SUCH AS ALCOHOL OR TURPENTINE**, WHICH MIGHT CAUSE AN EXPLOSION, INSIDE THE APPLIANCE. NEVER LOAD DISHES DIRTY WITH ASH, WAX OR PAINTS.
	**NEVER USE THE DISHWASHER OR ANY PART OF IT AS A LADDER, SUPPORT OR STAND FOR PEOPLE,** ANIMALS OR ANY OBJECT. LEANING OR SITTING ON THE OPEN DOOR OF THE DISHWASHER MIGHT CAUSE IT TO TIP OVER, PUTTING PEOPLE IN DANGER. NEVER LEAVE THE DISHWASHER DOOR OPEN SINCE PEOPLE MIGHT TRIP OVER IT.
	**DO NOT DRINK ANY WATER LEFT** IN THE DISHES OR DISHWASHER AT THE END OF THE WASHING PROGRAM.
	**THE APPLIANCE IS NOT SUITABLE FOR USE BY JUVENILES OR PERSONS WITH REDUCED PHYSICAL, SENSORIAL OR MENTAL CAPACITIES,** OR THOSE WITHOUT THE NECESSARY KNOWLEDGE AND EXPERIENCE. SUCH PERSONS MAY ONLY USE THE APPLIANCE UNDER THE SUPERVISION OF A PERSON RESPONSIBLE FOR THEIR SAFETY.

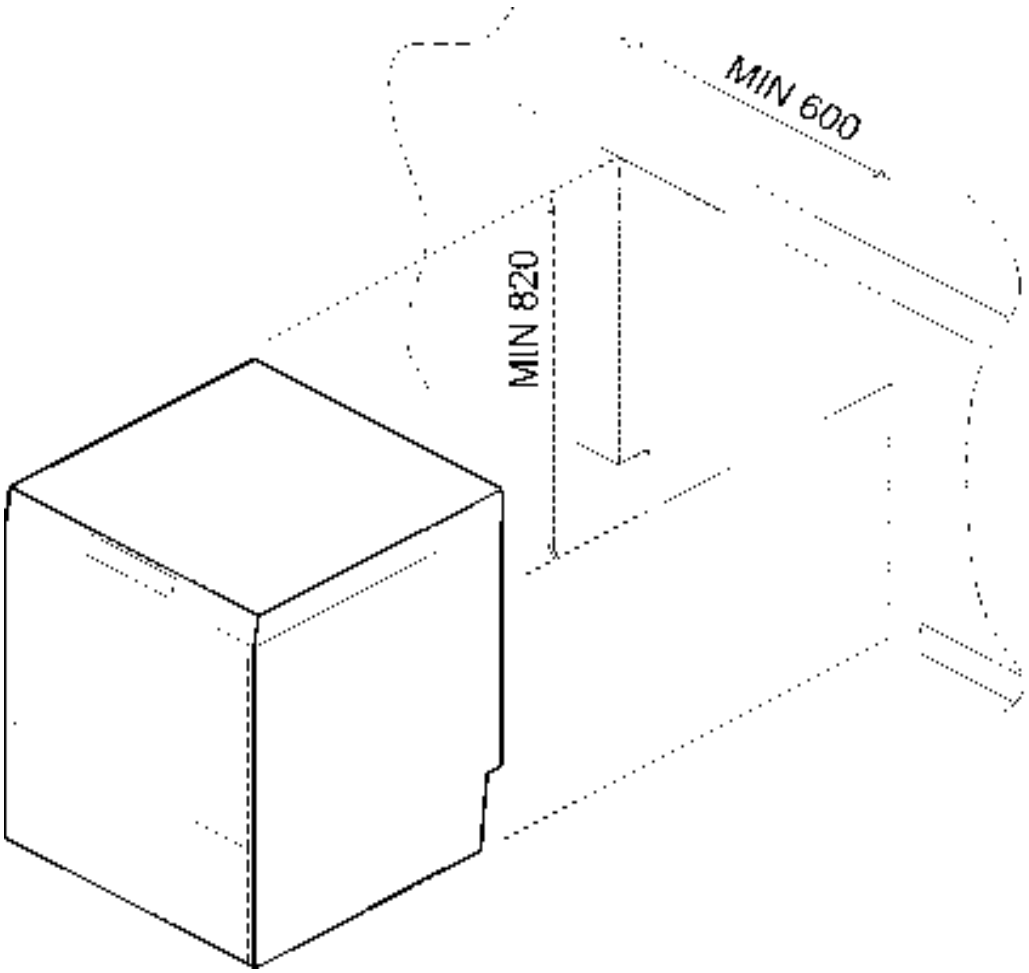
2 TECHNICAL DATA

		Single-phase	Three-phase
	kPa (bar)	100-600 (2 ÷ 6)	100-600 (2 ÷ 6)
Water intake temperature	°C	15°C – 60°C	15°C – 60°C
Intake water hardness (models with softener)	°df	15° - 60°	15° - 60°
Intake water hardness (models without softener)	°df	12°	12°
Rinse cycle water consumption	l	3	3
Boiler capacity	l	6	6
Tank capacity	l	11	11
Standard cycle duration with intake water at 50°C	s	120/150/180	90/120/180
Noise level	dB(A)	< 50	< 50
Degree of protection	IPX	CW = 4 - CWH =5	
Net weight	Kg	CW = 52/55 - CWH =82/89	
Power supply cable type	◄HAR►	H07RN-F	H07RN-F

SEE APPLIANCE LABEL							
VOLTAGE	**FUSE PROTECTION**	**TANK HEATING**	**MOTOR**	**BOILER (1.5X3)**	**TOTAL CONNECTION**	**MAXIMUM POWER ABSORPTION**	**POWER CABLE**
400V-50Hz/3/N/PE	13A	1.1kW	0.7kW	5kW	5.7kW	11A	5X4
230V-50Hz/3/PE	20A	1.1kW	0.7kW	5kW	5.7kW	16A	5X4
230V-50Hz/1/N/PE	25A	1.1kW	0.7kW	3,3kW	4.0KW	18A	3X4
230V-50Hz/1/N/PE	13A	1.1kW	0.7kW	1.7kW	2.4kW	11A	3X2.5

