

WAREWASHING



Utensil washer **PROFI UXTH**

UXTH-10A
UXTLH-10A
UXTLHB-10A

DSN: UX-15-01
From SN: 86 64 10001

Installation and Operation Instructions

*(Translation of the original operating
instructions)*

EN

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Publisher

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Product disclaimer

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1 Notes on the documentation

1.1 Application

This document contains the most important information for the installation and commissioning of the machine by qualified personnel, as well as the information required for day-to-day operation by the operator.

- ▶ Keep the operating instructions and all referenced documents in a safe and accessible place.
- ▶ If you sell the machine, pass on the installation and operating instructions.

1.2 Layout of the documentation

Referenced documents are all instructions that describe the installation, operation, maintenance and repair of the device, as well as additional instructions for all accessories used.

For the operator:

- Comic Card (brief instructions)
- Operating instructions

For the specialised tradesman:

- Installation instructions
- Service Manual
- Service Software Manual
- Trouble shooting list
- Circuit diagram
- Spare parts catalogue

1.3 Representation convention

1.3.1 Symbols used

Symbol	Meaning
	Warning of hazardous electrical voltage
	Beware of explosion

Symbol	Meaning
	Warning of risk of crushing
	Beware of hazardous substances
	Beware of hand injuries
	Beware of slipping
	Beware of hazard area
	Useful additional information and tips

1.3.2 Representation in the text

Representa- tion	Meaning
NOTE	Important information on machine operation, not a warning notice
▶	Step
↳	Outcome/result
–	Listing 1st level
•	Listing 2nd level

2 Safety instructions and regulations

2.1 Safety instructions and warning notices

- During machine operation, observe the general safety instructions and warning notices that precede each action.

2.1.1 Hazard levels

The hazard level is part of the safety instructions and is denoted by the signal word. Potential consequences are differentiated by the choice of signal word.

	imminent danger: results in serious physical injury or death
	potentially hazardous situation: can cause serious physical injury or death
	potentially hazardous situation: can cause minor physical injury
	potentially harmful situation: can cause damage to the product or other objects

2.1.2 Layout of warning notices

Warning notices are depicted with warning symbols and signal word in the corresponding safety colours.



CAUTION

Nature and source of the hazard

Explanation on the nature and source of the hazard

- Measures for averting the hazard
- additional measures for averting the hazard, where applicable

2.2 Basic safety instructions

2.2.1 Product safety

The machine conforms to state-of-the-art technology and the recognised safety regulations. Nonetheless, hazards may occur.

Operate the machine only if it is in perfect working order, and in

Safety instructions and regulations

compliance with the operating instructions.

All modifications and alterations to the product are reserved for persons authorised by HOBART. Configuration is password-protected.

2.2.2 Personnel qualification

- ▶ Observe the regulations on occupational health and safety.
- ▶ Carefully read through the operating instructions before use.

Activity	User group	Qualification/training
Installation/Commissioning	Qualified personnel	Authorised electrician (qualified electrician or persons who have undergone equivalent training)
	Trainees	Only under appropriate supervision and inspection
Work on the electrical system	Qualified personnel	Qualified electrician
Operation	Laymen/disabled persons	Training by the operator using the operating instructions, hazard briefing
	Children from 14 years old	Training by the operator using the operating instructions, hazard briefing, only under supervision
	Children up to 13 years old	Not permitted
Maintenance, repair	Qualified personnel	Hobart Service or Hobart trained service technicians
	Trainees	Only under appropriate supervision and inspection

2.2.3 Product-specific hazards

Avoid body parts being crushed or knocked:

- ▶ Observe the instructions on the packaging for storage, lifting or transporting.

Avoid risk of explosion:

- ▶ Do not install machine in a potentially-explosive location.

Avoid electric shock, fire hazard:

- ▶ Do not allow water to flow over live components.
 - Make sure the machine is correctly stored (see frost damage section [2.3](#)).
 - Make sure that the machine does not overflow when being filled.
- ▶ Do not damage the connection cable while unpacking.
- ▶ Have the machine connected to the power supply by qualified personnel.
- ▶ Have all modifications to the machine carried out by qualified personnel.
- ▶ Have additional feed tanks mounted by qualified personnel.

Safety instructions and regulations

- ▶ Do not operate the machine without supervision.

Avoid chemical burns, sensitisation of the skin, poisoning:

- ▶ Wear protective equipment (gloves, safety goggles, protective clothing) when handling chemicals.
- ▶ Use only suitable chemicals. Observe the manufacturer's data.
- ▶ Have chemical sensor system set by authorised trained service technicians.
- ▶ Do not open the machine during operation, wait for the program to finish.
- ▶ Disconnect the machine from the mains prior to cleaning.
- ▶ Wear protective equipment (gloves, safety goggles, protective clothing) when cleaning parts contaminated by washing solution.

Avoid burns, scalds (to the hands):

- ▶ Do not open the machine during operation or the evaporation phase, wait for the program to finish.
- ▶ Disconnect the machine from the mains prior to cleaning.

Avoid slipping:

- ✓ Moisture can build up on the machine floor.
- ▶ Provide a floor covering that is guaranteed to be non-slip in case of moisture.

2.2.4 Additional hazards

Potential hazards caused by operating resources to be used can be found in the enclosed safety datasheets. Workplaces must be signed accordingly.

2.3 Property damage

Avoid frost damage:

- ✓ Temperatures below 0°C during transport/storage cause function impairments.
- ▶ Prior to installation, store the machine at room temperature (min. 15°C) for 24h.

Avoid water damage:

- ▶ Do not operate the machine without supervision.
- ▶ Close on-site shut-off valves at the end of operation.

3 Product description

3.1 Intended purpose

The machine is an item of technical equipment intended solely for commercial dishwashing.

The machine is designed solely for cleaning crockery (porcelain, glass, ceramic, temperature-resistant plastics or stainless steel or similar) from the food industry.

Not for washing:

- Containers that do not come into contact with foodstuffs, such as ashtrays, candlesticks, electric appliances etc.
- Animals or textiles
- Foodstuffs intended for further consumption

3.2 Conformity

See separate EC Conformity Declaration.

