

# Wexiödisk<sup>W</sup>

## HOOD TYPE DISHWASHER WD-6 DUPLUS

(translation of the original documentation)



Read the manual before using the machine!

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### Installation and user manual

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# 1. General instructions

Read the instructions in this manual carefully as they contain important information regarding the correct, effective and safe installation, use and servicing of the machine. Service personnel should have access to all documentation for the machine.

Keep this manual in a safe place so that it can and should be used by other operators of the machine.



- The machine is intended to be used for washing dishware that is found in the general catering and restaurant trade. Other uses are NOT recommended!
- The machine can be equipped with a number of different options. Certain options may be standard in a number of countries. Check what your machine is equipped with.
- Use auxiliary equipment where possible to avoid heavy lifting.
- The machine's display indicates what the machine is doing. The machine's various temperatures and any alarms are also shown.
- The capacity requirements of the machine can be found in the TECHNICAL DATA chapter.
- The electronics in the machine are RoHS compatible.

Before the machine is started up and used, the following points should be observed:



- The SAFETY INSTRUCTIONS chapter must be studied carefully before commissioning the machine.
- Installation of the machine must be performed in accordance with the requirements and instructions indicated in the INSTALLATION INSTRUCTIONS and TECHNICAL SPECIFICATIONS chapters.
- Any personnel who may at some point use the machine must be trained in its operation, use and care.
- The machine should not be used by anyone suffering from a physical or mental illness.
- A close eye should be kept on any children in the vicinity of the machine to ensure they do not tamper with it.
- All cover plates must be fitted during use.



The machine and equipment requires an annual service. Contact one of our authorised and trained service companies for such a service.

## General instructions

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### 1.1 Symbols used



This symbol warns of situations where a safety risk may arise. The instructions given should be followed in order to prevent injury and dangerous situations.



This symbol on a machine part warns of electrical equipment. The machine must be entirely non-live during servicing, turn off the power at the power switch and if required, the switch should be locked to prevent unintentional operation. The component may only be removed by a qualified electrician.



This symbol warns that the machine's electronics are sensitive to electrostatic discharge (ESD), which is why a static electricity wristband must be used when handling the electronics at all times.



This symbol explains the right way to perform a task in order to prevent poor results and/or damage to the machine.



This symbol identifies recommendations and hints to help you get the best results when washing, to increase the machine's lifespan and reduce the risk of emergency shutdown.



This symbol explains the importance of careful and regular cleaning of the machine to meet hygiene requirements.



This symbol warns of the importance to read the manual before using the machine.



This symbol warns that local regulations must be followed for recycling of packaging etc. as well as the destruction of the machine.



This symbol shows where any earth cable for potential equalisation can be connected. The earth bolt is placed on the machine's stand.

## 1.2 Machine rating

The machine has two rating plates, one of which is placed at the bottom of one side of the machine and the other in the electrical cabinet. The technical information on the plates is also included on the machine's wiring diagram. The various rating fields show:



1. Machine type
2. Machine serial number
3. Year of manufacture
4. Enclosure protection class
5. Voltage
6. Number of phases with or without neutral
7. Frequency
8. Main fuse
9. Motor output
10. Electrical heating output
11. Max. output

## 1.3 Checking that the machine and manual correspond

Check that the type description on the rating plate corresponds with the type description on manual cover page. If manuals are missing, it is possible to order new ones from the manufacturer or the local distributor. When ordering new manuals, it is important to quote the machine number found on the rating plate.

## 1.4 EU Declaration of Conformity

A so-called EU Declaration of Conformity is provided on delivery of the machine.

**Wexiödisk**

### CE DECLARATION OF CONFORMITY

This declaration of conformity only refers to the machine/product in the condition in which it is supplied, not any additions or modifications made by the customer/user.

1 Manufacturer: Wexiödisk AB Mårdvägen 4 S 352 45 Växjö, Sweden  
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2 Representative: Södra Centrala Träsk, Bore Hygien Group Ltd, DSP Ltd, Södra Centrala Träsk AB, Farus ehf, JZB, Martin Food Equipment Ltd, Moffat Pty Ltd, M's Alshaija Consolidates Pvt Ltd, Nakaniishi Mfg Co Ltd, QMB Corporation, Retail doo, SRS Hygien i Kurdistan, TFN Group, Wexiödisk AB, Wexiödisk UK

3 Competent or technical documentation: Magnus Ericsson

4 Our machines are manufactured in 2016 in accordance with applicable EU directives and we declare under sole responsibility that the following products:

5 CE Declaration of Conformity:  
EU's Machinery Directive 2006/42/EG, annex IIA  
EU's Low-voltage directive 2006/95/EC  
EU's EMC-directive 2014/53/EU  
EU's WEEE-directive 2002/95/CE  
EU's RoHS-directive 2011/65/EU

6 Harmonised standards:  
EN 12102 Machine safety: General principles for design - Risk assessment and risk reduction  
EN 50105 Safety - Particular rules for machine tools  
EN 60529 Specification for degrees of protection provided by enclosures (IP code)  
EN 62233 Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure  
EN 61010-1 Safety of electrical equipment - Part 1: Basic safety requirements for household appliances, electric tools and similar apparatus  
EN 55014-1 Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus  
EN 50181 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

7 The above directives and standards are common to the different machine groups.  
Standards in the tables below are specific to the different machine groups.

|                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Model designation: T10000-1</p> <p>Serial number: 123456789</p> <p>Welding machine with accessories:</p> <p>WD-10000-1 (T10000-1)</p> <p>WD-10000-2 (T10000-2)</p> <p>WD-10000-3 (T10000-3)</p> <p>WD-10000-4 (T10000-4)</p> <p>WD-10000-5 (T10000-5)</p> <p>WD-10000-6 (T10000-6)</p> <p>WD-10000-7 (T10000-7)</p> <p>WD-10000-8 (T10000-8)</p> <p>WD-10000-9 (T10000-9)</p> <p>WD-10000-10 (T10000-10)</p> | <p>Harmonised standards to: EU's Machinery Directive 2006/42/EC, annex IIA</p> <p>EN 60204-1 Safety of machinery - Risk reduction measures - Requirements for safety of machinery</p> <p>EN 60204-2 Safety of machinery - Risk reduction measures - Requirements for safety of machinery</p> |
| <p>Special machines:</p> <p>WD-10000-11 (T10000-11)</p> <p>WD-10000-12 (T10000-12)</p> <p>WD-10000-13 (T10000-13)</p> <p>WD-10000-14 (T10000-14)</p> <p>WD-10000-15 (T10000-15)</p>                                                                                                                                                                                                                             | <p>Harmonised standards to: EU's Machinery Directive 2006/42/EC, annex IIA</p> <p>EN 60204-1 Safety of machinery - Risk reduction measures - Requirements for safety of machinery</p>                                                                                                        |
| <p>Special machines:</p> <p>WD-10000-16 (T10000-16)</p> <p>WD-10000-17 (T10000-17)</p> <p>WD-10000-18 (T10000-18)</p> <p>WD-10000-19 (T10000-19)</p> <p>WD-10000-20 (T10000-20)</p>                                                                                                                                                                                                                             | <p>Harmonised standards to: EU's Machinery Directive 2006/42/EC, annex IIA</p> <p>EN 60204-1 Safety of machinery - Risk reduction measures - Requirements for safety of machinery</p>                                                                                                        |

8 Växjö 2016-04-20

Magnus Ericsson  
Managing Director

CE\_16\_2

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- Representatives of Wexiödisk AB.
- Person responsible for the product's documentation.
- Year of manufacture of the product.
- The EU Directives with applicable provisions to which all the machines, special machines and accessories comply.
- Harmonised standards for the Directives specified, and which the machines, special machines and accessories meet, wherever relevant.
- Model designation and serial number of the machines, special machines and accessories the document applies to.
- Place and date with signature and name (in block letters) of the person responsible for ensuring compliance with legislation and regulations.

## 2. Safety instructions



Read the chapter GENERAL INSTRUCTIONS carefully before starting work.

### 2.1 General information



The machine is CE marked, which means that it complies with the requirements of the EU Machinery Directive with regard to product safety. Product safety means that the design of the machine will prevent personal injury or damage to property. The CE mark is only valid for an unmodified machine. Any damage to the machine arising from failure to follow the instructions will invalidate the supplier's warranty and product liability.



Installation, repairs and servicing must be performed by an authorised engineer in accordance with local and national rules in effect for such work with water and drainage systems, electricity, ventilation and steam. To ensure electrical safety, components must only be tested when installed in their normal place in the machine. We recommend that the work is performed by the manufacturer or one of the manufacturer's authorised service companies.

To further improve safety during installation, operation and servicing, the operator and the personnel responsible for installing and servicing the machine should read the safety instructions carefully.



The machine's electronics are sensitive to electrostatic discharge (ESD), which is why a static electricity wristband must be used when handling the electronics at all times.

Before the machine enters service, ensure that the personnel are given the necessary training in handling and looking after the machine.

## Safety instructions

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In order to avoid dangerous situations, the following must be followed:



- Switch off the machine immediately in the event of failure or malfunction.
- Make sure the machine is non-live before removing the cover plate. Turn off the power using the power switch. If required, the switch must be locked to prevent unintentional operation.
- Shut off the tap for incoming water and drain the machine's tank(s) before starting work. Let the machine cool down as pipes for water, washing pumps, booster heaters and valves become very hot when the machine is in operation.
- The machine and equipment requires an annual service. The machine should be serviced by a person authorised or trained to do so by us. Use original spare parts.
- Warranty repairs must be performed by an authorised company. Contact an authorised service company to draw up a programme of preventive care and maintenance. For authorised service companies, please see [www.wexiodisk.com](http://www.wexiodisk.com) or contact Wexiödisk AB.
- The regular checks described in the manual must be carried out in accordance with the instructions.

## 2.2 Transport



Handle the machine with care during unloading and transport; there is a risk of it tipping over. Never lift or move the machine without using the wooden packaging to support the stand.

## 2.3 Installation



- The machine is designed for quick electrical installation.
- The machine must be connected to a lockable power switch.
- Make sure that the mains voltage is the same as that indicated on the machine's rating plate.



For increased safety, it is recommended to equip the installation with a ground fault circuit breaker.

## 2.4 Detergent and drying agent



Be aware of the risks involved in handling detergents and drying agents. Protective gloves and safety glasses should be used when handling, and an eyebath should be within easy access. Read the warning text on the detergent and drying agent containers as well as the detergent supplier's instructions.

## 2.5 Operation



Be very careful around the machine when it is in operation.

### 2.5.1 High temperatures



- The temperature of the washing and rinsing water is 60 °C and 65 -85 °C. Do not open the machine until the washing and rinsing phases have finished. The steam that comes out of the machine after the wash has been completed is hot.
- Avoid touching hot pipes and booster heaters. The machine's outer jacket can also become hot during operation.

### 2.5.2 Risk of crushing



The machine, and any equipment, has moving parts before, during and after washing. Be careful therefore to avoid crushing injuries. In connection with service or repairs that require the hood to be open, it must be secured by means of a prop for example.

### 2.5.3 Risk of slipping



The floor should be kept clean and dry to eliminate any risk of slipping. Mop up any water and leftover food that has been spilt.

### 2.5.4 Sounds



The machine is not silent during operation, see TECHNICAL SPECIFICATIONS. Hearing protection may therefore need to be used.

## 2.6 Cleaning the machine



The water in the tank has a temperature of approximately 60 °C and contains detergent. Be careful when draining and cleaning the wash tank. Wear protective gloves and safety glasses and have an eyebath within easy access.

## 3. Installation



Read the chapters GENERAL INSTRUCTIONS and SAFETY INSTRUCTIONS carefully before starting work.

### 3.1 General information



Read these instructions carefully, as they contain important information regarding the correct installation method.

- The instructions should be used together with the machine's wiring diagram. These can be found in the machine's electrical cabinet.
- The machine can be equipped with a number of different options. Certain options may be standard in a number of countries. Check what your machine is equipped with.
- If holes need to be drilled in the machine, the holes must be fitted with an edge strip or similar protection.
- Software version 2.5 or later should be used to connect a WD-PRM 6 to a WD-6 DUPLUS. If you are using an earlier software version this should be updated. The level pipe in the dishwasher has been replaced with a bottom filter.