SEE APPLIANCE LABEL							
VOLTAGE	**FUSE PROTECTION**	**TANK HEATING**	**MOTOR**	**BOILER (1.5X3)**	**TOTAL CONNECTION**	**MAXIMUM POWER ABSORPTION**	**POWER CABLE**
230V-50Hz/1/N/PE	20A	1.1kW	0.7kW	2.8kW	3.4kW	16A	3X2.5

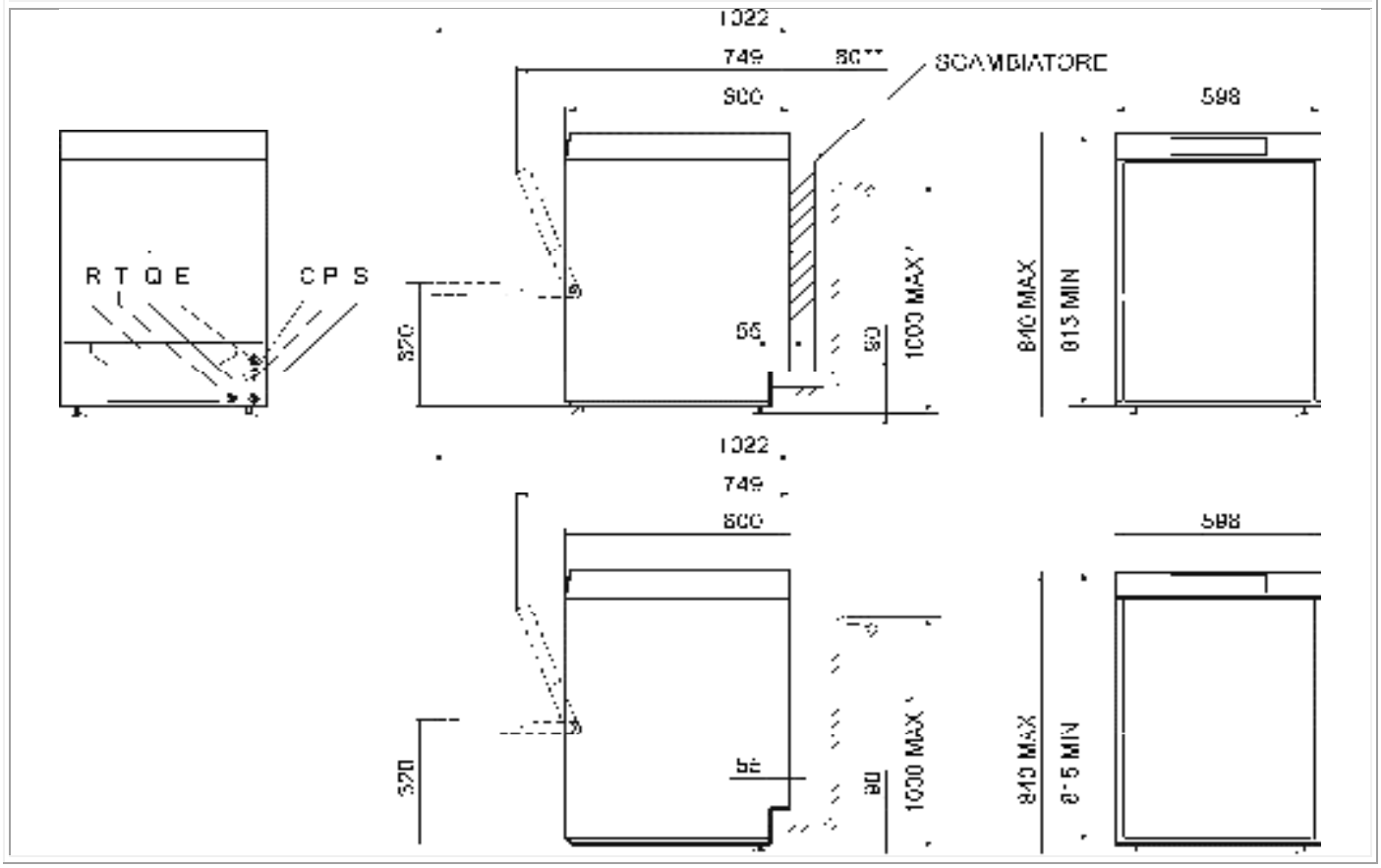
CAVITY DIMENSIONS FOR BUILT-UNDER INSTALLATION



APPLIANCE DIMENSIONS AND CONNECTION POSITIONS

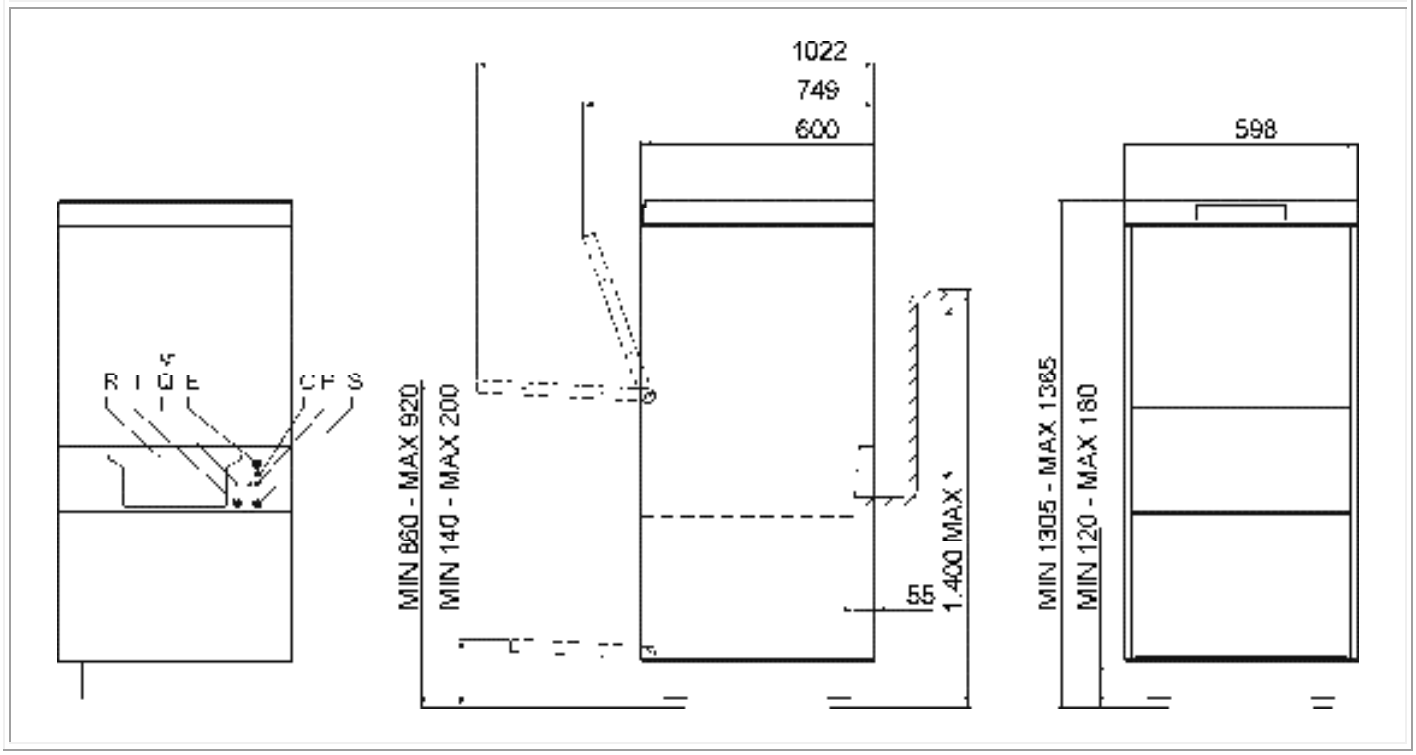
(* N.B.: distance “1000” - max 600 if siphon with valve is used)