3.3 Designation

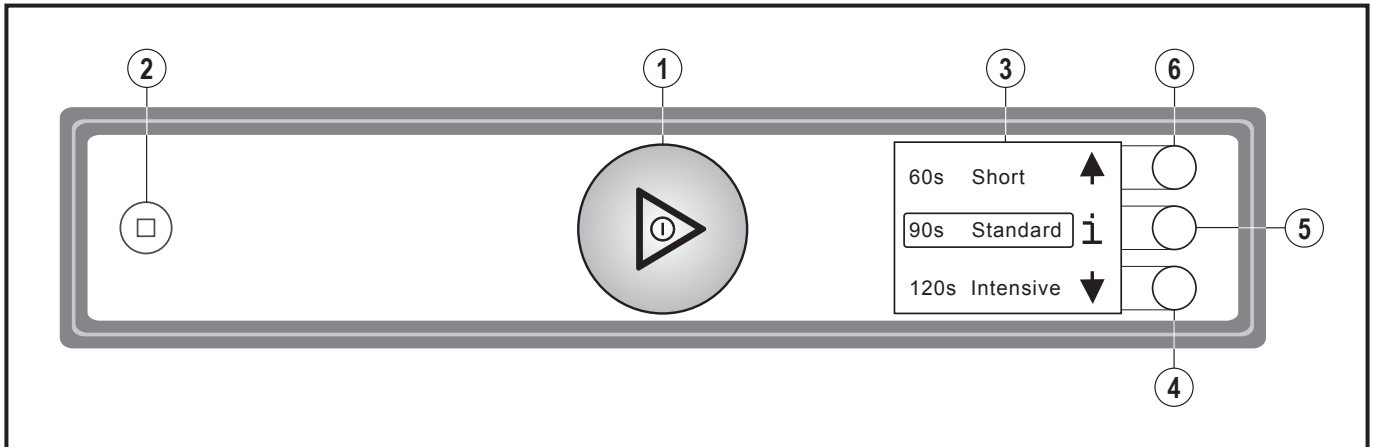
The rating plate is located on the front of the machine. If you have any questions regarding service and parts, quote the serial and DSN No.

3.4 Technical specifications

	UXTH	UXTHL
Dimensions (H x W x D)	1,732 x 1,447 x 936 mm	1,984 x 1,447 x 936 mm
Water consumption per rack	8 to 10.5 l, depending on level of soil	
Flow pressure	0.5 – 10 bar	
Cold or hot water connection	max. 60°C	
Voltage	see rating plate	
Total connected load		
Fuse protection		
Tank capacity	130 l	
Rack height	620 mm	880 mm
Emission sound pressure level L_{pA}	68 dB (A) (Measurement uncertainty $K_{pA} = 2.5$ dB)	
Weight	364 kg	415 kg

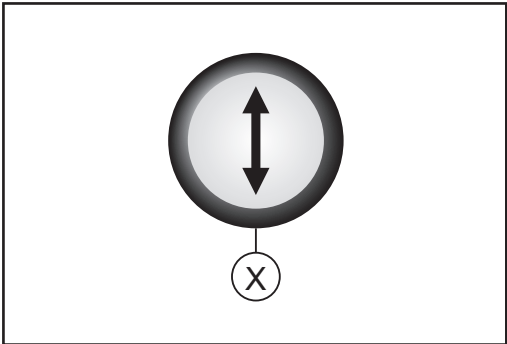
4 Controls

4.1 Controls



①	ON/OFF button	Pressing this button switches the machine on. As soon as the machine is ready for operation, the wash programme can be started by pushing this button. Pushing and holding (3 seconds) the button activates the automatic drain and self-cleaning cycle and switches off the machine automatically. After switch off, however, the machine is not voltage free! For machines with hood lift, the hood can also be opened and closed using this button. The button also shows the current operating state through different colours (see sections 4.2 and 4.3)
②	STOP button	In case of operating error or faults, the machine can be switched off immediately without the drain cycle by pressing this key. After switch off, however, the machine is not voltage free!
③	Display	Selection menu/fault and information displays
④	Display navigation button	Scroll/set/select
⑤	Display navigation button	Change menu level/confirm/back/acknowledge fault
⑥	Display navigation button	Scroll/set/select

4.1.1 HOOD LIFT button (optional)



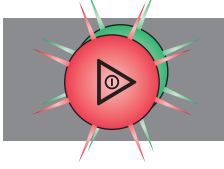
- HOOD LIFT button:**
- Pressing this button opens or closes the hood.

4.2 Operating states

In the operating panel display, the ON/OFF switch shows the current operating state through different colours.

	Machine is Off The ON/OFF button is colourless.
	Machine being prepared for operation The ON/OFF button gradually goes green. The wash tank is being filled and the machine is heating up.
	Machine ready – The ON/OFF button illuminates completely green. – The machine is ready for the next wash cycle.
	Wash program starts – The ON/OFF button illuminates completely blue.
	Machine is washing – The ON/OFF button changes segment-by-segment from blue back to completely green.
	Switch off machine – The ON/OFF button changes segment-by-segment from green to colourless. – The machine is being emptied and switched off.

4.3 Display of faults and information

	Fault: operation not possible – The ON/OFF button illuminates permanently red. – The fault is displayed. – For potential faults, see section 9.1
	Information: limited operation is possible – The ON/OFF button illuminates green/red alternately. – The information is displayed. – For potential information, see section 9.1

4.4 Display function

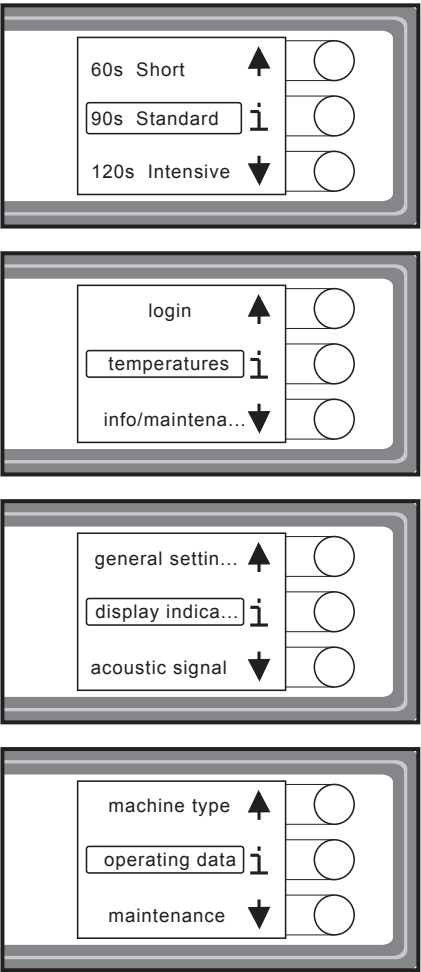
The display is activated (when the machine is turned on) by pushing the display navigation buttons or moving your hand near to the display.

On activation, the wash program selection appears first. The selected program or function is highlighted.

The function of the display navigation buttons is context-dependent and shown in the display by symbols.

Further displays/menu levels can be selected using the  button. If no button is pushed, the display de-activates again after 10s.

4.5 Overview of main menus



Program selection and info:

- Selects possible wash programs (depends on model variants)
- The ⓘ ("i") button accesses the **Login/Temperatures/Info** menu

Login/Temperatures/Info:

- Login: Operator code accesses **Operator menu**
- Temperatures: Displays tank and rinse temperatures.
- Info/maintanance: Accesses the **Info/Service** menu

Operator menu:

- Gen. settings: Accesses the machine settings
- Display indications: Accesses display settings
- Acoustic signal: Accesses the signal sensor setting
- ... see also section 8.1.