### 3.2 Requirements for the installation site

#### 3.2.1 Lighting

In order to ensure the best possible working conditions during installation, operation, servicing and maintenance, make sure that the machine is installed in a well-lit room.

#### 3.2.2 Ventilation and ambient temperature

The machine is intended to be used in an indoor environment at normal room temperature. The machine produces heat and steam when in operation. In order to ensure the best possible working conditions, a certain air renewal rate is required in the dishwashing room. The ventilation requirements for the dishwashing room are to be dimensioned on the basis of the applicable standards.

## Installation

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### 3.2.3 Power supply

Power supply connections are made by qualified personnel in a way that complies with local and national regulations. The machine's capacity requirements are stipulated in TECHNICAL SPECIFICATIONS.

### 3.2.4 Water

Water connections are made by qualified personnel in a way that complies with local and national regulations. The machine's capacity requirements are stipulated in TECHNICAL SPECIFICATIONS.

### 3.2.5 Drain/waste pipe

There must be a drain pipe with an effective trap for the machine's waste water and for water used for rinse cleaning. The machine's capacity requirements for drainage are stipulated in TECHNICAL SPECIFICATIONS.

### 3.2.6 Space for servicing

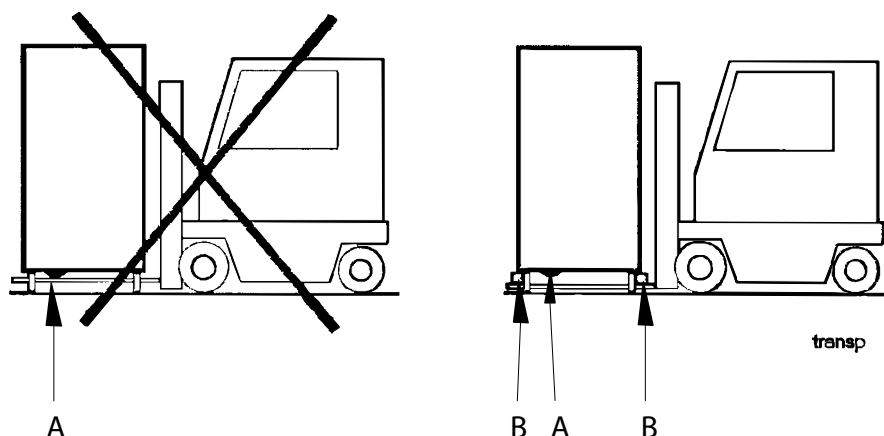
A 1-metre area should be left clear in front of the machine for servicing purposes. Depending on if the machine has different accessories, there may also be such a requirement at the infeed and outfeed ends as well as above the machine.

### 3.3 Transport and storage

Always transport the machine in an upright position.



Take care during transport, as there is a risk of tipping. N.B.! The machine must not be transported without a pallet or other support. Some form of support beam must always be used along the sides of the machine during transport. Otherwise the machine may become damaged. When transporting the machine without a normal wooden pallet, always check that none of the components underneath the machine can be damaged.



*A=Pumps*  
*B=Spacers*



If the machine is not being installed immediately, it must be stored in a frost-free area where the air is dry.

#### 3.3.1 Unpacking

Check that all parts have been delivered by comparing them with the delivery note.

Remove the packing material. Inspect the machine for any transport damage.

#### 3.3.2 Recycling

Packaging must be sent for destruction or recycling in accordance with local regulations.



The machine is manufactured from stainless steel plate, among other things, and also contains electronic components. Recycling of the appliance when its economic lifetime has been reached must be carried out in accordance with current rules and regulations.

## 3.4 Installation

### 3.4.1 Preparing for the installation

Check that there is sufficient room for the machine at the installation location.



- Check that correct connections are available for water, electricity, drainage and possibly steam at the installation location. See TECHNICAL SPECIFICATIONS.
- Check that the overheating protection device is reset.

### 3.4.2 Positioning the machine

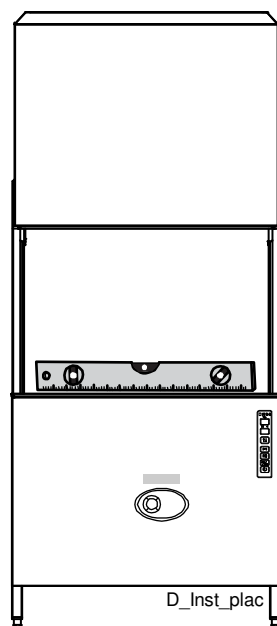
Check the following points before the machine is placed in position:



- Check that the fuse for the machine at the site is off, blocked and that outgoing electrical circuits from the machine are non-live.
- Remove the protective plastic on the sides which are to be stood against a wall.
- The distance between the wall and machine should be at least 20 mm.
- If the machine is to be corner-loaded, it must be positioned with the control panel furthest away from the wall.

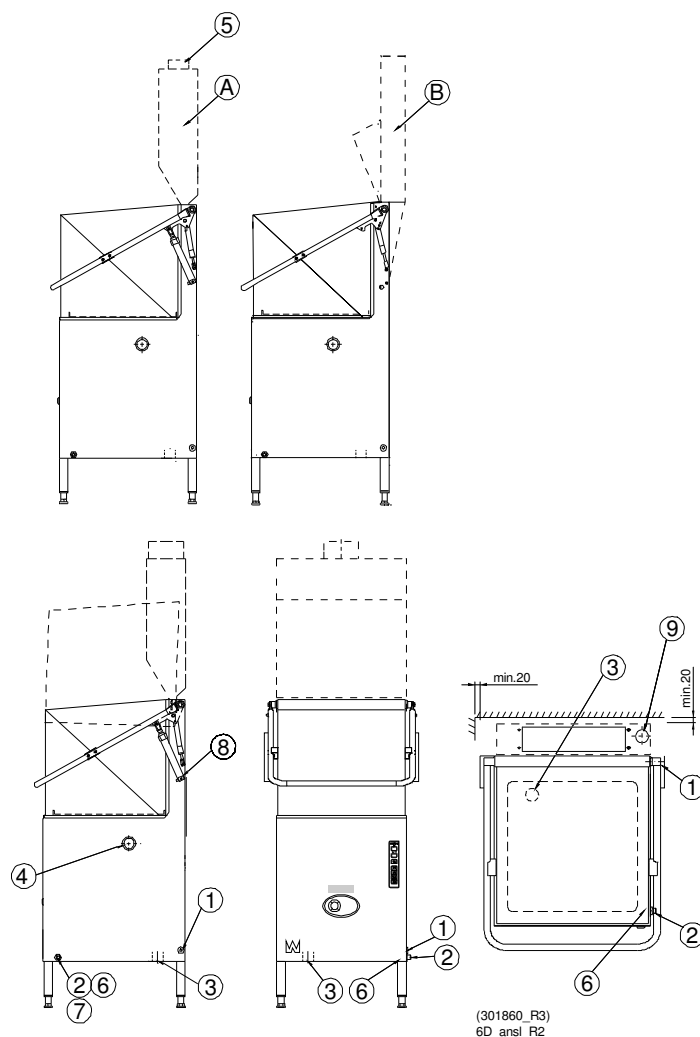
Place the machine in position and check that it, and any accessories, are horizontally level. Adjust the height with the legs.

Check with a spirit level that is standing level. Place the spirit level on the join between the machine tank and the upper part. Once the machine has been filled with water, do another check to make sure the machine is horizontal.



*Check using a spirit level that the machine is standing level*

### 3.5 Connections



- A= Steam hood with extractor (option)
  - B= Condensation unit with heat recovery through the heat recovery unit (option)
1. Electrical connection
  2. Water connection
  3. Drain/waste pipe connection
  4. Plugged hole for detergent hose
  5. Ventilation connection (on machines with steam hood) (option)
  6. Water pressure outlet for detergent dosage
  7. Alternative water connection from below
  8. Bleed for lifting cylinder (on machines with an automatic hood) (option)
  9. Drain connection (option)

In the following chapter, figures are given in brackets to clarify what needs to be done. These numbers refer to image and list above.

## Installation

---

### 3.5.1 Electrical connection

Information about electrical connections is available on the machine's wiring diagram which is provided on delivery. Store the diagrams in the plastic pocket, located in the electrical cabinet, even after installation.



- The machine is designed for quick electrical installation.
- The machine must be connected to a lockable power switch. This should be placed on a wall, well-protected from water and from the steam which escapes when the machine is opened. The machine is supplied with the electrical cable connected (1).

After completing the installation, switch on the power switch and all circuit breakers.

### 3.5.2 Water connection, regardless of any options



- A shut-off cock must be installed on the incoming pipe.
- The incoming water pipe is fitted with a break tank and filter.
- It is important that the water supply has sufficient pressure to ensure the correct flow of water to the machine. The required water flow and pressure can be found in the TECHNICAL SPECIFICATIONS.

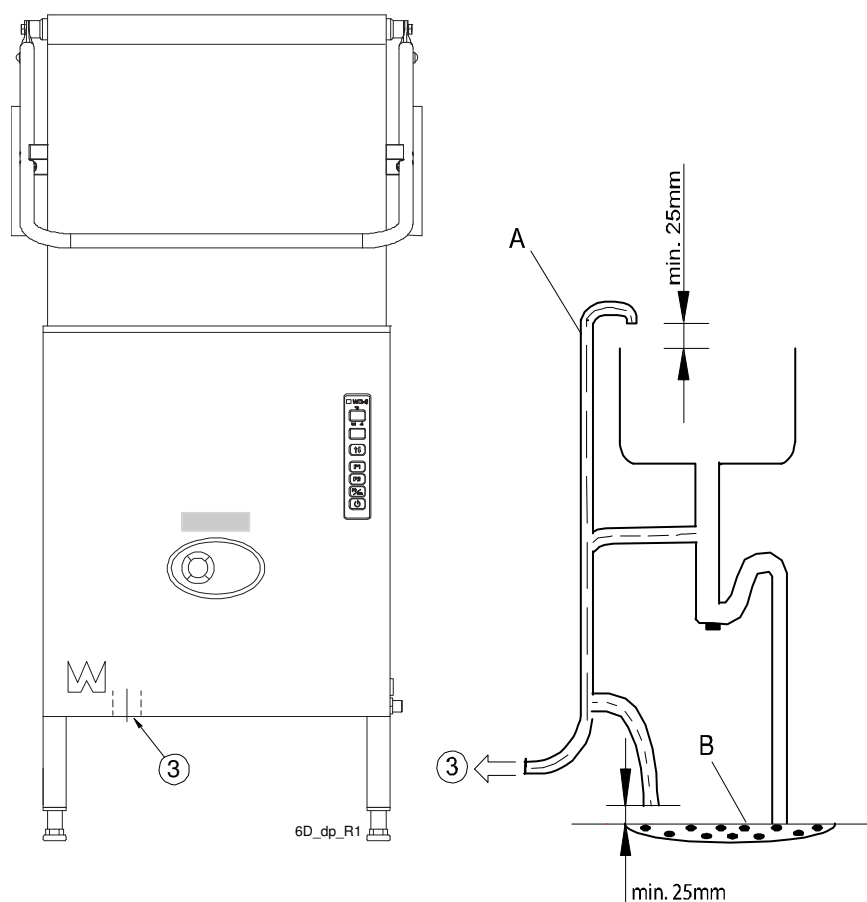
The water pipe is connected at (2) or at (7). If the machine is connected with a hose, this should be steel braided and have an internal diameter of at least 12 mm.

### 3.5.3 Drain/waste pipe connection

The waste water system connected to (3) should consist of a 50 mm metal pipe that will withstand mechanical impacts. The drain must run to a floor drain, where its opening must be above the water level.

Ensure that the drain connection is kept in place by using e.g. cable ties in the designated areas.

#### Machines with a drain pump (option)



*Drain hose (A) consists of a spiral hose and is connected to the machine at (3) and to the floor drain (B) as per one of the alternatives in the illustration.*

#### Machines connected to WD-PRM6/7 (option)



See also "Installation and user manual" for WD-PRM6/7.