(**N.B.: distance “60” - with heat exchanger)



APPLIANCE DIMENSIONS AND CONNECTION POSITIONS

(*NB – VALUE “1400” WITH ASTERISK: max 1000 if siphon with valve is used)



KEY TO LETTERS USED IN DIAGRAM	
R	LOWER BACK PANEL
Q ⏚	EARTH TERMINAL
P	PERISTALTIC PUMP HOSES
E	ELECTRICITY SUPPLY CABLE
S	DRAIN HOSE
T	FILLER HOSE
C	EXTERNAL DISPENSER POWER SUPPLY CABLE ENTRY POINT

3 INSTALLATION AND POSITIONING

INSTALLATION and POSITIONING

Bring the dishwasher to the installation site, remove the packaging and check the appliance and components for damage; any damage found must be reported to the transporter in writing. The packaging components (plastic bags, expanded polystyrene, nails, etc.) must not be left within reach of children and pets since they are potentially dangerous. All packaging materials used are environment-friendly. They can be kept without constituting any hazard, or may be disposed of at a specialist waste disposal centre. The plastic components suitable for recycling are marked as follows: PE polyethylene: external packaging film, bag containing the instructions, protective bags. PP polypropylene: straps. PS expanded polystyrene: corner guards, top of packaging. Wooden and cardboard components can be disposed of in accordance with the relevant regulations.

When the product is decommissioned it must not be dumped in the environment; it must be disposed of in accordance with the relevant regulations. All metal parts are in stainless steel and can be removed. The plastic parts are marked with the symbol identifying the material used.

POSITIONING

⚠ **Warning:** the indoor system and premises in which equipment for institutions is installed must comply with the relevant regulations.

The manufacturer declines all liability for direct or indirect injury or damage deriving from failure to comply with these regulations. Before installation, check that there are no objects or materials in the vicinity which may be damaged by steam or splashes of washing solution, or that any such items are suitably protected. Place the dishwasher in the chosen point and remove the protective film. Level the dishwasher (with the aid of a spirit level) on its adjustable feet to ensure that it is stable; all other mounting solutions must be approved by the manufacturer.

4 INSTRUCTIONS FOR TECHNICAL STAFF

4.1 Plumbing hookup

	**PLUMBING HOOKUP**
	The water pipelines and electricity supply cable lead out of the bottom right-hand corner of the appliance. Connect the water intake hose to a connector with **¾" gas** threaded fitting, fitting the filter A provided (in models with Acquastop, the filter and ring-nut form a single unit). The connection to the water mains must only be made with new hoses; the use of old or worn hoses is not permitted.

FOR MODELS WITH A WATER SOFTENER
an 'approved' double check valve or some other no less effective device providing backflow prevention protection to at least fluid category two shall be fitted at the point of connection between the water supply and the fitting or appliance.

FOR MODELS WITHOUT A WATER SOFTENER
an 'approved' single check valve or some other no less effective device providing backflow prevention protection to at least fluid category two shall be fitted at the point of connection between the water supply and the fitting or appliance.

The dynamic **water supply pressure** must be between **1 and 6 bar**; if it is higher, installation of a pressure reducer is necessary. If the pressure is **less than 2.5 bar** it might be necessary to fit a special pump on the appliance to ensure optimal performance. **Contact the After-Sales Service.** It is essential to fit a main stop tap on the water intake deliver pipeline; the tap must be accessible after installation of the appliance, so do not install it behind the dishwasher. The stated cycle duration applies to appliances supplied with **hot water >50°C<60°C.** If the dishwasher is supplied with cold water, the cycle duration might increase depending on the intake water temperature. **Drainage:** The dishwasher **is fitted with a drain pump** and can operate with drain connections on the floor or wall. Refer to the connection diagram for the maximum permitted height of wall drains – (see TECHNICAL DATA)

	**Warning:** make sure that the intake and drain hoses are not bent, constricted or crushed after installation.

When installing the drain hose to a siphon with valve, the maximum height of the drain outlet is reduced to 600 mm.

4.2 Electrical connection

	**The dishwasher** and any additional equipment **must be connected to the electrical system** by authorised, skilled staff, in accordance with the relevant regulations; also comply with the technical instructions for the connection. The total rated power is stated on the appliance's technical data plate. The electrical protection devices fitted for the dishwasher must serve this appliance only. The user must have **a master switch and a differential safety breaker, with rating suitable for the appliance's characteristics,** installed **on the electricity supply line** in accordance with the relevant regulations. These switches must be installed close to the dishwasher, be easily accessible after installation, and provide complete disconnection from the electrical mains in overvoltage class III conditions.
	**Warning!** The dishwasher is always powered up unless the master switch is turned off.
	Connect the appliance to the user's earth system. The ⏚ terminal for the connection is in the bottom right-hand corner of the appliance. The earth wire (PE) is yellow-green in colour, the neutral wire (N) is blue and the live wires (L1, L2, L3) are black, grey and brown. In the event of single-phase connection (230V-1N~), the connection to the electrical mains **must** be made using a cable with plug **compliant with the relevant regulations.**
	**THE POWER SUPPLY CABLE, IF FITTED, MUST BE REPLACED BY THE MANUFACTURER OR AN AUTHORISED SERVICE CENTRE IN ACCORDANCE WITH THE TECHNICAL DATA SPECIFIED ON THE WIRING DIAGRAM SUPPLIED WITH THE APPLIANCE, TO PREVENT ALL RISKS.**

5 FIRST START-UP

First start-up

The electrical protection system must undergo a functional test before the appliance is put into operation.
The appliance must be installed and/or inspected by qualified staff, who will start it up for the first time and provide the relevant operating instructions.