Info/Service:

- Machine type: Indicates machine type and serial number.
- Operating data: Displays operating data (see section 8.10).
- Maintanance: Displays service address.

4.6 Overview of display symbols

4.6.1 Wash cycle symbols

As an alternative to the text display, it is possible to switch to the symbol display (see section 8.6).

Symbol	Program
	Short
	Standard
	Intensive
	Continuous
	Hygiene

4.6.2 Function symbols

Symbol	Function
	Scroll menu
	Accept value
	Alter value
	Info/Service
	Login
	back
	Temperatures
	Wash/rinse temperatures
	Sound on/sound off
	Timer
	Salt deficiency
	Chemical deficiency
	Fault
	Fill fault
	Drain fault
	Heating element fault

Installation

5 Installation

5.1 Personnel qualification

Installation must only be carried out by qualified personnel (see section 2.2.2).

5.2 Special safety instructions

**WARNING****Risk of electric shock, fire hazard**

Water (frost damage, machine overflow) flowing over live components can cause injury from electric shock or fire.

- ▶ Do not allow water to flow under live components.
- ▶ Make sure the machine is correctly stored (see frost damage section 2.3).
- ▶ Make sure that the machine does not overflow when being filled.

**CAUTION****Risk of being crushed or knocked**

When being lifted or transported, the machine can overturn or fall and cause injury.

- ▶ Observe the instructions on the packaging for storage, lifting or transporting.

**WARNING****Risk of explosion**

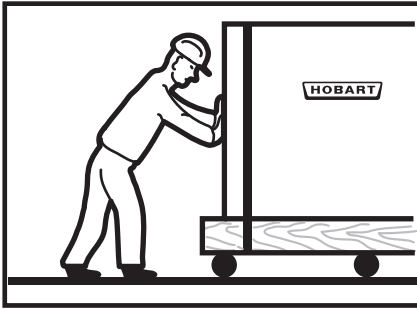
Installing the machine in a potentially explosive location can cause explosion and serious injury from ejected parts.

- ▶ Do not install machine in a potentially-explosive location.

NOTICE**Frost damage**

Temperatures below 0°C during transport/storage cause function impairments.

- ▶ Prior to installation, store the machine at room temperature (min. 15°C) for 24h.



5.3 Transporting to the installation location

- ▶ Where possible transport packed on the pallet.
- ▶ Use suitable transport means (elevating truck, crane etc.).
- ▶ If using a forklift, shim the machine with wooden trusses.

5.4 Removing the packaging



CAUTION

Risk of electric shock, fire hazard

When the machine is unpacked, the connection cable can become damaged and cause injury from electric shock or fire.

- ▶ Do not damage the connection cable while unpacking the machine.
 - ▶ Take cable measurement BGV A3.
-
- ▶ Remove packaging materials and accessories from the machine.
 - ▶ Inspect the machine for possible transport damage.

5.5 Installing the machine

Wall clearance at the rear is not required.

- ▶ Maintain wall clearance of 400 mm on at least one side of the machine.
- ▶ Align machine by turning the adjusting feet according to the spirit level.

5.6 Connecting to the power supply



WARNING

Risk of electric shock

Failure to connect properly to the power supply can cause mortal danger from electric shock.

- Have the machine connected to the power supply by an authorized technician according to the local and national codes. For Australia: in accordance with AS/NZS3500.1

NOTE: To guarantee the electrical safety of the machine, it must be connected to a protective earthing equipment conductor installed as specified. In addition, the machine must be attached on site to the equipotential bonding connection. The connecting screw (▽) provided for this purpose is located at the rear of the floor pan next to the cable bushing.

These fundamental safety requirements and the professional design of the on-site building installation must be verified by a qualified electrician.

Hobart does not accept any liability for damage caused by improper installation! Any applicable site local installation instructions must be observed!

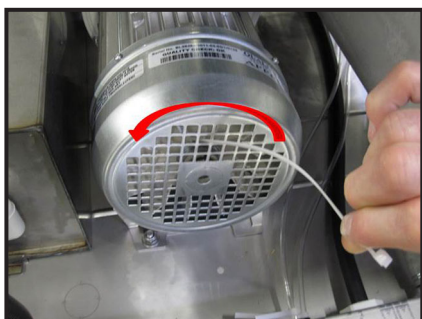
The mains cable must be connected via a cut-out device (main switch or accessible plug device).

The power supply must be consistent with the data on the rating plate.

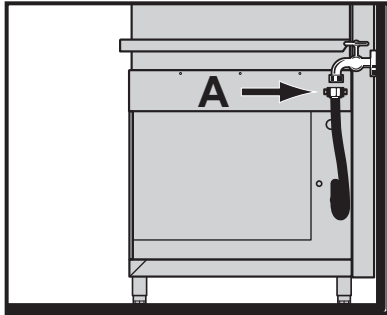
- Modification to an alternative power supply is possible as per the variants on the circuit diagram.
- Fuses and cable cross section must be designed accordingly.

To verify the correct three-phase current connection, the rotating direction of the wash pump(s) must be checked.

- Push a cable tie - approx. 3 cm deep - through the rear ventilation grille.



- Check whether the fan impeller rotates counter-clockwise (in the direction of the arrow).
- If not, interchange two of the three phase on the feed cable.



5.7 Connecting the water

NOTE: The machine must be operated with potable water.

- ▶ If possible, connect to warm water (max. 60 °C).
- ▶ Machines with drain heat recovery: If possible, connect to cold water (approx. 10 °C).

Water hardness:

- max. 3 °d = 0.53 mmol/l

Flow pressure:

- 0.5 – 10 bar
- If the flow pressure is above 10 bar: provide pressure reducing valve.
- ▶ Connect the union nut “A” (3/4” thread) of the water supply hose to the site shut off valve.
- ▶ Do not kink or cut the water supply hose.
- ▶ Any required extension must be executed using a suitable pressure hose, e.g. 324088-1.

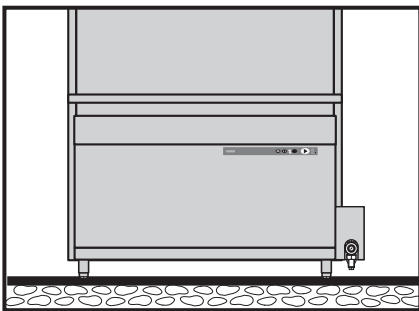
5.8 Connect steam (optional)

NOTE: On site, make sure that the permissible pressures and temperatures cannot be exceeded.



The fittings required for operation are built into the machine.

- ▶ Connect to the site steam line.



- DN 20 pipe
- Flow pressure: 0.5 - 3.5 bar
- Temperature: max. 150°C
- See rating plate!
- ▶ Dimension steam and condensate line accordingly.