## Installation

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### 3.5.4 Ventilation

The machine's heat load for the room is stipulated in TECHNICAL SPECIFICATIONS.

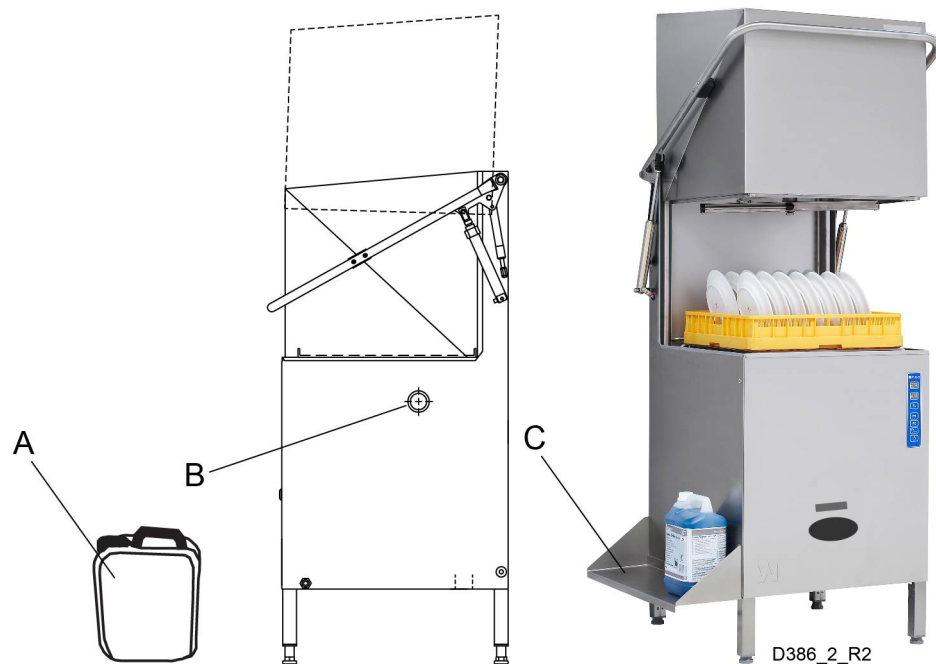
### 3.5.5 Bleeding the hood lifting cylinder (option)

1. Close the hood.
2. Loosen the hose connection of the first air cylinder approx. 2-3 turns using a 13 mm box wrench.
3. Keep the hood in the closed position. Press the up button. Check that only water and no air comes out of the hose connection. Otherwise repeat the procedure.
4. Tighten the hose connection with the hood still in the lower position.
5. Repeat the same procedure with the second cylinder.

### 3.5.6 Detergent and drying agent (possible option)



- Check what your machine is equipped with, which depends on the model, machine type and country.
- Use the same make and type of detergent and drying agent.
- With machines connected to cold water, the water pipe temperature may be too low for use of powder or paste type detergents.
- If liquid detergent is used together with Wexiödisk's detergent pump, the detergent must be placed under the machine's tank level.



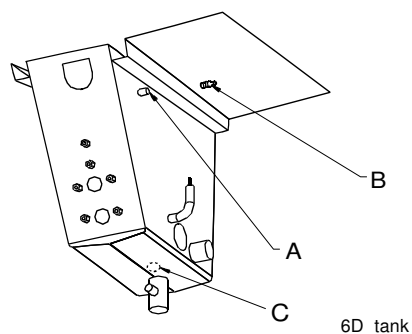
*The detergent (A) is positioned below the plugged connection for the detergent hose (B).*

*The use of our shelf (C) would be appropriate WD203.0663*

- There is a plugged hole for a detergent hose on the back and end of the machine (4).
- The detergent hose is connected to the pipe (A) at the top of the chemical washing tank on the right-hand side (see the figure below). There is a connection nipple in the pipe (B).
- If detergent paste is being used, the connection nipple must be removed and the hose connected directly to the pipe (A).
- If liquid detergent is used, the nipple must be left in the pipe. Drill a hole through the nipple and connect the hose to the nipple.
- The measuring cell for measuring the concentration of detergent in the washing water must be put in the bottom of the tank. On the inside bottom of the tank next to the heating element, the letter "C" is stamped into the metal to mark where the hole should be drilled.
- The water outlet for detergent (6) is on the incoming water pipe (2).

When drilling holes, it is important that the following points should be observed:

- Use sharp tools so that panels do not become unnecessary hot. Red-hot panels can rust in the future.
- Remove all metal shavings carefully both from the machine and tank before refilling with water. Shavings left in the tank can cause corrosion.



*Connecting the detergent hose*

*Marking for measuring cell*

A=Connection in the tank

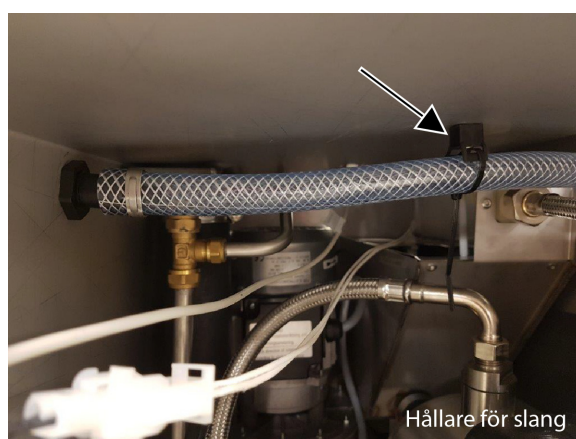
B=Connection nipple

C=Marking in bottom of tank for measuring cell

For information about electrical connections, see the wiring diagram.

If equipment for a different type of detergent is used, it should preferably be put on the wall behind the machine to avoid holes being drilled unnecessarily in the machine.

The machine can also be equipped with detergent and drying agent equipment via external connections. See the wiring diagram for the correct connection.



*Holder for connections for detergent and drying agent*



The process of setting the detergent and drying agent dispenser is described in the ADJUSTMENT INSTRUCTIONS.

## 24V AC or 230V AC power supply for detergent and drying agent dosing via relay 9/J71 and relay 11/J73



The machine is supplied with a 230V closing function between J71-101 and J71-102.

The detergent and drying agent dosage system can take its power from two relays on the data card. The relays can be dead, with no power supply, or they can be connected to a 24V AC or 230V AC supply to power the dosage system. Each relay has a contact for connecting the equipment. Relay 9 for detergent is connected via a 3-pin J71 contact. Relay 11 for drying agent is connected via a 2-pin J73 contact.



- For correct connection at X10, see the machine's wiring diagram.
- 230V AC equipment should not draw more than 1.5A.
- 24V AC equipment should not draw more than 1.5A.

The ADJUSTMENT INSTRUCTIONS chapter in the service manual describes when and how the relays must be switched on (see section “setting options for relay 9/J71 and relay 11/J73”).

### Relay 9/J71. Dead closing function (230V/400V machine)

To use the closing function without a power supply, follow these instructions:

- Disconnect the blue 0.75mm<sup>2</sup> wire from connector N1 or N2 in the electrical cabinet to contact J71-102.
- Disconnect the black 0.75mm<sup>2</sup> wire from connector X10 to contact J71-105.
- Contact the equipment to be controlled to contacts J71-101 and J71-105.

### Relay 9/J71. Relay 9. 24V AC version (230V/400V 3-phase machine)

To connect a 24V AC power supply to the contact, follow these instructions:

- Disconnect the blue 0.75mm<sup>2</sup> wire from connector N1 or N2 in the electrical cabinet to contact J71-102.
- Disconnect the black 0.75mm<sup>2</sup> wire from connector X10 to contact J71-105.
- Connect a red 0.75mm<sup>2</sup> wire from connector 0V in the electrical cabinet to contact J71-102.
- Connect a red 0.75mm<sup>2</sup> wire from the 8-pin contact on the data card labelled J69-8 (24V) to contact J71-105.
- Contact the equipment to be controlled to contacts J71-101 and J71-102. There will then be two connectors on contact J71-102.

**Relay 11/J73. Dead closing function (230V/400V 3-phase machine)**

To use the closing function without a power supply, follow these instructions:

- Contact the equipment to be controlled to contacts J73-103 and J73-104.

**Relay 11/J73. 230V AC version (400V 3-phase machine)**

To connect a 230V AC power supply to the contact, follow these instructions:

- If a 230V AC version of J71 is fitted:  
Connect J71-105 to J73-104 using a black 0.75mm<sup>2</sup> wire.
- If J71 is not fitted or is not a 230V AC version:  
Connect a black 0.75mm<sup>2</sup> wire from connector X10 to contact J73-104.
- Connect the equipment to be controlled between contact J73-103 and connector N1, N2 or N3 in the electrical cabinet.

**Relay 11/J73. 230V AC version (230V 3-phase machine)**

To connect a 230V AC power supply to the contact, follow these instructions:

- If a 230V AC version of J71 is fitted:  
Connect J71-105 to J73-104 using a black 0.75mm<sup>2</sup> wire.
- If J71 is not fitted or is not a 230V AC version:  
Connect a black 0.75mm<sup>2</sup> wire from connector X10 to contact J73-104.
- Connect the equipment to be controlled between contact J73-103 and connector X10 in the electrical cabinet.

**Relay 11/J73. Relay 11. 24V AC version (230V/400V 3-phase machine)**

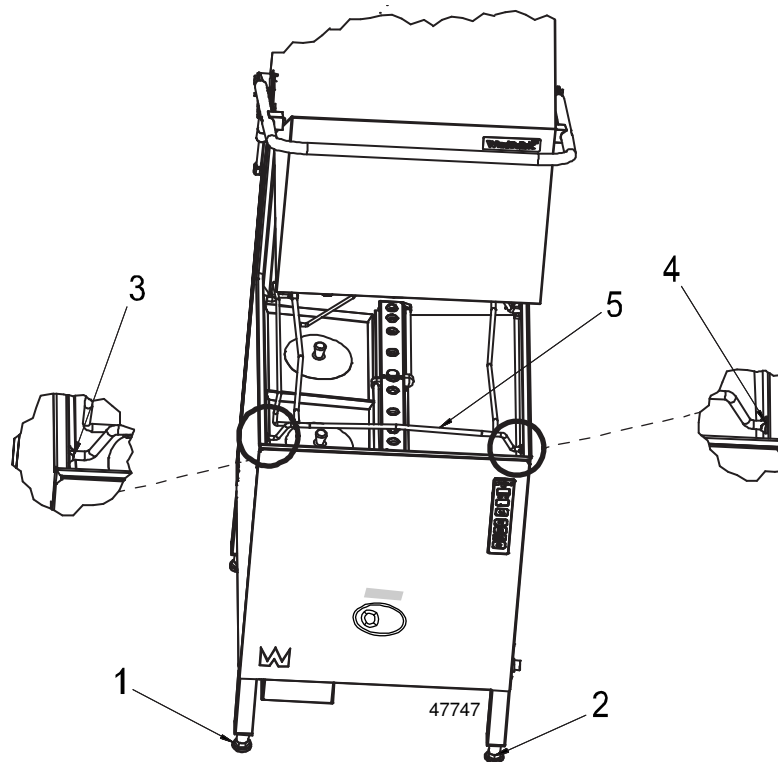
To connect a 24V AC power supply to the contact, follow these instructions:

- If a 24V AC version of J71 is fitted:  
Connect J71-105 to J73-104 using a red 0.75mm<sup>2</sup> wire.
- If J71 is not fitted or is not a 24V AC version:  
Connect a red 0.75mm<sup>2</sup> wire from the 8-pin contact on the data card labelled J69-8 to contact J73-104.
- Connect the equipment to be controlled between contact J73-103 and connector X10 in the electrical cabinet.