Preparing for use (important)

The rinse aid dispenser is fitted on all models, the detergent dispenser only on some.
If both dispensers are present put the external detergent and rinse aid containers in place and insert the respective intake hoses on the rear of the appliance into them. Red hose: detergent, blue hose: rinse aid



Before inserting the hoses into the containers, fit the weights (needed to ensure that they always draw in liquid from the bottoms of the containers) and the filters onto their ends as shown. If the detergent dispenser is not factory-fitted, it can be retrofitted after ordering the relative kit.

As an alternative an external dispenser can be fitted, making the electrical connection by means of an H05 RN-F 2x0.5 mm electrical cable, which can be laid along the route shown in the TECHNICAL DATA diagram and connected as shown in the wiring diagram supplied with the dishwasher. The dispenser must operate on 230V/50 Hz with maximum power absorption of 15 W. Connect to the detergent dispenser outside the dishwasher using the red hose mentioned above.

IMPORTANT

Whenever the type of detergent or rinse aid is changed, it is ABSOLUTELY ESSENTIAL to flush out the peristaltic pumps by placing the external intake pipes in water for a few cycles. Always use only products specifically recommended for use in a professional dishwasher. Failure to comply with this recommendation leads to **forfeiture of the warranty** entitlement on the appliance's water system. The **internal pipes** of the detergent and rinse aid peristaltic pumps **should** be replaced by the After-Sales Service **every 12 months** or **15,000 wash cycles**.

5.1 Using the water softener (on models with this feature only)

The quantity of lime in the water (which indicates its hardness) causes whitish marks on dry dishes and dishes also tend to lose their shine over time. The dishwasher is equipped with an automatic water softener which removes the substances that cause hardness from the water with the aid of regenerating salt.

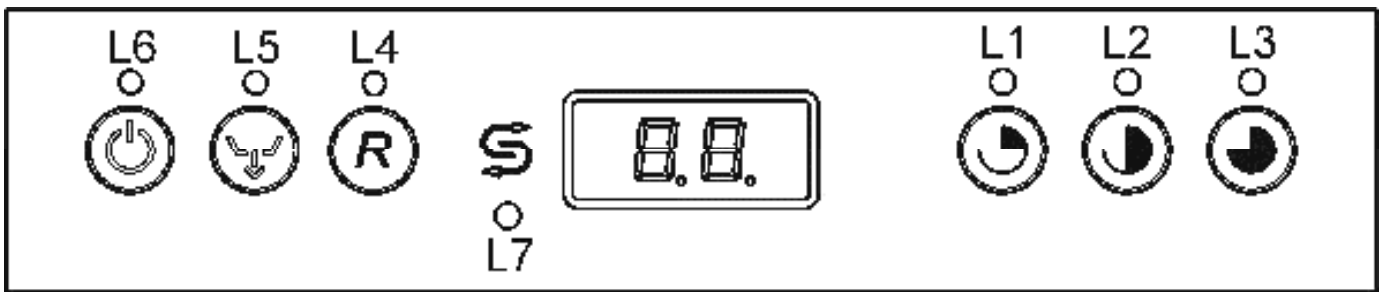


The first time the dishwasher is used, a litre of water must be poured into the tank with the salt. Whenever the tank is filled, always take care to ensure that the cap is firmly closed. The mixture of water and detergent must not get into the salt tank, as this would impair operation of the regeneration system. In this case warranty cover will be forfeited.

6 SET-UP (Authorised technical staff only)

	Set-up During first start-up, the functions/parameters listed below must be set or adjusted.

Control Panel



Key to Symbols

	On/off button
	Total pump-out (tank -boiler) button
	Regeneration button (only if softener is fitted)
	Regenerating salt symbol (only if softener is fitted)
	Short programme button
	Medium programme button
	Long programme button
L1	Short programme Led
L2	Medium programme Led
L3	Long programme Led
L4	Resin regeneration Led (only if softener is fitted)
L5	Drainage Led
L6	Appliance on Led
L7	No salt Led (only if softener is fitted)

Key to messages which scroll across display

CLOSE	Close the door
FILL	Machine preparing for cycle
End	End of operation requested
PrF 500	Appliance model (displayed when the appliance is switched on with the master switch).
UnLoad	Pump-out

Using the buttons

Button	Short press	Pressed for 2”	Pressed for 5”	Long press, release, press again
	Display of temperatures in Boiler (L3) and tank (L1)	On/OF		Setup Menu (1)
	Scroll through Setup options (2)	Set Pump-out	Start Pump-out	
	Set Regeneration (mod. with softener only)	Start Regeneration		
	Set Short Programme	Start Short Programme		
	Set Medium Programme	Start Medium Programme		
	Set Long Programme	Start Long Programme		
	Set P0	Empty tank	Start P0	Start Test (1)
		Peristaltic pumps in Manual mode to prime pipes		Reset to DEFAULT parameters (3) Technician user only

1) Starting from appliance in **“OF”** status
2) From setup menu only.
3) Restores the default parameters, for new settings see point (6.3)

A series of operations can be carried out when the dishwasher is first installed to customise it to the user's requirements.

6.1 Contents of display

The two digits provide the following information:

- Appliance off but powered up: all decimal points on both digits
- Appliance on and ready for use : Tank temperature
- Washing phase (programme running, washing pump in operation): Tank temperature
- Rinsing phase (programme running, washing pump stopped): Boiler temperature
- Programming phase: See parameter programming section
- Error message: See error messages section

6.2 Note on display of temperatures

Temperatures shown on the display might not indicate the actual temperature in the tank and/or boiler during heating - wait about 1’ after the heating elements switch off to see the real temperature.