Installation

5.8.1 Adjustment of manual shut-off valve

The built-in manual shut-off valve is equipped with an adjustment device to limit the flow rate of the heating supply medium. The correct adjustment is very important, particularly for higher pressures.

NOTICE

Property damage

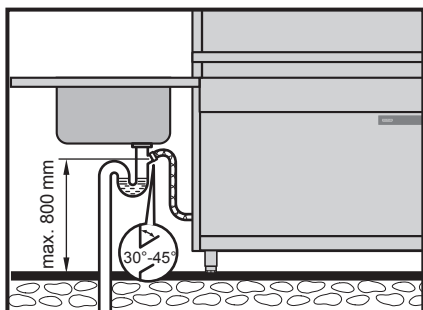
If the valve is opened too far, pressure shocks may occur when the solenoid valve closes.

If the valve is closed too far, the required heating power cannot be achieved.

- ▶ Have the adjustment made only by a HOBART-trained customer service engineer when commissioning or when the site system is modified.

Adjustment of manual shut-off valve:

- ✂ Special wrench required
- ▶ Adjust the valve seat so that when the valve is fully opened, the set temperature of the booster is maintained in continuous operation.



5.9 Connecting the drain

The connection between machine and site drain must not exceed the max. height of 0.8 m.

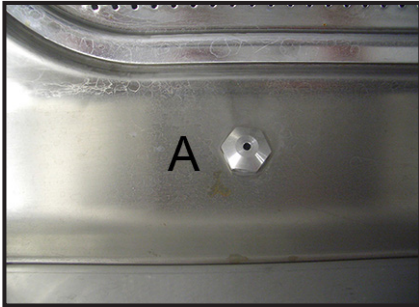
- ▶ Do not kink or lay the drain hose loose on the ground.

5.10 Connecting the dispenser

As a rule, all model variants are already factory-equipped with integrated dispensers. To convert to different dispensers, make the connection as follows.

- ▶ Drain tank.
- ▶ Turn off the site main switch or remove the plug.
- ▶ Remove frontal covering.





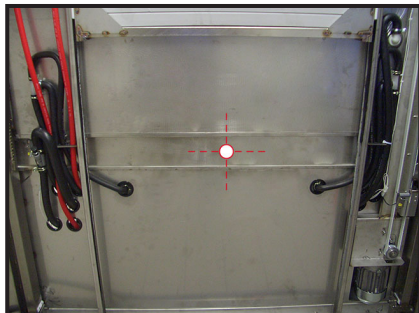
To connect liquid dispensers:

- ▶ A metering nipple is fitted at the top on the boiler for dispensing rinse aid.
- ▶ For detergent dosing, connect the hose (PVC / Ø 6 mm outside × Ø 4 mm inside) between the pressure side of the dispenser and the metering nipple (A) on the wash tank, secure with hose clamp.

- ▶ Install dispensers or mount externally.

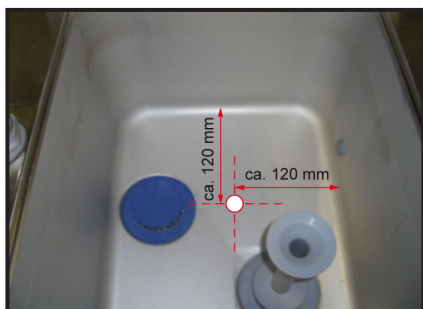
To connect a powder or solid detergent dispenser:

- ▶ Remove covering.
- ▶ Drill out the inner tank wall according to the required connection diameter.



- ▶ Screw the dosing connection tightly to the tank wall.
- ▶ Connect the plug of the cable harness to the dispenser (max. 100 VA).

Installation

***Installing the connectivity probe:***

- ▶ Conductivity probe should be installed at the flat part of tank bottom.
- ▶ Drill out the tank according to the probe diameter.

- ▶ Replace cover(s).
- ▶ Turn on site main switch or insert the plug.
- ▶ Set the dispenser and the sensor system.

6 Commissioning

6.1 Personnel qualification

Commissioning must only be carried out by qualified personnel (see section [2.2.2](#)).

6.2 Starting the commissioning procedure

When the machine is turned on for the first time, the commissioning procedure starts automatically with the language selection, followed by further requisite commissioning steps.

- ▶ Push ON/OFF button ①.
 - ↳ Display is activated.
 - ↳ **Language** menu is displayed.

6.3 Setting the language

- ▶ Push display navigation button ④ or ⑥ until the required language is highlighted.
- ▶ Push button ⑤.
 - ↳ The language is activated.
 - ↳ **Set day** menu is displayed.

6.4 Setting the date

- ▶ Push display navigation button ④ or ⑥ until the required day is highlighted.
- ▶ Confirm with button ⑤ and skip to set month.
- ▶ Repeat the procedure as described to enter month and year.
- ▶ Push button ⑤.
 - ↳ The date is activated.
 - ↳ **Set time** menu is displayed.

6.5 Setting the time

- ▶ Push display navigation button ④ or ⑥ until the required hour is highlighted.
- ▶ Confirm with button ⑤ and skip to set minutes.
- ▶ Push display navigation button ④ or ⑥ until the required minute is highlighted.

- ▶ Push button ⑤.
- ↳ The time is activated.

6.6 Filling chemical hoses



We recommend the use of HOBART Hyline detergent and rinse aid.



CAUTION

Chemical burns, sensitisation of the skin, poisoning

The use of unsuitable chemicals can cause injury.

- ▶ Use only commercial detergent and rinse aid.
- ▶ Observe the manufacturer's application and safety instructions.



WARNING

Chemical burns, sensitisation of the skin, poisoning

Filling the chemical container or chemical hoses with detergent or rinse aid for the first time incorrectly can cause serious injury.

- ▶ Wear protective equipment (gloves, safety goggles, protective clothing) when handling chemicals.

6.6.1 Provisioning external chemical canisters

During the commissioning procedure, an instruction for inserting the suction hoses into the external canisters appears in the display.

Preparing the detergent:

- ✓ Suction height of dosing pump: max. 1.5 m.
- ▶ Place suction hose **without** colour marking at the suction valve at the bottom of the external reservoir.

Preparing the rinse aid:

- ✓ Suction height of dosing pump: max. 1.5 m.
- ▶ Place suction hose with **blue** marking at the suction valve at the bottom of the external reservoir.

Filling the suction hoses:

- ▶ Push button ⑤.
- ↳ The instruction "Close the machine hood" is displayed.
- ▶ Close the hood and push button ⑤.
- ↳ Chemical hose filling is activated.

The filling process is visualised in the display by a time bar.

6.7 Completing the commissioning procedure

The machine can be started or switched off selectively.

- ▶ Push display navigation button ④ or ⑥ until the required setting is highlighted.
- ▶ Push button ⑤.
 - ↳ The setting is activated.