## Installation

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### 3.5.7 Adjustment of hinged basket conveyor



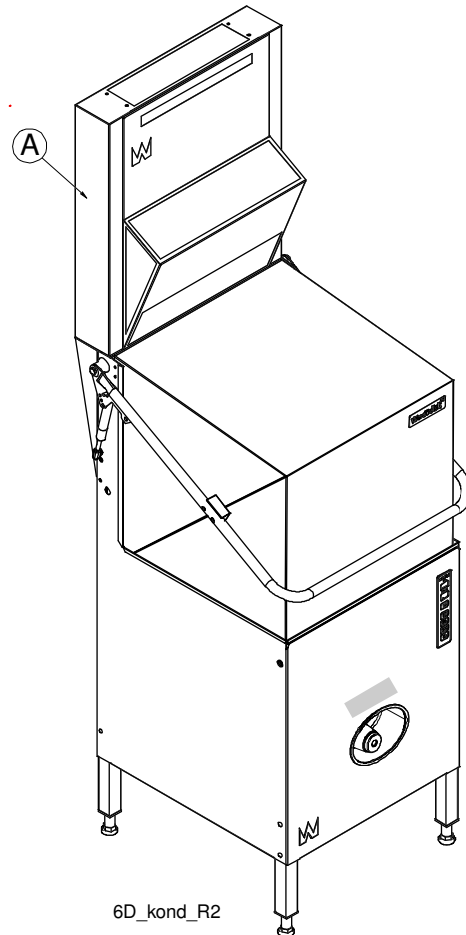
- Adjust the machine so that it is level by adjusting all four feet so that they are in full contact with the floor. Use a spirit level.
- Fill the machine.
- Lift the basket conveyor (5) up and down and adjust leg 1 and leg 2 until the basket conveyor is in the middle of both supports 3 and 4.
- The legs must be adjusted in pairs if any further adjustment is required (to the side, forwards or backwards).

## Installation

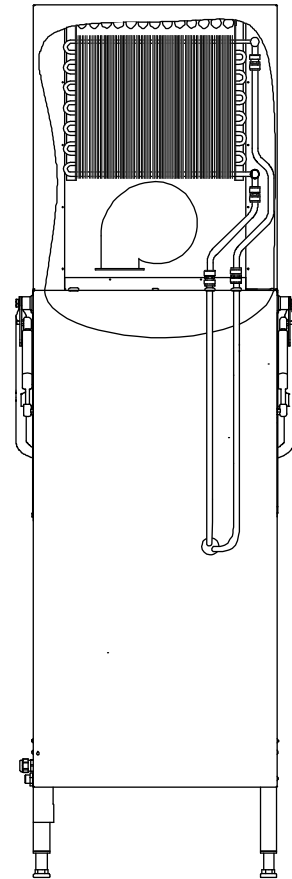
### 3.5.8 Condensation unit with heat recovery through the heat recovery unit (option)



Always use cold water connection if the machine has a condensing unit.

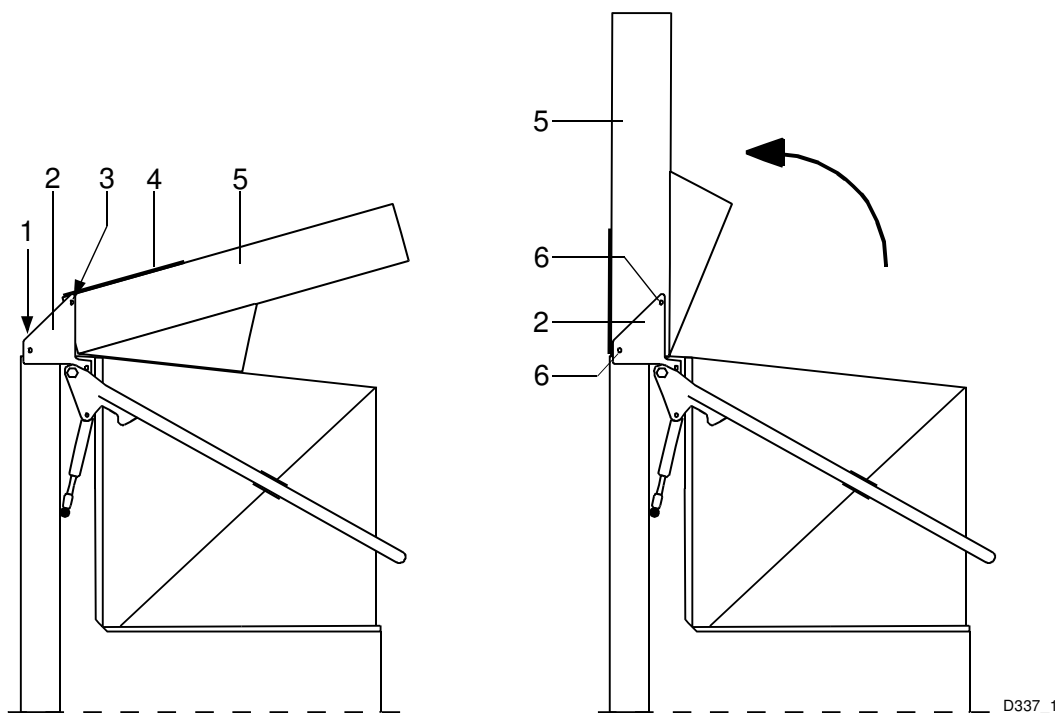


6D\_kond\_R2



*A=Condensing battery*

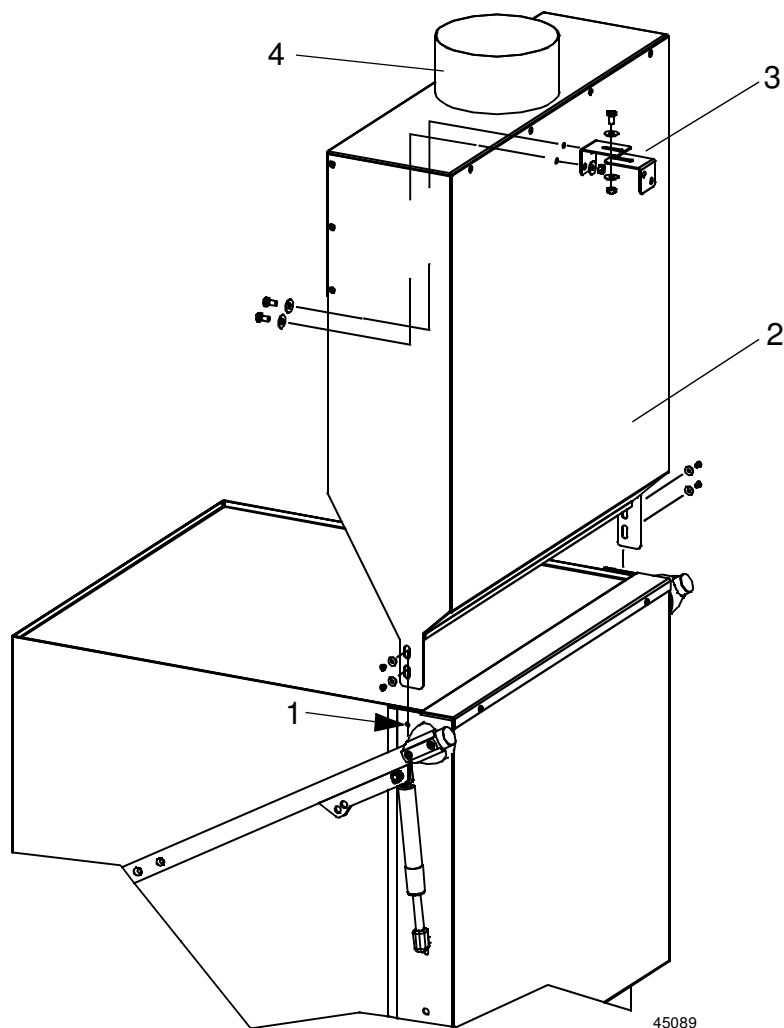
## Fitting the condensation unit



1. Position of the mounting points for the condensation unit
2. Bracket
3. Screw
4. Cover plate
5. Condensing unit
6. Screw and washer

- When the machine is delivered, the condensation unit (5) is folded down on top of the machine. It is fastened to the bracket (2) with screws (3) during transport. Remove the screws.
- The screws used to fit the condensation unit on the machine are screwed into the mounting points on top of the machine (1). Remove the 5 screws.
- Remove the cover plate (4).
- Lift up the condensation unit (5) and fasten it to the machine at (1) using the five screws and the flange provided.
- Fasten the condensation unit to both brackets (2) with the screws and washers at (6).
- Fit the cover plate (4). The screws for the cover plate are supplied in a plastic bag.

### 3.5.9 Steam hood with extractor (option)



#### *Steam hood with extractor*

1. Existing screws
  2. Steam hood
  3. Bracket
  4. Connection for ventilation  $\varnothing$  160 mm
- Undo the existing M4 screws at (1).
  - Replace the existing screws and washers with the longer M4 screws and the larger washers provided. The steam hood (2) is fastened to (1) using these screws.
  - Screw one bracket (3) firmly to the wall behind the machine. The other bracket must be put in the corresponding position on the back of the steam hood. Two holes  $\varnothing$  7 mm must be drilled through the plate.
  - Screw both the brackets (3) together with the screws, washers and nuts provided.
  - The ventilation duct is connected to (4).

## 3.6 Installation and connection of auxiliary equipment and options

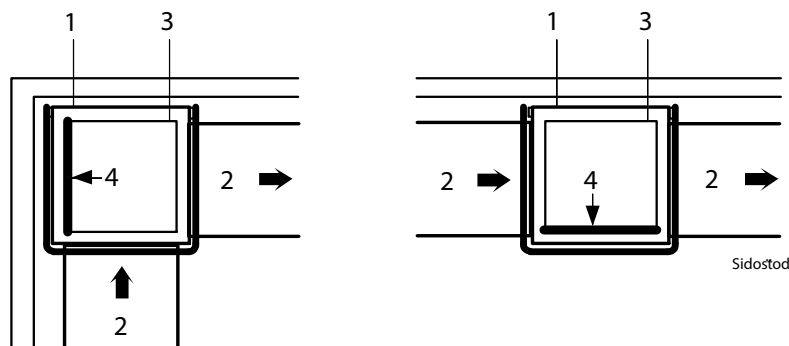


- Once the machine is in place and has been adjusted horizontally and vertically, the auxiliary equipment can be fitted.
- The machine can be equipped with a number of options. Check what your machine is equipped with, which depends on the model, machine type and country.

The various options normally place no specific requirement on the installation.

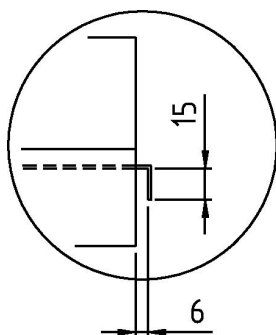
### 3.6.1 Sinks and conveyors

The machine can be positioned so that it can be straight-loaded or corner-loaded. Depending on the position chosen, the removable side support (4) on the basket conveyor must be positioned as shown in the figures below.