6.3 Parameter programming procedure

To modify the parameters, proceed as follows starting with the appliance in **“OF”** status

1) switch the appliance using the On/OF button
2) hold down the button for about 4/5 seconds, until Led L6 goes out and then lights up again, then release the button and press it again.
3) Press the pump-out button to scroll through the parameters for modification
4) Modify the parameter by pressing button P1
5) During setup operations, Led L1 indicates that the display is showing the description of the parameter, while Led L3 indicates that its value is being displayed (the two alternate)
6) Select the other parameters for modification in the same way and proceed as described above
7) After setting all the appliance parameters, press the button to quit the setup function.

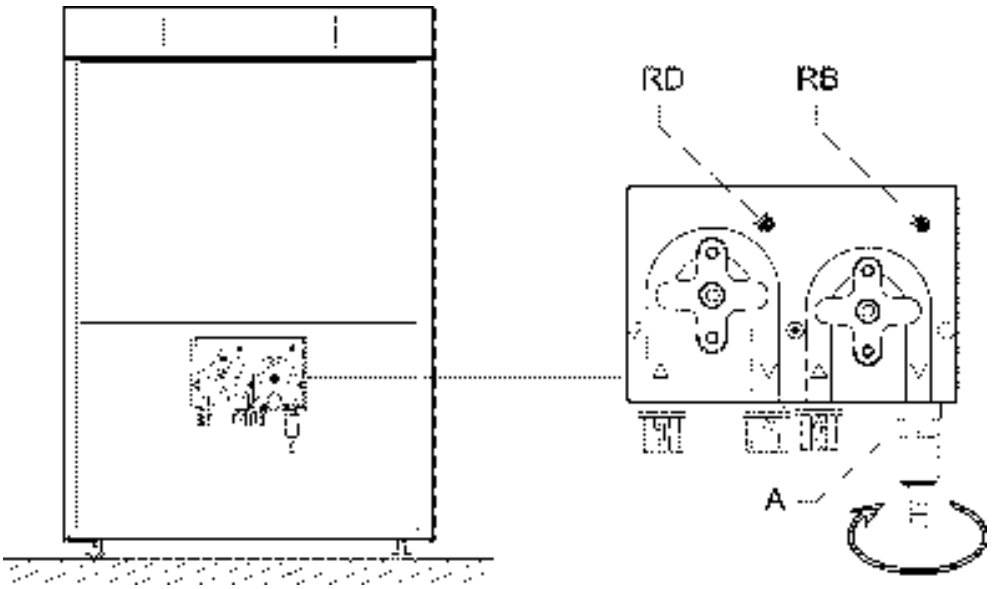
6.4 Modifiable parameters

This table lists the model choice or programme and temperature option parameters.

Display	Settings available	Description
°b	From 85° to 71°	Boiler temperature
°t	From 62° to 52°	Tank temperature
St	On - OF	Auto-start: washing programme starts when door is closed On enabled OF disabled
HA	H0 – H6	Water hardness setting (see table 6.8)
TS	On - OF	Thermostop On enabled OF disabled
Sr	-	Access Service menu (for Authorised Engineer only)

6.5 Adjusting detergent and rinse aid dispensing

WARNING:
Ensure that the appliance is not powered up - **ELECTRIC SHOCK HAZARD**



RD: Detergent dispensing regulator screw (**OPTIONAL**)
RB: Rinse aid dispensing regulator screw

Important! If the pump does not deliver rinse aid, check the valve inside **"A"**: unscrew anti-clockwise.
RD/RB: Adjustments must be made using the adjuster screw as explained. The quantity dispensed is reduced by turning anticlockwise and increased by turning clockwise.

6.6 Starting the peristaltic pumps in manual mode – rapid filling of detergent and rinse aid circuit

With the dishwasher powered up and the tank full, press the  buttons simultaneously for 5”
The peristaltic pumps continue to operate until one of the 2 buttons is pressed again; the lights remain on as long as the pumps are running. The display shows **“r d” .** Bear in mind that the rinse aid peristaltic pump fills the circuit in about 7 minutes, while for the detergent it only takes 2 minutes. So draw only rinse aid from the jerry cans (1 for the rinse aid and the other for the detergent) for the first 5 minutes and then also take in detergent for the last 2.

6.7 Adjusting the regeneration frequency (models with softener only)

See appliance setup menu (point 6.4)

	With values over 60°dF an external water treatment device must be used and the regeneration frequency must be set at H0

6.8 Mains water hardness setting table

This table shows the relationship between the intake water hardness and the quantity the resins are able to treat; regeneration is required once the appliance has performed the set number of cycles. Regeneration cycle duration: 12 minutes.

Hardness (°dH German degrees)	**Hardness (°dF French degrees)**	**Setting level**	**Resin regeneration interval: approximate number of wash cycles**
Regeneration off	Regeneration off	H0	
8.5	15	H1	81
11	20	H2	69
17	30	H3 default	42
22.5	40	H4	24
28	50	H5	19
33.5	60	H6	11

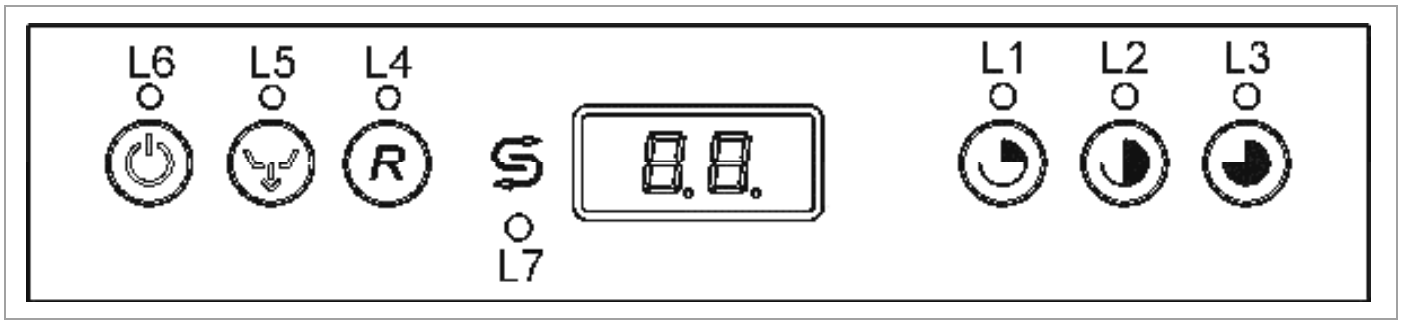
7 MALFUNCTIONS SHOWN ON THE DISPLAY (FOR THE TECHNICIAN)