6.8 Starting up the chemical deficiency sensor system

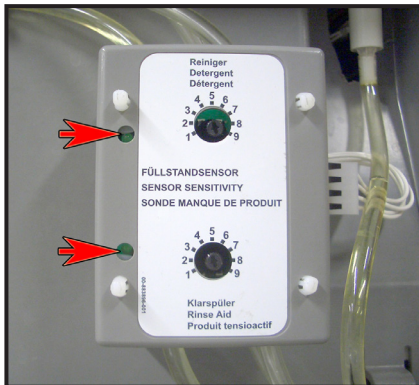


WARNING

Chemical burns, sensitisation of the skin, poisoning

Incorrect procedure when commissioning the chemical sensor system can cause serious injury.

- ▶ Have chemical sensor system set by authorised service technicians.



- ▶ Before removing the trim components, disconnect the machine from the power supply.
- ▶ Execute hose filling via the operator menu (see section 8.8).
- ▶ Observe until the sensor-operated filling of both hoses is complete.

↳ The control LEDs must now illuminate.

- ▶ If necessary, readjust the potentiometers (increase setting).
 - Factory setting for detergent = 3
 - Factory setting for rinse aid = 5
- ▶ Switch on sensor system in the service menu. Contact your HOBART Service Partner.

Operation

7 Operation

7.1 Personnel qualification

The machine must be operated by instructed personnel (see section 2.2.2).

7.2 Special safety instructions

**WARNING****Fire hazard**

Malfunction or continuous operation of the machine can cause injuries due to fire.

- Do not operate the machine without supervision.

**CAUTION****Chemical burns, sensitisation of the skin, poisoning**

If the hood is opened during operation, wash water can spurt out and cause injury.

- Do not open the hood during operation, wait for the program to finish.

**WARNING****Slipping**

Moisture can build up on the machine floor and cause slipping.

- Provide a floor covering that is guaranteed to be non-slip in case of moisture.

7.3 Preparations for washing

7.3.1 Preparing the machine

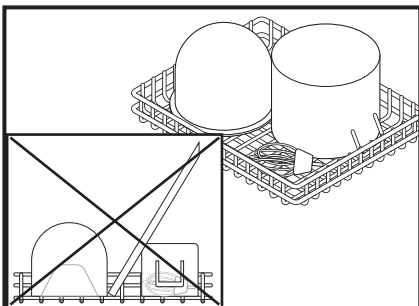
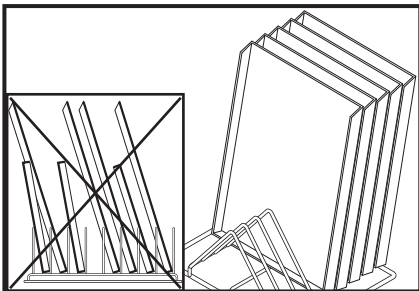
- ▶ Check correct position of wash/rinse arms and strainers.
- ▶ Open site shut-off valve.
- ▶ Turn on main switch or insert the plug.
- ▶ Check level of detergent and rinse aid containers.
- ▶ Close hood.
- ▶ Push the ON/OFF button ①.
 - ↳ Machine is switched on.
 - ↳ The tank is filled.

The ON/OFF button will become gradually green during fill and heating cycle. This process can take several minutes.

When the button becomes completely green, the machine is ready for operation.

7.3.2 Preparing the washware

- ▶ Remove large scraps.
- ▶ Remove foaming products (protein, parting agents, blood etc.).
- ▶ Pre-treat (e.g. soften) soiling that has baked-on hard.
- ▶ Place plates in the correct insert rack



- ▶ Avoid shadow zones and covers.
- ▶ Place pots and containers face down in the racks.
- ▶ Secure lightweight wash ware by attaching a rack or the special loading frame!

7.4 Displaying and selecting the program

7.4.1 Overview of programs and additional functions

Name	Description	Alternative symbol display
Short	For slight contamination	
Standard	For normal contamination	
Intensive	For heavier soiling	
Low Temp	Works at reduced temperature to prevent protein coagulation (not activated in the factory)	
Continuous	For heavy contamination	
Hygiene	(see also section 7.10)	

7.4.2 Displaying and selecting the program

The machine rinses automatically using the standard program. If necessary, a different program can be selected.

- ▶ To display the current program before the start, activate the infrared sensor in the display by hand or push the display navigation button.
 - ↳ Display is activated.
 - ↳ **Program selection and info** menu is displayed.
 - ↳ The program currently selected is highlighted.
- ▶ To switch to a different program, press the navigation button ④ or ⑥ until the required program appears and is highlighted.

The selected program can be started directly via ON/OFF button ①.

The machine continues with the last program to be selected until it is switched off.

7.5 Washing

- ▶ Slide rack into the machine and close the hood.
 - ↳ While the programme is running, the ON/OFF button gradually changes from blue back to green.
 - ↳ As soon as the ON/OFF button illuminates green again, the rinse cycle is finished.
- ▶ Open the hood and remove the rack.
- ▶ Allow the washware enough time to dry.

7.5.1 Ending a continuous program

A running continuous program can be ended prematurely as follows.

- ▶ Push the ON/OFF button ①.
 - ↳ The rinse cycle starts after a short pause.
 - ↳ The continuous program is ended.

The program also ends automatically after 20 minutes.

7.6 Special features in operation with hood lift (optional)



CAUTION

Risk of being cut or crushed

During manual operation, the hood or hood bracket may drop and cause injuries.

- ▶ During manual operation, the hood/hood bracket must be secured by a second person.
- ▶ If the racks or wash ware block the hood, for example, wait until the hood opens again automatically (after 5 seconds at the latest). If the hood does not re-open automatically, contact Service.

Preparation:

- ▶ Press the ON/OFF button ①.
 - ↳ The hood closes and the tank is filled.

As soon as filling is completed, the hood opens and the ON/OFF button illuminates green.

Washing:

- ▶ Push rack into the machine and close hood by pressing the HOOD LIFT or ON/OFF button.
 - ↳ As soon as the ON/OFF button illuminates green again, the wash cycle is finished and the hood opens automatically.
- ▶ To prevent cooling during interval times, press the HOOD LIFT

button and hold until the hood is closed.

Further hood lift functions

- Closing and opening the hood can be interrupted by briefly pressing the HOOD LIFT button.
- If the hood is not completely closed within 5 seconds (e.g. rack blocks the closing process), it is automatically stopped and re-opened (after 5 seconds at the latest).
- The hood bracket may be used manually only in case of a drive failure. For safety reasons, this must be done by 2 persons.

7.7 Switch off machine ---

- ▶ Close hood.
- ▶ Push the ON/OFF button ① for 3 seconds.
 - ↳ During pump-out, the ON/OFF button gradually changes from green back to colourless.



During the drain cycle, the machine interior is cleaned automatically. Then remove any food debris.