*Position of the side support*

1. Dishwasher
2. Sink
3. Basket conveyor
4. Side support

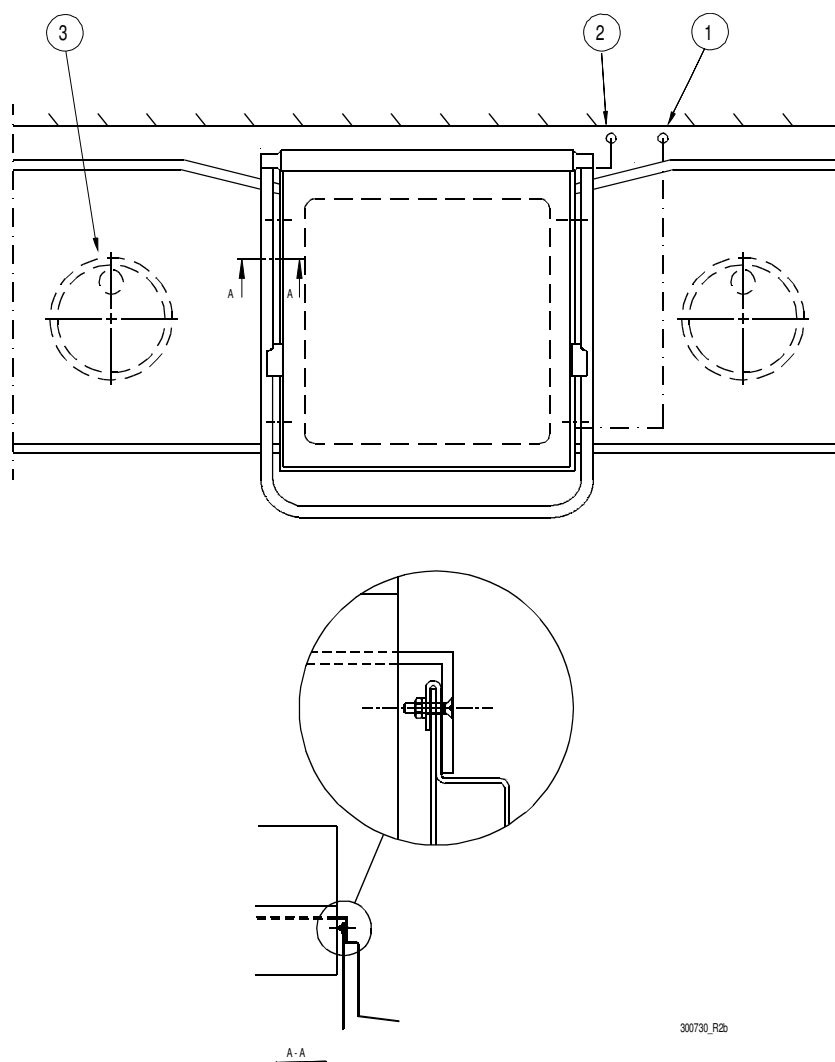


300730\_R1a

*Detail of sink cover*

The connection profile must look like the one shown in the drawing. The distance of 6 mm may be reduced, but must not be less than 3 mm.

## Connection to the left- or right-hand side of the machine



1. Water connection
2. Electrical connection
3. Floor drain

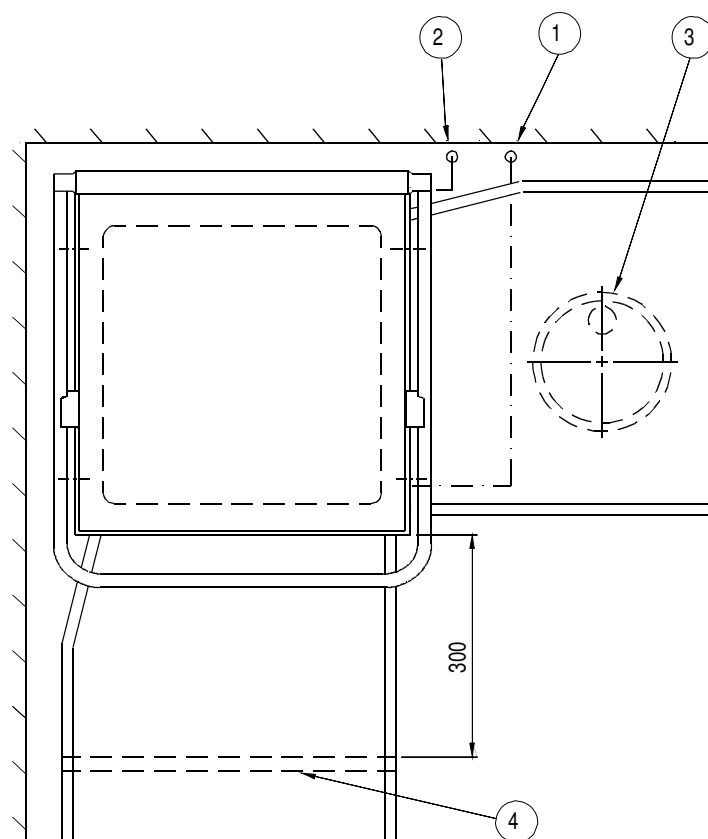
- Attach the sink connection to the machine and then adjust.
- Drill two  $\varnothing 4.5$  mm holes through the sink connection and the machine, approx. 100 mm from each outer edge.
- Countersink the holes.
- Seal with silicone between the connection and the machine.
- Secure the sink with countersunk M4 screws, grommets on the outside surface and nuts. Alternatively, you can secure the sink to the wall with wall brackets.

Use a spirit level to check that the sinks are horizontal and adjust the height, if necessary.

## Connection to the front of the machine

If the machine is to be corner-loaded, there must be at least 300 mm of free space in front of the machine to allow the electrical cabinet and the door of the storage cabinet for detergent and drying agent (option) to be opened.

The legs on the sink connected to the front of the machine must be at least 300 mm away from the machine to allow the machine to be accessed for servicing.



300730\_R2c

1. Water connection
2. Electrical connection
3. Floor drain
4. Legs

- Attach the sink connection to the machine and then adjust.
- Seal with silicone between the connection and the machine.
- Secure the sink to the wall with wall brackets.

Use a spirit level to check that the sinks are horizontal and adjust the height, if necessary.

## 3.7 Trial operation

Prepare the machine for a trial run by following the INSTRUCTIONS FOR USE. The instructions describe the measures that must be taken to prepare the machine for operation.

### 3.7.1 Start-up schedule

|                               |
|-------------------------------|
| <b>Machine type:</b>          |
| <b>Machine serial number:</b> |
| <b>Installation date:</b>     |

Read the installation and user manuals carefully. Then check the following points:

#### 1. Check:

- Water and drain connections
- That the dishwasher stands level
- Detergent and drying agent
- That the filters and level pipe are in place
- That the overheating protection device is reset

#### 2. Filling the machine:

- Turn on the power switch and any circuit breakers
- Close the hood
- Fill the machine with water in accordance with the INSTRUCTIONS FOR USE

(Check the non-return valve located after the booster heater if the machine does not fill.)

- Bleed the hood cylinder (option) as per the manual

#### 3. Start the machine:

- Check the direction of rotation of all pumps  
NB! If the direction of rotation is wrong, two phases should be switched at the power switch.

#### 4. Check the setting of the reference values:

- All the reference values have been set to the recommended values on delivery
- Check the temperatures.

**5. Run a number of washes complete with loads and check:**

- There are no water leaks
  - The hood switch functions
  - The automatic hood functions (option)
  - Autostart function (option)
  - The water temperatures are maintained
  - The washed items are clean
  - The dishware dries
- N.B.: The equipment for detergent and drying agent is roughly set at the factory; contact your detergent supplier for a more precise setting.

**6. Final check: Empty the machine and turn off the power using the power switch**

- Re-tighten all connections on contacts and any circuit breakers
- Set all the circuit breakers to the ON position
- Display the maintenance instructions supplied with the machine.

**7. Train the dishwashing personnel**

- Washing
- Care (daily, weekly and other frequencies)
- Recommendation for annual service

### 3.8 Documentation



For correct use and servicing, it is essential that the documentation accompanying the machine is made available to personnel who will be using the machine. The installation and user manual, which describes handling and care among other things, should be stored near the machine.

## 4. Operating instructions



Read the chapters GENERAL INSTRUCTIONS and SAFETY INSTRUCTIONS carefully before starting work.



This chapter describes what must be done with the machine:

- Before washing
- How washing should be performed
- After completed washing
- In the event of error messages and troubleshooting

The use of the machine is dependent on how the machine is equipped.



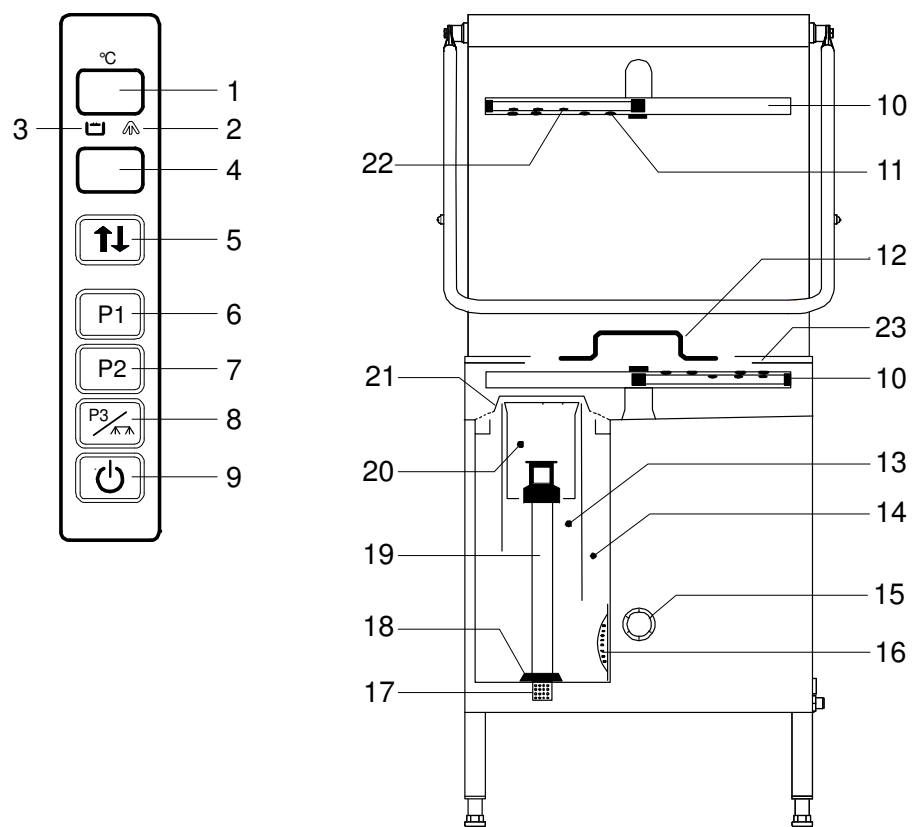
If the machine will not be used for a longer period, the power to the machine should be turned off using the power switch, the water supply turned off and machine should be left open.



- The machine can also be connected to a WD-PRM6/7.
- The procedure for start-up, washing, etc. is described in the manual for the WD-PRM6/7.

## 4.1 Before washing

### 4.1.1 Machine design



6D\_uppbygggn\_R1

## Operating instructions

---

1. Display for temperature during operation. Together with display (4), it shows error messages.
2. Final rinse indicator. The symbol is lit while the machine is filling up, during the final rinse phase and when the cleaning programme is run after a completed washing cycle. The symbol flashes if the hood is opened during the washing cycle or if the final rinse water has not reached the correct rinse temperature when the rinsing phase is due to start. The machine continues washing until the correct rinse temperature has been reached.
3. Symbol for washing function. After the machine is started, the symbol lights up when the tank is full. The symbol flashes if the water level in the tank is too low.
4. Display for programme. The remaining washing time is shown while the programme is running.
5. Button for closing or opening the hood. (On machines with an automatic hood.)
6. Button for washing programme 1. If the machine has a drain pump, P1 is used to start the drain pump and empty the tank after washing.
7. Button for washing programme 2.
8. Button for washing programme 3. When the machine is in shut-off mode, P3 is used to start internal rinsing when the cleaning programme is used to clean the machine.
9. Button to switch the power on or off. This button is also used to reset alarms, and to move to service mode. In service mode, the operator can change the washing temperature and time for the different programmes.
10. Washing and rinsing arm
11. Wash nozzle
12. Autostart switch (optional: if the machine has this option, the hood is closed automatically when a basket is loaded into the machine.)
13. Tank for recirculating rinse water
14. Wash tank
15. Filter for recirculating rinse
16. Pump filter
17. Drain filter (on machines with a drain pump)
18. Rubber sleeve
19. Level pipe (if the machine is connected to a WD-PRM6 pre-rinse machine, there will be no level pipe. This will then be replaced with a bottom filter).
20. Filter for recirculating rinse
21. Tank filter and cover plates
22. Rinse nozzle
23. Hinged basket conveyor

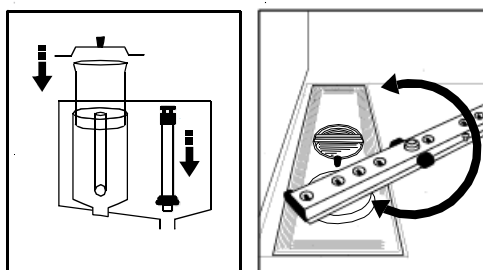
In the following chapter, figures are given in brackets to clarify what needs to be done. These numbers refer to image and list above.