The dishwasher is able to identify a number of malfunctions and show them on the display. If the problem persists after the dishwasher has been switched off and back on, proceed as described below:

Er 04	Tank temperature probe malfunction	Tank temperature probe disconnected or not working.
Er 05	Tank water filling malfunction	The tank does not fill within the allowed time: check water intake tap, dynamic pressure in intake system, cleaning of water intake filter, possible damage to water intake hose or cleaning of rinsing nozzles. If the problem persists during **"FILL"**: - tank level switch failure. (always on empty: check whether tank safety pressure switch is tripped). - leak from pipe connected to air trap: if problem persists, check during working programme. - drain line vent valve fouled: tank empties completely at end of a wash programme due to siphon effect.
Er 06	Water pump-out malfunction 	Inspect the filters for dirt and check that the drain hose is not blocked, bent or crushed. Check that the drain pump is not blocked by dirt by removing the insert on the sump (from inside the tank). If it persists, check in this order: - with tank empty: constant "tank full" reading: tank pressure switch faulty or leak from connections of air trap connection pipe (water entering pipe) - with tank full: drain pump has failed
Er 23	Boiler does not heat up as expected.	The problem might occur because water is continually entering the tank (the causes are as for **"Er 05"** – see above) If the boiler heating element is damaged, this might be due to operation with no water in the boiler - the pressure switch is indicating full even with the boiler empty: - damaged boiler heating element - contactor failure - open on boiler safety thermostat side. - boiler temperature probe faulty or incorrectly positioned - motherboard relay failure, Important: If the boiler heating element is damaged, this might be due to operation with no water in the boiler, pressure switch continues to give full reading even with boiler empty: check boiler air trap and/or relative pressure switch and replace if necessary.
Er 24	Boiler temperature probe malfunction	Boiler temperature probe disconnected or not working
Er 25	Boiler water filling malfunction	The boiler does not fill within the allowed time: check water intake tap, dynamic pressure in intake system, cleaning of water intake filter, possible damage to water intake hose or check, in this order: - boiler pressure switch has failed (continuous empty reading). - pipe leaking/disconnected (water entering pipe) – item **"rp"** in service menu not set correctly
Er 26	Boiler emptying malfunction	- check that rinsing spray arm nozzles are clean - boiler pressure switch has failed (continuous full reading) - pipe leaking/disconnected (water entering pipe) - rinsing pump not working
Er 27	Boiler emptying malfunction – with tank full Or boiler full signal on models without rinsing pump	Boiler pressure switch has failed (continuous full reading) if appears when rinsing pump is not present; presence of boiler pressure switch: check setting of item **"rp"** in service menu **"rp"**=on for models with rinsing pump **"rp"**=of for models without rinsing pump

8 INSTRUCTIONS FOR THE USER

8.1 Control panel



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Key to messages which scroll across display

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UnLoad	Pump-out

Using the buttons

Button	Short press	Pressed for 2”	Pressed for 5”
	Display of temperatures in Boiler (L3) and tank (L1)	On/OF	
			Start Pump-out
		Start Regeneration	
		Start Short Programme	
		Start Medium Programme	
		Start Long Programme	
	Set P0		Start programme P0: emptying of tank to clean filters. Switch off and back on to allow reuse.

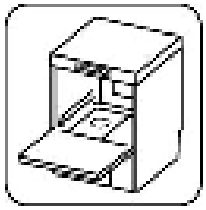
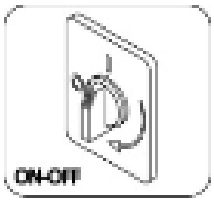
8.2 Before washing

⚠	Use only detergents and rinse aids for industrial dishwashers. Do not use detergents intended for hand washing. We recommend the use of Smeg products, specially developed for this dishwasher.
⚠	When topping up the tanks, take care not to swap the products; this might damage the dishwasher and cause malfunctions.

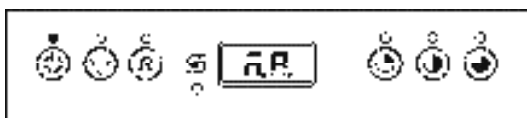
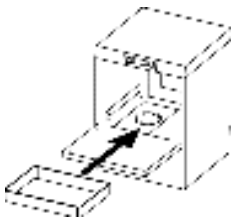
Do not mix different detergents; this would damage the dispenser device. **Failure to comply** with this recommendation leads to **forfeiture of the warranty** entitlement on the appliance’s water system.
Industrial dishwasher detergents may cause serious irritation. Comply carefully with the instructions provided by the detergent producer on the pack.

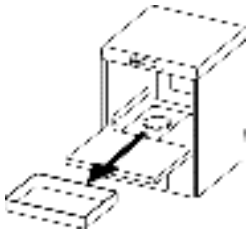
Check

	1. Turn on the mains water tap (user)
	2. The level of detergent and rinse aid in the containers.

	3. That there is regenerating salt in the relative container (if fitted).
	4. That the filters are in place, the spray arms rotate, and there are no foreign bodies in the dishwasher.
	5. Switch on the master switch (user): the decimal points of both digits appear on the display.

8.3 First use each day (tank and boiler empty)

Display shows	Actions and what happens
	**Door closed and master switch on ON:** Press ⏻ and hold it down for 2/3 seconds; the ON/OF Led and the two digits on the display light up.
	With the door closed, filling of the tank begins. The word **"FILL"** scrolls across the display and the Led on will be that of the latest program set. The display shows **"End"** when the tank is full.
	Load the dishes and close the door.
	Select the program required by holding down one of the three buttons required for about 2"; the Led of the program flashes. While washing is in progress the display shows the water temperature in the tank. During rinsing, it shows the boiler temperature.
	At the end of the program the program Led comes on and "**End**" scrolls across the display

	Unload the dishes

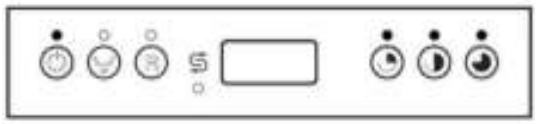
When the door is closed again, the system offers the last program run.