If the interior is sprayed out again manually with a water hose, this residual water can be pumped out again with a reduced pump-out phase by pressing and holding down the ON/OFF button (3 sec.) when the machine has been switched off.

- ✓ When the ON/OFF button has extinguished completely:
 - ▶ Turn off main switch or remove the plug.
 - ▶ Close on-site shut-off valve.



If no button is pressed, the machine switches off automatically after 6 hours, but will not pump out.

7.8 Executing daily cleaning



WARNING

Burns, scalds, chemical burns

During the cleaning process, general malfunctions with the washing, rinsing or cleaning pump or the tank heater, for example, can cause injuries from burns, scalds or chemical burns.

- ▶ The machine must be disconnected from the mains prior to cleaning.
- ▶ Wear protective gloves.

NOTICE

Property damage

The use of unsuitable agents can cause corrosion damage.

- ▶ Do not use any chloric, acidic or metal-containing additives to clean the machine.
- ▶ Do not use metal sponges.
- ▶ Open hood.
- ▶ Remove sieves and clean. **Make sure that food debris does not enter pump intake!**
- ▶ Flush the fine strainer under running water.
- ▶ Clean machine areas that cannot be reached by the water circulation of the self cleaner (hood labyrinth, rear side riser pipe, etc.).
- ▶ Replace strainer.
- ▶ Leave the hood open for ventilation.

7.9 Executing weekly cleaning

- ▶ Push and hold the clip fastener on the wash and rinse arms. Remove the wash and rinse arms and clean.
- ▶ Reinsert wash and rinse arms.

7.10 Executing hygiene cleaning

When a pre-set number of rinse cycles has been reached, the instruction "Execute hygiene program" appears in the display, indicating that an automatic hygiene clean of the machine interior should be executed.

- ▶ Before end of operation, remove the rack and place 10 HO-BART cleaning tablets in the machine interior.
- ▶ Close hood.
- ▶ Push ④ or ⑥ navigation button until the hygiene program appears and is highlighted.
- ▶ Press the ON/OFF key ①.

While the hygiene program is running (duration up to one hour, depending on model and water connection), the green illuminated segments extinguish successively.

At the end of the program, the machine switches off automatically.



If necessary, hygiene clean should be executed before the pre-set number of rinse cycles is reached. With regular use, the machine interior will remain free of food debris and deposits.

7.11 Changing the chemical product

When changing the detergent and rinse aid product, please note the following:

- Mixing dissimilar products can produce efflorescence, which in turn can cause the dispenser to malfunction. This is also the case if the new product is from the same manufacturer.
- A new product may require the dispenser to be adjusted.
- The complete system, consisting of dosing hoses and dispenser, must be rinsed with water before the new chemical is used.

Changing the chemical:

- ▶ Remove the suction valve from the reservoir and place in a container full of water.
- ▶ Rinse dosing hoses and detergent dispenser with water
 - Use the "Fill chemical hoses" function 8.8.
 - Repeat if necessary. This depends on the length of the dosing hose.
 - Place the suction lace in the reservoir together with the new product.
- ▶ To replace the water in the dosing hoses with the product, use the "Fill chemical hoses" function 8.8.

7.12 Displaying the temperatures

This menu option is for displaying the current tank and rinsing temperatures.

Procedure:

- ▶ Activate the infrared sensor in the display by hand or push one of the display navigation buttons.
 - ↳ Display is activated.
 - ↳ **Program selection and info** menu is displayed.
- ▶ Push button .
 - ↳ **Login/Temperatures/Info** menu is displayed.
- ▶ Select the **Temperatures** menu option.
 - ↳ Current tank and rinsing temperatures are displayed.

Setting options, operating and hygiene data

8 Setting options, operating and hygiene data

The machine can be operated as soon as the commissioning procedure is complete.

The following settings can be individually set as required using the operator menu.

8.1 Overview of operator menu

Sub-menu	Function
General settings	Language Date Time Date format Time format Temperature unit
Display indications	Program representation Brightness Adjust contrast Temperature display
Acoustic signal	On/Off
Chemical settings	Detergent dosing Rinse aid dosing Filling chemical hoses
External water treatment (only when activated by HOBART Service)	Set counter Reset counter Remaining water quantity
Operating/hygiene data	Display operating data Display hygiene data Transmit report
Timer	Weekly program Timer program Activate/deactivate

Setting options, operating and hygiene data

8.2 Opening the operator menu

- ✓ The machine must be switched on.
- ▶ Activate the infrared sensor in the display by hand or push one of the display navigation buttons.
 - ↳ Display is activated.
 - ↳ **Program selection and info** menu is displayed.
- ▶ Push button ⑤.
 - ↳ **Login/Temperatures/Info** menu is displayed.
- ▶ Push display navigation button ⑥ until **Login** is highlighted.
- ▶ Push button ⑤.
 - ↳ Enter PIN is displayed.

Enter operator code "1111":

- ▶ Push display navigation button ④ or ⑥ until a "1" is shown in the first place.
- ▶ Push button ⑤ and skip to the next number.
- ▶ Repeat the procedure as described until all numbers are entered.

The operator menu is displayed once the correct code has been entered.

8.3 Navigating, selecting and setting within the menu

Navigating and opening sub-menu:

- ▶ Push ④ or ⑥ navigation button until the required sub-menu appears and is highlighted.
- ▶ Push button ⑤.
 - ↳ Menu is displayed.

Making and activating settings:

- ▶ Push display navigation button ④ or ⑥ until the required setting is displayed and highlighted.
- ▶ Push button ⑤.
 - ↳ The setting is activated.

Back:

- ▶ Push ④ or ⑥ navigation button until the **Back** menu option appears and is highlighted.
- ▶ Push button ⑤.
 - ↳ The next highest menu level is displayed.

Setting options, operating and hygiene data

8.4 Exiting the operator menu

- Open the hood and close it again, or do not press a key for 10 seconds!

8.5 Making the general settings

The following settings can be entered into the **General settings** sub-menu.

Setting	Selection
Language	is set as default during commissioning, see sections 6.3 to 6.5
Date	
Time	
Date format	YYYY.MM.DD DD.MM.YYYY MM.DD.YYYY
Time format	24h / 12h
Temperature unit	°C / °F

Making the settings:

- Open the operator menu, see section [8.2](#).
- Open the **General settings** sub-menu and make the setting, see section [8.3](#).

8.6 Setting the display indications

The following settings can be entered into the **Display indications** sub-menu.

Setting	Selection
Program representation	Text display Symbol display (see section 4.6.1)
Display brightness	Set brightness
Display contrast	Set contrast
Temperature display	Activate/deactivate

Making the settings:

- Open the operator menu, see section [8.2](#).
- Open the **Display indications** sub-menu and make the setting, see section [8.3](#).