## 4.1.2 Preparations before filling

Check and fit:



- That the dishwasher and all removable components have been cleaned. If not – clean them!
- That there is no dirt in the nozzles in the washing and rinsing arms (11, 22)
- That all removable parts are in place, drain filter (17) (on machines with drain pump only), level pipe (19), filter for recirculating rinse (20), tank filter and cover plates (21).
- That the rubber sleeve (18) must seal against the base plate
- That the stopcock is open
- The amount of detergent and drying agent
- Check that the lower washing arm can rotate freely



- That the power switch is in the ON position

Remember:

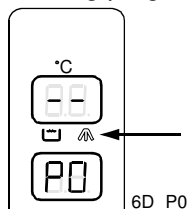


- Ordinary washing-up liquid must not be used in the machine or for soaking. Contact your detergent supplier regarding the choice of a suitable detergent. Washing-up liquid causes a build-up of foam, produces poor wash results and can damage the machine.
- Steel wool must not be used for pre-treating the dishware.
- Only detergent and drying agent intended for industrial machines may be used.
- If using liquid detergent and drying agent, the same make and type of detergent and drying agent should be used.
- If the machine is designed for glass washing and equipped with a condensing unit, detergent intended for aluminium should be used.
- If the machine is equipped with a condensing unit, dishware should be removed from the machine as soon as the condensation cycle is complete so that re-condensation does not occur.

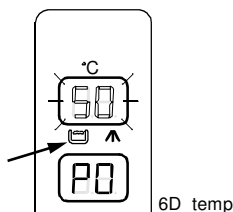
## Operating instructions

### 4.1.3 Filling and heating the machine

- Switch on the power using the 0/1 button (9) on the panel.
- Close the hood. On machines with automatic hood lift, the hood is closed by pressing button (5). The filling and heating process will begin.
- The display (1) shows two dashes "--" until the machine has been filled. The display (4) shows "P0". P0 is a pause mode which indicates that no washing programme has been selected. The symbol (2) is lit.



- Once the dishwasher is full, the symbol (3) lights up and the display (1) shows the temperature of the washing water. If the washing temperature falls below the set value by more than 5 °C, the temperature display flashes. The temperature on the display will also flash if the washing temperature is below 50 °C.



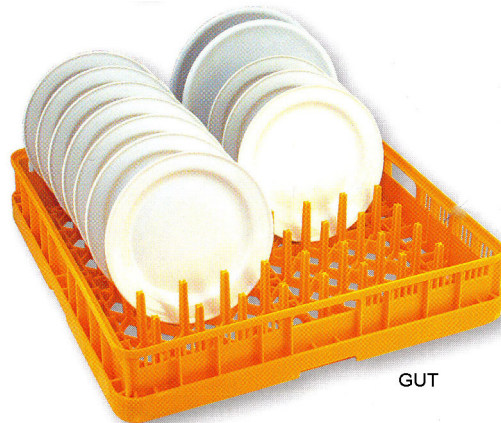
- The water in the washing tank will continue to be heated until the correct washing temperature has been reached. The heating time is dependent on incoming water temperature, the power output of the booster heaters and any extra equipment. The normal operating temperature for the washing phase is 60 °C. The machine can be set up so washing cannot start until the correct washing temperature has been reached.
- Once the correct temperature has been reached, the washing pump will start and run for a short period to mix the detergent.

## 4.2 Washing

### 4.2.1 Positioning of dishware in baskets



The machine is supplied with washing baskets depending on the equipment level. The washing baskets are used according to the following:



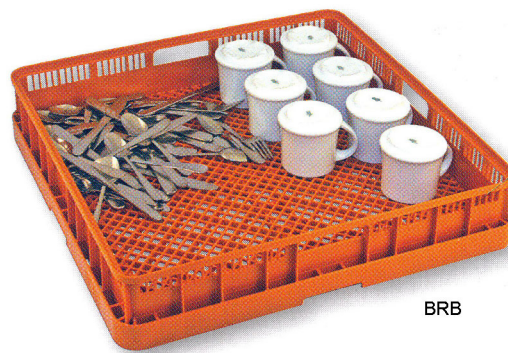
GUT

*The yellow basket is used for side plates, trays, plates, etc.*

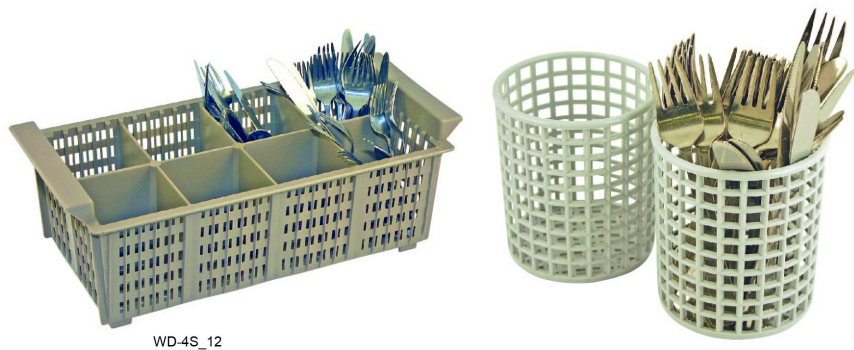


BLG

*The blue basket is used for glasses, cups and canteens*



*The brown basket is used for cutlery during the first wash*



*Cutlery must therefore be placed in designated baskets before the second wash, the baskets above are placed in the blue basket*

## 4.2.2 Selecting a programme

The control panel has three programme buttons: P1, P2 and P3.

- P1=Lightly soiled items (e.g. trays and glassware)
- P2=Normal load
- P3=Heavily soiled items

The washing temperature and chemical washing time for each programme is set on delivery. The operator can change these values if required.

### 4.2.3 Changing the washing temperature and washing time

The factory setting for the washing temperature is 60 °C. The operator can adjust the temperature to between 55 and 70 °C.

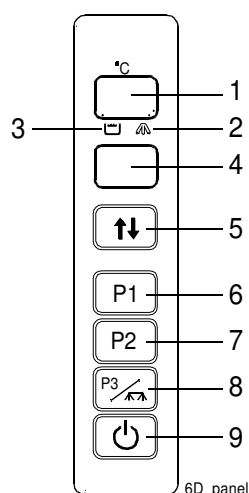
The chemical washing times for each programme are set on delivery to:

- 0.9 min. (programme P1)
- 1.5 min. (programme P2)
- 3.0 min. (programme P3)

The washing times can be adjusted between 0.4 and 4.0 minutes.

### Changing the values. Selecting service mode

The machine must be set to service mode when the operator needs to change a value. This is done using the control panel. The values that can be changed flash. The displays and buttons have different functions than when the machine is in normal operating mode.



#### *The panel's functions in service mode*

1. Display for the table numbers and the row numbers of each table.
2. Symbol for final rinse.
3. Symbol for washing function.
4. Display of values and other information for all the row numbers in the tables.
5. Button for opening/closing the hood. (On machines with an automatic hood.)
6. Use the P1 button to move between the table rows or to reset the values to those last saved.
7. Use the P2 button to increase a value or move forwards between the tables.
8. Use the P3 button to reduce a value or move backwards between the tables.
9. Use the 0/1 button to enter or exit service mode.

## Operating instructions

All the values are laid out in tables, with each table containing a certain number of rows, one for each value. The table containing the values for the washing temperature and washing times for the different programmes is "0.0".

The values for washing temperature and washing times are on rows 01 to 04.

| Table 0.0  |                           |                   |
|------------|---------------------------|-------------------|
| Row number | Relates to                | Range of settings |
| 01         | Washing temperature       | 55 - 70 °C        |
| 02         | Washing time programme P1 | 0.4 - 4.0 min.    |
| 03         | Washing time programme P2 | 0.4 - 4.0 min.    |
| 04         | Washing time programme P3 | 0.4 - 4.0 min.    |

To select service mode and change the washing temperature and washing time, follow these instructions:

- When moving to service mode, the washing programme must be finished.
- Press the 0/1 button (9). Both the displays will now show two horizontal dashes "--" and the machine will be in shut-off mode.
- Hold the 0/1 button (9) down for approx. 3 seconds until the top display (1) shows "0.0". When "0.0" appears on the display (1), the machine is in service mode.
- Press P1 (6). The upper display (1) will now show 01, the first row number in the table. The lower display (4) shows the set washing temperature, flashing. Only values that flash when displayed can be changed. If the temperature is to be changed, press P2 (7) to increase the value or P3 (8) to reduce the value.
- If the washing time for a programme is to be changed, use P1 (6) to move to the next row number in the table. For explanations of row numbers 01, 02, 03 and 04, see table "0.0" above.
- When the settings are complete, exit service mode by holding down the 0/1 button (9) for approx. 3 seconds until both displays show two horizontal dashes "--". The changed values are now saved.
- Return to normal operating mode by then quickly pressing the 0/1 button (9).

## Operating instructions

---

### 4.2.4 Washing



Make sure that the items are in a position where they cannot move out of the washing basket during the washing and rinsing phases.

- Remove large pieces of food by rinsing the dishes with a hand shower. The water in the hand shower must not exceed 40°C. Place the items to be washed in the basket.
- Open the hood. On machines with automatic hood lift, the hood is closed with the button (5).
- Select the programme. Slide the basket into the machine. If the machine is fitted with "autostart", the hood closes automatically and washing starts.
- Close the hood. The machine starts washing using the selected programme. The lower display (4) now shows the remaining washing time for the programme.
- The symbol (3) is lit during the washing phase.
- When the washing cycle finishes, the recirculating rinse starts and both symbols (2, 3) light up.
- Once the rinsing phase starts, the symbol (2) lights up. If the final rinse water has not reached the correct rinse temperature once rinsing starts, the symbol flashes and the machine continues washing until the rinsing water has reached the correct temperature.
- Do not open the hood until the programme has finished.
- If the hood is opened during the washing cycle, the machine will stop. If the hood is closed again, the programme will start from the beginning.
- When the machine has stopped, the selected programme appears on the display (4) and the hood opens automatically if the machine has an automatic hood. Remove the washed items and allow them to dry.



P0 is a pause mode and is used in the case of prolonged intervals between washes in order to maintain the tank temperature. The hood must be closed. The machine does not start in P0 mode.

- Press the programme button for the current programme once. "P0" appears on the display (4).
- Press the button again to return to the current programme.
- The hood must be opened and closed between each washing cycle.

## 4.2.5 Checking the wash result



The dishware should be checked after each wash for:

| PROBLEM            | CAUSES & MEASURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Starch spots       | <ul style="list-style-type: none"> <li>• <b>Scraping:</b> Important to remove as much food particles as possible before washing. This also means that the water in the machine does not need to be changed as often. Scrape better.</li> <li>• <b>Detergent and drying agent dosage:</b> If using liquid detergent and drying agent, the same make and type should be used. A service technician should be contacted to rinse the equipment with water when replacing the detergent and drying agent. The dosing affects both detergent and drying results of the dishware. The hardness level of the water affects the consumption of detergent. Contact the detergent supplier.</li> <li>• <b>Temperatures:</b> At incorrect temperatures the dishes will not be clean. Contact a service technician if you need to change the set values.</li> <li>• <b>Programme selection:</b> Programme with too short a washing time selected. Choose a programme with a longer washing time.</li> <li>• <b>Cleaning the machine:</b> Insufficient cleaning of the machine affects the results of the washing. Ensure better cleaning of the machine.</li> <li>• <b>Placing dishes in baskets:</b> Incorrectly placed items can mean that the washing water does not reach the items during washing and rinsing.</li> <li>• <b>Soaking:</b> Items with hard dried food. Soak the dishes in water. Do NOT use washing-up liquid.</li> </ul> |
| Misting            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Protein residues   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Detergent residues |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## 4.2.6 Changing the water



For the best washing results, it is important to change the water in the washing tank often. For normally soiled loads, the washing water should be changed after around 30 washes. Always change the water in the event of foam problems in the tank.