8.4 Choosing the program

			Single-phase	Three-phase
SYMBOL	**PROGRAM**	**TYPE OF DIRT**	**DURATION (*)**	**DURATION (*)**
	Short	Glasses and cups	2”	1.5”
	Medium	Glasses, cups and plates with light dirt	2.5”	2”
	Long	Very dirty dishes and cutlery	3”	3”

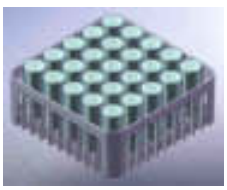
(*) The cycle duration stated above is guaranteed if the appliance is connected to hot water > 50°C <60°C
If the dishwasher is supplied with cold water, the cycle duration might increase depending on the intake water temperature and the "Thermostop" setting.

8.5 Changing the program

	If the master switch is not turned off, the appliance sets on the last programme performed. To change it, press the key of the program required; the Led comes on.
	To confirm hold down for about 2”. The Led starts to flash and the washing programme starts.

If a programme is already running, it can be changed by first switching the appliance to pause status (by pressing one of the  buttons for 2”) and then selecting the programme required.

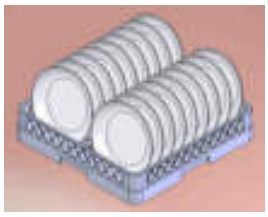
Glasses

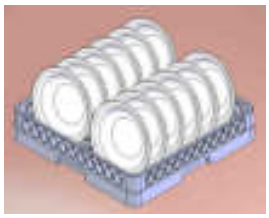
	Load glasses upside down.

Cutlery

Use the basket provided. Load cutlery loose, preferably with the handle at the bottom, taking care not to injure yourself with fork prongs or knife blades.

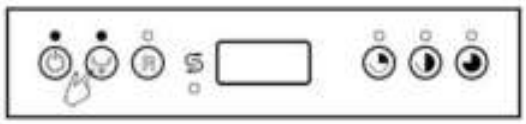
Plates



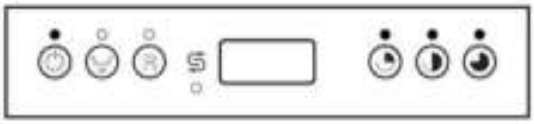


Plates
The basket is able to take **12** soup plates or **18** dinner plates.
Remove solid residues (bones, fruit peel, stones, etc.) and first soak plates with dried residues of cheese, egg, etc. in water.

TOTAL PUMP-OUT AT THE END OF THE DAY



Press the pump-out button for about 5", the Led flashes and the pump-out and automatic tank cleaning phase starts. The word **"UnLoad"** scrolls across the display. If the Led does not flash, the program has not been started and the boiler heating element is not on.



When pump-out is complete the appliance switches off (only 2 dots lit on the display)

After a total pump-out the filters should be cleaned as described in the relevant point.

Never switch the dishwasher off with water in the tank; always pump out first. Models with softener: if the set number of cycles (see point 6.8 of the "technical manual") is reached, regeneration is carried out as well as the pump-out; the entire process lasts about 15', after which the appliance switches off automatically.

Resin regeneration (for models with water softener)

Once the set number of wash cycles (see point 6.8 of the "technical manual" is reached), the Led above the button flashes. Therefore, during the working day resin regeneration must be carried out, following the procedure described below. There are 2 regeneration modes.



1) ON REQUEST
Press the button for 5" to start regenerating; the Led flashes and the regeneration phase starts. It lasts about 10 minutes, during which time the Led keeps flashing. (Regeneration cannot be interrupted).



2) AT THE END OF THE DAY
Start the total pump-out and the appliance will perform regeneration before emptying.



When pump-out is complete the appliance switches off (only 2 dots lit on the display)

Topping up with regenerating salt (for models with softener)

Warning: use only salt of the specific type, do not use cooking salt.
Salt must be added when the Led underneath the symbol shown in the box on the left lights up. Top up with salt **when there is no water in the tank** to prevent washing water from getting into the water softener device. The salt tank has a capacity of about **1 kg of coarse-grained salt**. The salt tank is in the bottom of the appliance's tank. After removing the basket, undo the cap and pour the salt in using the funnel supplied. Remove any salt residues around the opening before screwing the cap back on.

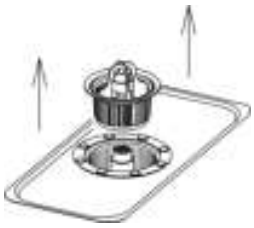
9 MAINTENANCE AND CLEANING

Although no particular scheduled maintenance is required, users are advised to have the dishwasher checked by a specialist technician twice a year.
N.B.: the manufacturer accepts no liability for wilful damage or damage deriving from carelessness, neglect, failure to comply with instructions, regulations and standards or incorrect connections, which lead to forfeiture of warranty cover. If possible, leave the door ajar when not in use; Clean surfaces thoroughly and often with a damp cloth; use neutral, non-abrasive detergents which do not use chlorine compounds, which corrode and damage stainless steel. Do not use the products mentioned above even when cleaning the floor underneath or in the vicinity of the dishwasher, as vapours or drops may damage the steel surfaces.

The dishwasher has **IPX4/5** protection but pointing water jets straight at it for cleaning is **forbidden**

9.1 Daily cleaning of filters

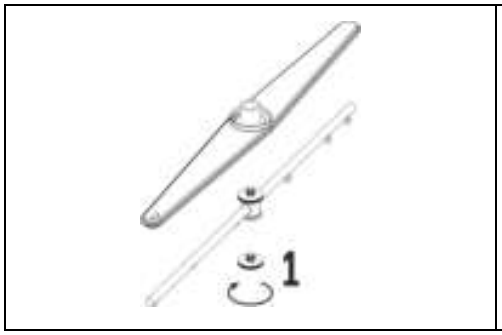
Cleaning the filter at the end of each working day