Setting options, operating and hygiene data

8.7 Setting the acoustic signal

An acoustic signal can be switched on or off in the **Acoustic signal** sub-menu.

Setting	Selection
Set signal sensor	Sound on/sound off

Making the settings:

- Open the operator menu, see section 8.2.
- Open the **Acoustic signal** sub-menu and make the setting, see section 8.3.

8.8 Making the chemical settings

The following settings can be entered into the **Chemical settings** submenü.

Setting	Selection
Detergent dosing	Factory setting: 2.5 g/l Possible range: 0–9.5 ml
Rinse aid dosing	Factory setting: 0.3 g/l Possible range: 0–2.0 g/l
Filling chemical hoses	Fill detergent suction hose NO/YES Fill rinse aid suction hose NO/YES

Making the settings:

- Open the operator menu, see section 8.2.
- Open the **Chemical settings** submenü and make the setting, see section 8.3.

If in the **Fill chemical hoses** submenu, the prompt **Fill detergent suction hose** and/or **Fill rinse aid suction hose** are set to **Yes**, the filling process will start.

The filling process is visualised in the display by a time bar.

NOTE: The hose filling for detergent only functions when the door/hood is closed.

It can be stopped by pushing button ② if necessary.

Setting options, operating and hygiene data

8.9 Configuring the counter for external water treatment (optional)

The following settings for an optional external water treatment can be entered into the **External water treatment** sub-menu.

Setting	Selection
Set counter	Set counter Factory setting: not activated
Reset counter	Reset counter NO Reset counter YES
Remaining water quantity	Remaining capacity for external water treatment Displays the current demineralisation counter status (water quantity remaining until the desalination cartridge is depleted).

Making the settings:

- Open the operator menu, see section [8.2](#).
- Open the **External water treatment** sub-menu and make the setting, see section [8.3](#).

8.10 Displaying the operating/hygiene data

The following data can be called-up from the **Operating/hygiene data** sub-menu.

Setting	Selection
Display operating data	Commissioning date Operating hours until next service Operating hours overall Wash cycles overall Water consumption overall Operating days/hours Daily wash cycles Daily water consumption Remaining capacity for external water treatment
Hygiene data	See section 8.10.1
Report	See section 8.10.2

Display the setting:

- Open the operator menu, see section [8.2](#).
- Open the **Operating/hygiene data** sub-menu.

Setting options, operating and hygiene data

- Open the corresponding sub-menu and display the setting, see section 8.3.

8.10.1 Display hygiene data

Hygiene-relevant events, data and messages are listed in this menu option.

The list starts with the current date and the last event that occurred on this day. The subsequent events occurring on this day then appear, followed by the events occurring the day before.

A maximum of 1500 events are saved. Older lists are deleted.

Pushing button ⑤ opens the list of completed wash programs.

The following data are saved:

Hygiene data	Program set point temperature too low
	Thermal disinfection aborted
	Wash process aborted
Messages	Rinse aid empty
	Rinse aid deficiency remedied
	Detergent empty
	Detergent deficiency remedied
	Salt empty
	Salt deficiency remedied
	Service interval expired
	Half-cartridge depleted
Events	Filling program
	Pump-out program
Washing program	

8.10.2 Transmit report

This menu option is for transmitting operating and hygiene-relevant data in txt format to a USB stick. This format can be imported and processed using standard software.

Procedure:

- Open the door.
- Remove sealing cover from USB port (top right near door sealing).
- Insert USB stick into the port.
- Select the **Report** menu option.
 - ↳ After a successful download, a message appears in the display.

Setting options, operating and hygiene data

- ▶ Remove USB stick.
- ▶ Close off USB port with the sealing cover.

8.11 Setting automatic switch-on

The **Timer** sub-menu is for defining times for automatic machine switch-on.

This can be done in two ways:

- The **Weekly program** menu option can be used to define various switch-on times for individual weekdays.
- The **Daily Timer program** can be used to define a non-recurring switch-on time for today’s date.

The switch-on must be set to active via the separate **Activate/deactivate** menu option. The text frame shows the most recently selected of the four options. When switch-on is activated, a small clock symbol remains in the top left-hand section of the display for 30 minutes after the machine has been turned off.

Setting	Selection
Weekly program	Weekdays and times
Daily Timer program	Date and time
Activate/deactivate	Weekly timer ON Daily Timer program ON Weekly and Daily Timer program ON Timer OFF

Making the settings:

- ▶ Open the operator menu, see section 8.2.
- ▶ Open the **Timer** sub-menu and make the setting, see section 8.3.

The date and time can be selected and altered using the display navigation buttons.

The switch-on must also be set to active via the separate **Activate/deactivate** menu option.

When the time and date are reached, the machine switches on.

Weekdays and an individual switch-on time can be selected and altered using the display navigation buttons.

For weekdays on which **no** switch-on is to occur, **no** time may be saved.

After the switch-on times for each weekday have been entered, the switch-on must be set to active via the separate **Activate/deactivate** menu option.

When the time is reached, the machine switches on.

The **Activate/deactivate** menu option offers the following four selection options:

Daily Timer program

Weekly program

Activate/deactivate

Setting options, operating and hygiene data

- **Daily timer on:** Automatic switch-on is activated for an **entered day's date**.
- **Weekly timer on:** Automatic switch-on is activated for the **saved weekdays and individual times**.
- **Daily and weekly timer on:** Automatic switch-on is activated for an **entered day's date and for the saved weekdays**.
- **Timer off:** Automatic switch-on is **generally deactivated**.

Fault indications and problems

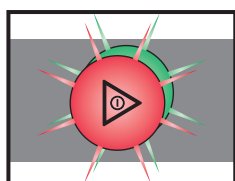
9 Fault indications and problems

9.1 Fault indications

Displayed error messages are shown in the order of priority. They **must** be acknowledged via the display navigation button ⑤.

Acknowledged error messages for which the error is still pending are first hidden to enable further messages to be displayed.

If all fault messages have been acknowledged but errors are still pending, these messages will then be shown again.

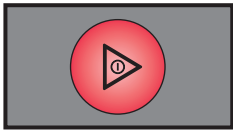


Information

- Limited operation is possible.
- The ON/OFF button ① illuminates green/red alternately.
- The error code is shown in the display (see table).

Error code	Message text	Measure
003	Temperature not reached. Contact service technician.	Contact your HOBART Service Partner.
004	Temperature not reached. Contact service technician.	Contact your HOBART Service Partner.
008	Temperature not reached. Contact service technician.	Contact your HOBART Service Partner.
009	Temperature not reached. Contact service technician.	Contact your HOBART Service Partner.
021	Fault in the drain system. Clean the drain hose if necessary and pump-out the machine again.	Clean the drain hose if necessary and pump-out the machine again.
022	Fault in the drain system. Clean the drain hose if necessary.	Clean the drain hose if necessary.
029	Program aborted. Close hood.	Close hood.
036	Detergent deficiency. Refill detergent.	Refill detergent (see section 6.6).
037	Rinse aid deficiency. Refill rinse aid.	Refill rinse aid (see section 6.6).
038	Input voltage too high! Machine has been switched off.	Have the input voltage checked by the (site) electrician.
039	Filling program aborted. Close hood.	Close hood.
041	External water treatment depleted. Replace.	Replace part or full desalination cartridge.
042	Osmosis pre-filter depleted. Replace.	Replace pre-filter.
043	Salt deficiency. Refill regenerating salt.	Refill regenerating salt.