If IF09 appears on the display, this indicates that the water should be changed.

### Machines without a drain pump

- Check that the machine is in P0 mode.
- Open the hood. On machines with automatic hood lift, the hood is opened/closed with the button (5).
- Remove the tank filter and cover plates (21) and clean them.
- Empty the machine by turning the level pipe (19) anticlockwise.
- When the tank is empty, turn the level pipe (19) clockwise and refit the tank filters and cover plates (21).
- Close the hood (on machines with automatic hood lift, the hood is opened/closed with the button (5)) and the machine is refilled.
- Check that the final rinse symbol (2) is lit.

### Machines with a drain pump (option)



N.B.! The hood must be open while the drain pump is running and the button P1 (6) is used to start and stop the drain pump.

- Check that the machine is in P0 mode.
- Open the hood. On machines with automatic hood lift, the hood is opened/closed with the button (5).
- Press the 0/1 button (9).
- Remove the tank filter, cover plates (21), level pipe (19) and drain filter (15), and clean them.
- Press (P1 (6) to start the drain pump. "dP" appears on the display (1). The display (4) shows the remaining run time for the drain pump.
- When the tank is empty, refit the level pipe (19), tank filters, cover plates (21) and drain filter (15).
- Press the 0/1 button (9).
- Close the hood (on machines with automatic hood lift, the hood is opened/closed with the button (5)) and the machine is refilled.
- Check that the final rinse symbol (2) is lit.

## 4.3 After use – Cleaning



HACCP is a preventive inspection system to ensure hygiene requirements are met during the washing process and cleaning of the machine. As a result of its design, the machine meets strict hygiene requirements. Regular, thorough cleaning is also important from a hygiene perspective. A machine that is properly cleaned helps produce a good wash result, reduces the risk of dirt accumulating, increases the service life of the machine and reduces the risk of emergency shutdown.

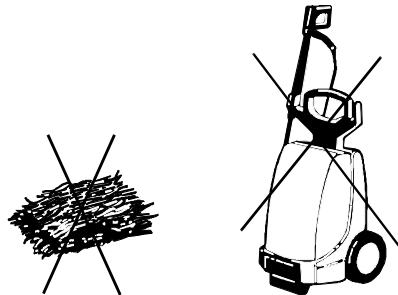
See the WEB Tool manual for the HACCP options.

### 4.3.1 Incorrect cleaning methods



N.B.! An incorrect cleaning method may damage the machine. The following points must be observed:

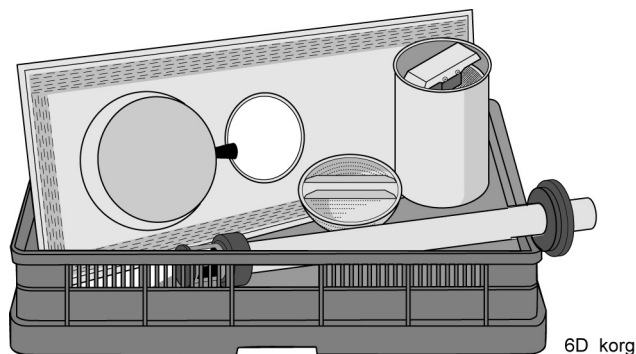
- Do NOT use steel wool as it will cause corrosion to form on the machine.
- If detergent is used, it must not contain abrasives. Detergents containing abrasives will damage the stainless steel panels.
- The exterior of the machine must not be hosed. Water can enter the machine and damage the control panel and electrical equipment.
- Pressure washers and steam can damage the machine and must NOT be used for cleaning purposes. Never use a pressure washer to clean the floor within 1 metre of the machine. The supplier cannot be held liable for any faults caused by the use of pressure washers on the machine and any such use may invalidate the warranty. There is a risk of splashing even if the floor is hosed down.



WD9\_07

*Steel wool and pressure washers must not be used for cleaning*

### 4.3.2 Emptying, internal machine rinsing

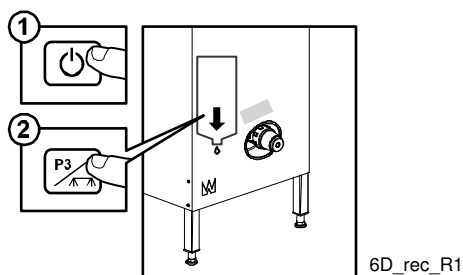


*Position of cleaned components after washing*

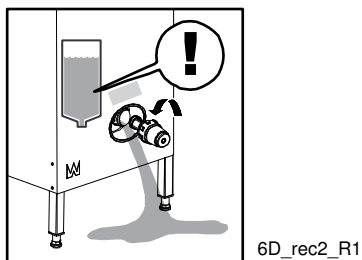
#### Emptying the recirculating rinse tank



The tank for the recirculating final rinse is emptied during the cleaning programme, which is started with button "P3".



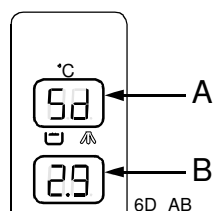
Note that emptying is necessary when you want to unscrew and clean the filter, because otherwise the water from the tank will spill out onto the floor.



## Machines without a drain pump

When the machine is switched off, the number of baskets washed is displayed for around 5 seconds.

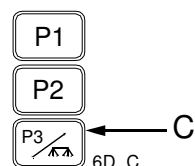
The upper display then shows "Sd", which indicates that the machine is in shut-down mode. For 5 minutes, the machine will still be powered on. Emptying and internal cleaning must be done within this time. The time until the machine is powered off is counted down with a flashing bar on the lower display. The machine then switches off automatically.



*A=Indication of shut-down mode*

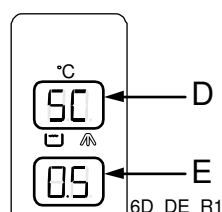
*B=Countdown of time*

- Open the hood. Remove the filters and cover plates (21) and the filter (20). Empty the washing tank by turning the level pipe (19) a quarter of a turn. Press button 0/1 (9).
- Close the hood. Press button "P3" (8).



*The programme button "P3" (C) is used to start the cleaning programme and empty the tank for the recirculating rinse*

- The upper display will show "SC", the internal rinsing will start and the tank for the recirculating rinsing will be emptied. The lower display shows the remaining rinsing time. When rinsing has finished, the hood opens automatically if the machine has an automatic hood lift, the panel goes out and the machine is powered off.



*D=Indication of cleaning programme*

*E=Countdown of time*

## Operating instructions

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Note: It is important to run the cleaning programme with button "P3" to drain the recirculating rinse tank (13) of water. If this is not done, the water will spill out onto the floor when the filter (15) is to be cleaned.

- Open the hood. Check that the washing and rinsing nozzles (11, 22) are clean and that no objects have fallen and lodged in the machine. Check also that the collection channel for water around the top edge of the dishwasher is clean.
- Clean the level pipe (19), cover plates and filters (20, 21).
- Store the cleaned parts in a washing basket. Ensure that the level pipe's rubber seal (18) does not become deformed, by allowing it to hang free.
- Leave the machine with the hood open.

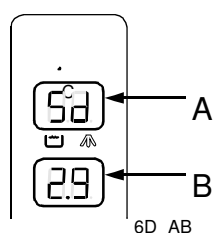
## Machines with a drain pump (option)



The "P1" button (6) is used to start and stop the drain pump.

When the machine is switched off, the number of baskets washed is displayed for around 5 seconds.

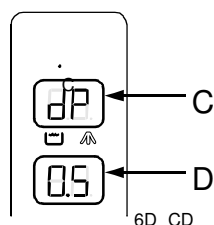
The upper display then shows "Sd", which indicates that the machine is in shut-down mode. For 5 minutes, the machine will still be powered on. Emptying and internal cleaning must be done within this time. The time until the machine is powered off is counted down with a flashing bar on the lower display. The machine then switches off automatically.



*A=Indication of shut-down mode*

*B=Countdown of time*

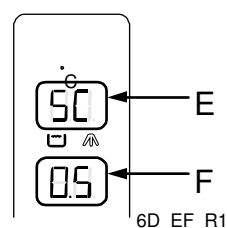
- Open the hood. Remove the filters and cover plates (21), the filter (20) and level pipe (19). Press button "0/1" (9).
- Press button "P1" (6). "dP" appears on the display (1) and the drain pump starts. It stops automatically after a set period. The display (4) shows the remaining run time for the drain pump.



*C=Indication of drain pump*

*D=Countdown of emptying time*

- Once the machine has been emptied, close the hood. Press button "P3" (8). The upper display shows "SC" and internal rinsing starts. The lower display shows the remaining rinsing time. When rinsing has finished and the rinsing water has been drained, the hood opens automatically if the machine has an automatic hood lift, the panels go out and the machine is powered off.



*E=Indication of cleaning programme*

*F=Countdown of time*

## Operating instructions

---



Note: It is important to run the cleaning programme with the “P3” button to also drain the recirculating rinse tank of water. If this is not done, the water will spill out onto the floor when the filter (15) is to be cleaned.

- Open the hood. Check that the washing and rinsing nozzles (11, 22) are clean and that no objects have fallen and lodged in the machine. Check also that the collection channel for water around the top edge of the dishwasher is clean.
- Remove and clean the drain filter (17). Clean the level pipe (19), cover plates and filters (20, 21).
- Store the cleaned parts in a washing basket. Ensure that the level pipe's rubber seal (18) does not become deformed, by allowing it to hang free.
- Leave the machine with the hood open.

### 4.3.3 Daily cleaning

#### Internally

The interior of the machine will be rinsed clean when the machine is switched off in accordance with the manual.

#### Externally

Wipe the outside of the machine with a soft, damp cloth.

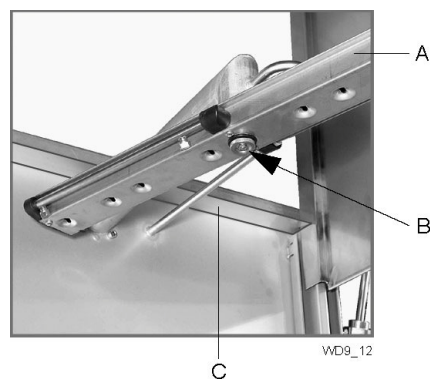
- If detergent is used, it must not contain abrasives. Detergents containing abrasives will damage the stainless steel panels.
- The exterior of the machine must not be hosed. Water can enter the machine and damage the control panel and electrical equipment.

### 4.3.4 Cleaning each week or as required

Weekly cleaning should be more thorough than daily cleaning. If the information message "IF10" is shown in the display, weekly cleaning needs to be performed.

In addition to the daily cleaning measures, clean the machine as per these instructions:

- Remove the wash arms. Loosen the lock nut (B) in the centre of the washing arm and remove the washing arm. Check and clean the nozzles if necessary. Rinse the wash arms and refit them.
- Clean the top of the splash strip (C). The strip is inside the top of the machine at the back.



*A=Upper wash arm*

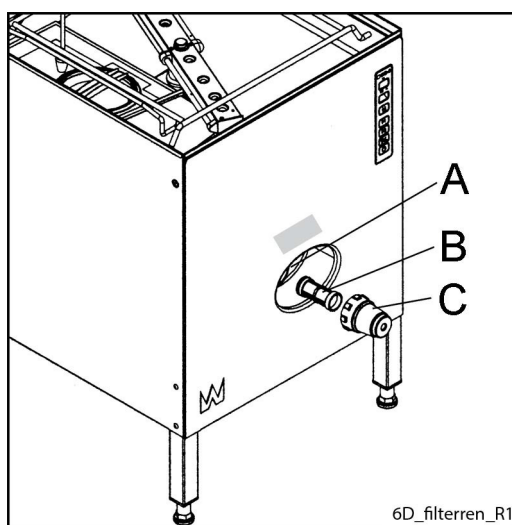
*B=Lock nut*

*C=Splash strip*

## Cleaning the filter

When cleaning the filter (15), the tank (13) for the recirculating rinse water must be empty. The tank is emptied during the daily cleaning programme and when internal rinsing is started with the P3 programme button.