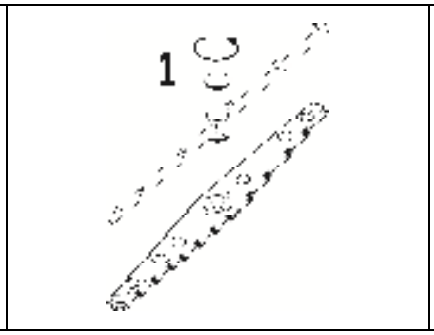


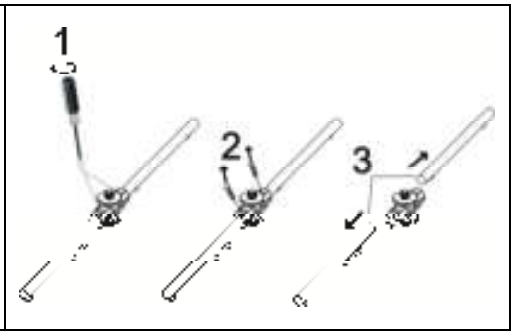
Remove the filters (simply lift them out as shown here), taking care that no large residues fall into the sump underneath. Clean them to remove residues and rinse with plenty of water, then put them correctly back in place; **do not use sharp or pointed tools.**
Clean away any limescale deposits to prevent excessive build-ups;

9.2 Routine inspection of the spray arms (once a week)

Remove the washing and rinsing (top and bottom) spray arms by unscrewing the central ring-nut 1; remove the parts of the rinsing spray arms 3 by taking out the screws 2 with a screwdriver as shown below. **Do not unscrew the nozzles.** Clean the holes and nozzles under a jet of clean running water; **do not use tools which might cause damage.** Reassemble the spray arms with care.







Clean the outside of the appliance with a damp cloth and neutral soap, rinsing and drying thoroughly.

9.3 Lengthy periods out of use

If the dishwasher is to be out of use for a fairly long period of time, **the detergent and rinse aid dispenser devices must be emptied to prevent crystallisation and damage to the pumps:** Remove the intake hoses from the detergent and rinse aid containers and place them in a container of clean water, then perform a few wash cycles followed by a complete pump-out. Finally, turn off the master switch, close the water intake valve and leave the door ajar until the interior is completely dry. The detergent and rinse aid intake hoses must be put back into the containers when the dishwasher is returned to service, **taking care not to swap them over** (red hose = detergent, blue hose = rinse aid).

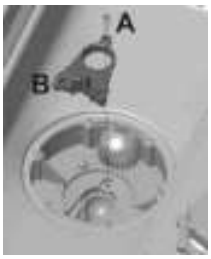
10 TROUBLESHOOTING

How to deal with any problems without calling the after-sales service

PROBLEM	POSSIBLE CAUSE	POSSIBLE REMEDY
Led 6 does not light up	Mains power failure	Check electrical mains connection.
Washing program does not start	The dishwasher has not yet finished filling.	Wait for the end of the **"FILL"** phase
Poor washing results	Spray arm washing holes blocked by dirt or limescale	Remove spray arms and clean them (routine checks).
	Filter fouled	See "Cleaning the filter during the day"
	Too little or unsuitable detergent or rinse aid.	Check type and quantity of detergent.
	No or not enough detergent or rinse aid being supplied: detergent or rinse aid not being taken from the relative container.	Check that the intake filter is not fouled. If you are unable to solve the problem, call the after-sales service.
	Plates/glasses badly arranged	Arrange plates/glasses correctly.
	Low washing temperature	Check tank temperature shown on the display, call the after-sales service if less than 50°C
	Inappropriate programme set	Increase wash programme duration, especially if dirt has dried on.
Inadequate rinsing	Dynamic pressure of mains water insufficient Spray arm nozzles fouled Limescale in boiler	Check mains water pressure. Check that water intake filter is not fouled. Clean rinsing nozzles. If you are unable to solve the problem, call the after-sales service.
Stains on glasses and cutlery	Rinse aid unsuitable or not being delivered correctly. Water hardness above 12°f or large amounts of dissolved salts	Check container of rinse aid and whether it is suitable for the type of mains water. If the problem persists, contact the after-sales service.
Water in tank after pump-out	Drain hose incorrectly positioned or partially obstructed.	Check that the dishwasher hose and drain are unobstructed and the drain is not too high up; see connection diagram.
Dishes not properly dried	Low rinsing temperature due to Thermostop OF and/or water intake temperature below 50°	Check that the water supplying the appliance is at least at 50° Rinse aid being delivered properly If the problem persists call the after-sales service.

11 MALFUNCTIONS SHOWN ON THE DISPLAY (FOR THE USER)

The dishwasher is able to identify a number of malfunctions and show them on the display. If the problem persists after the dishwasher has been switched off and back on, proceed as described below:

ERROR	POSSIBLE CAUSE	POSSIBLE REMEDY
Er 04	Tank temperature probe malfunction	Contact the After-Sales Service
Er 05	Tank water filling malfunction	Check that the water intake tap is on and the dynamic pressure in intake system, inspect water intake filter and clean if necessary. If the problem persists, contact the After-Sales Service.
Er 06	Water not pumped out of tank. 	Inspect the filters for dirt and check that the drain hose is not blocked, bent or crushed. Check that the drain pump is not blocked by dirt by removing the insert on the sump (from inside the tank) If the problem persists: - with the tank empty: tank pressure switch defect (the contact is locked on full) - with tank full: drain pump has failed If the system fails to pump out because the drain pump is fouled (as a result of incorrect filter positioning), proceed as follows: Bale out the dishwasher with a basin and disconnect it from the electrical mains. Unscrew the screw **A**, release the tang **B** and lift it. Check that the impeller of the drain pump underneath the cover turns freely, and is free from dirt, limescale residues, or pieces of glass. Never use tools, screwdrivers, scissors, etc. If the problem persists, contact the After-Sales Service.
Er 23	Boiler heating malfunction (does not heat up)	Contact the After-Sales Service.
Er 24	Boiler temperature probe malfunction	Contact the After-Sales Service.
Er 25	Boiler water filling malfunction	Check that the water intake tap is on and the dynamic pressure in intake system, inspect water intake filter and clean if necessary. If the problem persists, contact the After-Sales Service.
Er 26	Boiler emptying malfunction	Check that the rinsing spray arm nozzles are not fouled If the problem persists, contact the After-Sales Service.
Er 27	Boiler emptying malfunction – with tank full	Contact the After-Sales Service.

The information in this manual s provided for guidance only. The contents and the equipment described may be subject to change without notice

Les information continues dans ce mode d'emploi ne sont publiée qu'à titre informatif. Ces informations et l'appareil décrit peuvent faire l'objet de modifications sans aucun préavis

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