Fault indications and problems

**Faults**

- Limited operation is not possible.
- The ON/OFF button ① illuminates red permanently.
- The error code is shown in the display (see table).
- Once the error display has been acknowledged, the machine turns off.

Error code	Message text	Measure
001	Hot water tank temperature sensor fault. Contact service technician.	Contact your HOBART Service Partner.
002	Hot water tank temperature sensor fault. Contact service technician.	Contact your HOBART Service Partner.
006	Wash tank temperature sensor fault. Contact service technician.	Contact your HOBART Service Partner.
007	Wash tank temperature sensor fault. Contact service technician.	Contact your HOBART Service Partner.
011	Wash chamber temperature sensor fault. Contact service technician.	Contact your HOBART Service Partner.
012	Wash chamber temperature sensor fault. Contact service technician.	Contact your HOBART Service Partner.
013	Disinfection not guaranteed. Contact service technician.	Contact your HOBART Service Partner.
014	Hot water tank pressure sensor fault. Contact service technician.	Contact your HOBART Service Partner.
015	Hot water tank pressure sensor fault. Contact service technician.	Contact your HOBART Service Partner.
016	Wash tank pressure sensor fault. Contact service technician.	Contact your HOBART Service Partner.
017	Tank pressure sensor fault. Contact service technician.	Contact your HOBART Service Partner.
018	Fault in the filling or drain system. Contact service technician.	Contact your HOBART Service Partner.
019	Strainers blocked. Remove, clean and re-insert.	Remove, clean and re-insert strainers.
020	Wash tank pressure sensor fault. Pump out machine.	Pump out machine.
023	Fault in the filling system. Supply quantity too low.	Check site flow pressure.
031	Fault in the filling system. Check water supply.	Check water supply.
032	Fault in the filling system. Check water supply.	Check water supply.
033	Fault in the filling system. Contact service technician.	Contact your HOBART Service Partner.
035	Insert tank cover strainer correctly.	Insert tank cover strainer correctly.
044	Salt deficiency. Refill regenerating salt.	Refill regenerating salt.
045	Number of rinse cycles without regenerating salt exceeded. Contact service technician.	Contact your HOBART Service Partner.
052	Fault in the filling or drain system. Contact service technician. Disconnect machine from the water and power supply!	Contact your HOBART Service Partner.

Fault indications and problems

9.2 Remedying the problem

9.2.1 Poor wash result

Nature of the problem	Possible cause	Remedy
Washware not clean.	Wash arms stiff (you should be able to turn them easily by hand).	Remove wash arms and clean them thoroughly. Also check water outlet from machine to wash arms is clear.
	Wash arm nozzles are clogged (visual check).	Remove wash arms, remove cleaning caps and rinse wash arms thoroughly until all soiling is removed. Replace cleaning caps.
	Rinse nozzles clogged (usually by lime deposit).	Remove rinse arms and decalcify them in separate container. Check site softener system for function.
	Regeneration concentration is too low or too high.	Check detergent concentration setting.
	Coarse strainer clogged.	Remove, empty and clean strainer.
	Fine strainer clogged or obstructed by lime deposits.	Remove fine strainer. If heavily soiled, soak in a vinegar solution. Then clean it thoroughly with a brush until the pores are free. The fine strainer should generally be cleaned daily (see operating instructions).
	Wrong program selected for heavily soiled washware.	Select program with longer wash cycle.
Washware does not dry properly.	Rinse aid dosing too low.	Increase concentration (see operating instructions).
	Washware still greasy.	Detergent concentration too low: increase (see operation instructions). Check if detergent is appropriate. If not, choose a stronger one. Drain contaminated water and refill machine. Clear washware more thoroughly beforehand.
	Rack is not suitable for type of dishes (sloping).	Use appropriate racks to create a sloping position which allows water to drain away from cavities.
	Washware remains in the machine too long at the end of rinse cycle.	Remove washware as soon as cycle is completed to enable it to dry.

Fault indications and problems

Nature of the problem	Possible cause	Remedy
Streaks and spots on washware.	Rinse aid concentration too high (stripe or bubble formation).	Reduce concentration (see operating instructions).
	Hard water or high mineral content.	Check water quality. Every local water works holds data on the composition of the water they supply and will provide these on request. Reference values: Ideal calcium value: 0 – 3 °d (total hardness). Ideal mineral content value: for glasses, max. conductivity 100 µS/cm, for dishes, still viable to max. 400 µS/cm.
	Rack is not suitable for type of dishes (sloping).	Use appropriate racks to create a sloping position which allows water to drain away from cavities.
	Inadequate rinse aid dosing causes stains.	Increase rinse aid concentration (see operating instructions).
	Machines with integrated softener: use of wrong salt (e.g. tablets).	Do not use salt tablets.

9.2.2 Other problems

Nature of the problem	Potential causes	Remedy
Machine becomes significantly louder during the wash program.	Excessive foaming from unsuitable detergent or rinse aid	Use suitable detergent and rinse aid.
	Excessive foaming due from foaming substances (protein, parting agents, etc.)	Preliminary clean the wash ware thoroughly.
Machine switches off suddenly during operation.	Machine coupled to a maximum system or locked against other current consumers.	Have machine connected separately (electrician!).
	A site fuse has tripped.	Check site fuses.

Maintenance

10 Maintenance



In order to maintain the warranty, as well as a permanently safe, efficient, and trouble-free operation of the machine(s), the required maintenance must be carried out by authorized service technicians.

We therefore recommend the conclusion of an inspection and maintenance contract, which guarantees qualified support by specially trained service technicians according to a time schedule based on the operating conditions.

Genuine spare parts must be used for repairs and wearing part replacements. Wearing parts include dosing hoses, rinse arm bearings etc.

In Germany, your HOBART machines are governed by the Ordinance on Industrial Health and Safety and must be inspected by a qualified electrician in accordance with the intervals specified in BGV A3.

11 Disposal



The machine operator is responsible for disposing of the machine and its operating materials correctly and in accordance with environmental regulations. Both national and local legal provisions and regulations must be observed!

With respect to fluorine-containing coolants in machines with heat pumps, the requirements of Regulation (EC) No. 517/2014 and supplementary national legislation must be observed in Europe.

We recommend assigning a specialist company for disposal. Alternatively, Hobart can take back the machine and its operating materials.

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