- Unscrew the cover (C) and remove the filter (B). Rinse the filter and cover.
- When refitting, it is important to fit the filter correctly to ensure that it is not damaged and that no leakage occurs.
- First fit the filter (B) in the filter housing (A) then ensure that it is sitting straight.
- Fit the cover (C), (does not need to be screwed tight).



*Removing/fitting the filter*

*A=Filter housing*

*B=Filter*

*C=Cover*



Note that the tank for recirculating rinse water should not be full when the filter is unscrewed, or water will spill out into the dishwashing room.

### 4.3.5 Cleaning in the event of an alarm or 1 time / year

The machine's condensing battery (option) should be cleaned at least once a year.

Remove the panel and rinse clean the heat recovery unit.



N.B.! When rinse cleaning the heat recovery unit and the base of the battery box, do not use more water than the drain under the battery can remove from the machine. The battery must be cleaned with hot water at normal pressure. Do not aim the water directly at the fan motor. The electric motor may be damaged if it is rinsed with high-pressure water.

## Operating instructions

### 4.3.6 Operating problems



Check:

- Has the appliance been used according to the instructions?
- Are all the removable parts in their correct place?
- Is the main switch in the ON position?
- Are there any error messages on the display?
- Are the fuses in the electrical cabinet still intact? Ask service personnel to check the fuses.

### Error messages

During operation, various alarms or information messages can appear on the panel's display. There is a distinction between IF and Er alarms. IF alarms can normally be dealt with by the operator. If there is an Er alarm, the service personnel must be called. Some IF alarms that have been dealt with by the operator a few times will eventually change to Er alarms, meaning that the service personnel must be contacted.

Each alarm has a number: 01, 02, 03 etc. The top display shows either IF or Er. The bottom display shows the alarm number.

| CODE        | CAUSE                                                                              | ACTION                                                                                                                                                  |
|-------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| IF01 / Er01 | The time needed to fill the tank has been exceeded.                                | The alarm can be reset by pressing 0/1 on the panel.                                                                                                    |
|             | The level pipe is not in place.                                                    | Fit the level pipe.                                                                                                                                     |
|             | The level pipe's rubber sleeve is not sealing against the bottom plate.            | Adjust the level pipe. Check that the rubber sleeve has not been damaged. Replace the sleeve, if it is damaged.                                         |
|             | The water stopcock is closed.                                                      | Open the stopcock.                                                                                                                                      |
| Er02        | It has taken too long for the machine to heat up, compared with the previous time. | The alarm can be reset by pressing 0/1 on the panel. Contact service personnel if the alarm recurs.                                                     |
| Er04        | Faulty temperature sensor.                                                         | Contact service personnel.                                                                                                                              |
| Er05        | Faulty temperature sensor.                                                         | Contact service personnel.                                                                                                                              |
| IF06 / Er06 | The booster heater is not cooled during the final rinse phase.                     | The alarm can be reset by pressing 0/1 on the panel.                                                                                                    |
|             | The water stopcock is closed.                                                      | Open the stopcock. Close the hood.                                                                                                                      |
| IF09        | Alarm for changing the water.                                                      | Change the water. The alarm can be reset by pressing 0/1 on the panel. If the alarm is not set to stop the machine, the washing programme can continue. |
| IF10        | Alarm for weekly cleaning.                                                         | The machine must be cleaned more thoroughly than during daily cleaning. The alarm can be reset by pressing 0/1 on the panel.                            |
| Er12        | The break tank has not been filled with water.                                     | The alarm is reset automatically when the tank is full.                                                                                                 |
| Er13        | The level sensor in the break tank indicates an incorrect signal.                  | The alarm is reset automatically when the tank is full.                                                                                                 |
| Er16        | The temperature in the booster heater is too low.                                  | The alarm can be reset by pressing 0/1 on the panel. Contact service personnel.                                                                         |
|             | Low level in the break tank.                                                       | The alarm can be reset by pressing 0/1 on the panel. Contact service personnel.                                                                         |

## Operating instructions

| CODE | CAUSE                                                                                                           | ACTION                                                                                                                |
|------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Er23 | The hood does not open when the automatic hood opener is used.                                                  | The alarm can be reset by pressing 0/1 on the panel. Contact service personnel if the fault recurs.                   |
| Er27 | The machine has lost all its set values.                                                                        | Contact service personnel.                                                                                            |
| IF29 | Low water level in the recirculating rinse tank.                                                                | The alarm can be reset by pressing 0/1 on the panel.                                                                  |
| IF30 | Low water level in the washing tank before washing.                                                             | Check that the level pipe is closed. The alarm can be reset by pressing 0/1 on the panel.                             |
|      | The level pipe's rubber sleeve is leaking.                                                                      | Check that the level pipe's rubber sleeve has not been damaged.                                                       |
| IF31 | The tank for recirculating rinse water is not emptied when rinsing finishes. The filter in the tank is clogged. | Clean the filter. The alarm can be reset by pressing 0/1 on the panel. Contact service personnel if the alarm recurs. |
| Er32 | Non-return valve for final rinse is faulty.                                                                     | The alarm can be reset by pressing 0/1 on the panel. Contact service personnel if the alarm recurs.                   |
| Er33 | Non-return valve for recirculating rinse is faulty.                                                             | The alarm can be reset by pressing 0/1 on the panel. Contact service personnel if the alarm recurs.                   |
| IF34 | The detergent alarm.                                                                                            | The alarm can be reset by pressing 0/1 on the panel.                                                                  |
|      | The machine has run out of detergent.                                                                           | Check the amount of detergent and refill, if necessary.                                                               |
| IF35 | The washing tank does not fill with water.                                                                      | Open and close the hood to start the filling process. The alarm can be reset by pressing 0/1 on the panel.            |
| Er96 | The motor safety cut-out for the pump has tripped.                                                              | Contact service personnel.                                                                                            |
| Er97 | One digital input is shorted to ground.                                                                         | Contact service personnel.                                                                                            |
| Er98 | Communication fault between the CPU and the panel card.                                                         | The alarm can be reset by pressing 0/1 on the panel. Contact service personnel if the alarm recurs.                   |
| Er99 | Communication fault between the computer and panel cards.                                                       | The alarm can be reset by pressing 0/1 on the panel. Contact service personnel if the alarm recurs.                   |

## Operating instructions

### Troubleshooting

The following errors can be dealt with by the operator. If the problem persists, contact authorised service personnel.

| PROBLEM                                                                          | CAUSE                                                                   | ACTION                                                                                                               |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| No indication on the control panel display when the control button is pressed.   | Power switch off.                                                       | Switch on the power switch.                                                                                          |
| The machine does not fill with water.                                            | The incoming water stopcock is closed.                                  | Open the tap.                                                                                                        |
|                                                                                  | The door/hood is open.                                                  | Close the door/hood.                                                                                                 |
|                                                                                  | The level pipe is not in place.                                         | Fit the level pipe.                                                                                                  |
|                                                                                  | The level pipe's rubber sleeve is not sealing against the bottom plate. | Adjust the level pipe. Check that the rubber sleeve has not been damaged. Change the rubber sleeve if it is damaged. |
|                                                                                  | The rinse pipe nozzles are blocked.                                     | Clean the wash nozzles.                                                                                              |
| The machine fills slowly.                                                        | The rinse pipe nozzles are blocked.                                     | Clean the wash nozzles.                                                                                              |
| The machine does not stop filling.                                               | The level pipe is not in place.                                         | Fit the level pipe.                                                                                                  |
|                                                                                  | The level pipe's rubber sleeve is not sealing against the bottom plate. | Adjust the level pipe. Check that the rubber sleeve has not been damaged. Change the rubber sleeve if it is damaged. |
| The hood is not opened/closed properly.                                          | Air has got into the system.                                            | Bleed the hood lifting cylinder as per the manual.                                                                   |
| The machine does not start washing.                                              | The door/hood is open.                                                  | Close the door/hood.                                                                                                 |
|                                                                                  | Dishware is blocking the magnet in the door.                            | Remove the dishes in question.                                                                                       |
| Noise from the washing pump.                                                     | Low water level. Foam in the tank.                                      | Check the level. Change the water.                                                                                   |
| The machine stops in the middle of the washing cycle and starts taking in water. | The level pipe's rubber sleeve is not sealing against the bottom plate. | Adjust the level pipe. Check that the rubber sleeve has not been damaged. Change the rubber sleeve if it is damaged. |

## Operating instructions

| PROBLEM                                      | CAUSE                                                           | ACTION                                                                                                                     |
|----------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| The machine is not cleaning properly.        | The rinse and wash nozzles are clogged with dirt.               | Check and clean the nozzles.                                                                                               |
|                                              | There is too little detergent.                                  | Check the amount of detergent. The hose ("thick") must be submerged in liquid and the filter in the hose must be clean.    |
|                                              | The water in the tank is too dirty.                             | Change the water.                                                                                                          |
|                                              | Foam forming in the tank.                                       | Check that the washing temperature is not too low and that the correct detergent is being used.                            |
|                                              | Programme with too short a washing time selected.               | Choose a wash programme with a longer washing time.                                                                        |
|                                              | Dirt has dried on the dishware to be washed.                    | Soak the dishware before washing.                                                                                          |
|                                              | The dishware is incorrectly positioned in the baskets.          | Use the correct type of washing basket and accessories to ensure that the dishware is correctly positioned.                |
|                                              | Detergent and drying agent of another make than usual are used. | Use the same make and type as before. Rinse the hoses and pumps with water if necessary.                                   |
| The dishware has tipped over in the baskets. | The dishware is incorrectly positioned in the baskets.          | Put the dishware in the correct position.                                                                                  |
|                                              | Light dishware need washing.                                    | Use a net grid to hold the items.                                                                                          |
| Dishware does not dry.                       | The rinse nozzles are blocked.                                  | Check and clean the nozzles.                                                                                               |
|                                              | Too little rinsing agent.                                       | Check the amount of rinsing agent. The hose ("thin") must be submerged in liquid and the filter in the hose must be clean. |
|                                              | The washed items have been left in the machine.                 | Remove the washed items once the programme has ended.                                                                      |

When you contact service personnel, you will need to provide the following information:

- Machine type and model.
- Machine serial number and date when the machine was installed.
- A brief description of the problem. Are any fault codes shown in the display?
- What happened/was being done immediately before the fault occurred?

## 5. Technical information

The manufacturer reserves the right to make changes to the technical data.

| TECHNICAL DATA                                     |       |
|----------------------------------------------------|-------|
| Washing pump (kW)                                  | 0.9   |
| Pump motor, recirculating rinse (kW)               | 0.58  |
| Pump motor, final rinse (kW)                       | 0.58  |
| Booster pump (kW)                                  | 0.58  |
| Return pump, recirculating tank (kW)               | 0.045 |
| Drain pump (kW) *                                  | 0.04  |
| Booster heater (kW)                                | 9     |
| Tank heater (kW)                                   | 5.4   |
| Tank volume, chemical wash tank (litres)           | 45    |
| Tank volume, recirculating rinse (litres)          | 5.5   |
| Heat recovery fan (kW) *                           | 0.13  |
| Heat recovery fan, flow (m <sup>3</sup> /hour) *   | 250   |
| Heat recovery, cooling surface (m <sup>2</sup> ) * | 12    |
| Weight, machine in operation (kg)                  | 185   |
| Enclosure protection class (IP)                    | 45    |

\* Option

| CAPACITY AND OPERATING DATA               |         |
|-------------------------------------------|---------|
| Total washing time P1 (min.) *            | 1.2     |
| Total washing time P2 (min.) *            | 1.8     |
| Total washing time P3 (min.) *            | 3.3     |
| Max. capacity, baskets/hour (no.)         | 50      |
| Water consumption rinsing/programme (l)** | 1.0–1.5 |
| Sound pressure level, LPA (dBA) ***       | 60      |
| Sound power level LWA (dBA) ***           | 72      |

\* Factory setting. The wash time is adjustable.

\*\* In combination with WD-PRM6, the water consumption can be reduced further.

\*\*\* in accordance with EN 60 335-2-58, §ZAA.2.8 with instruments that satisfy class 1.

Measurements of the sound pressure level on site are performed in three places 20 cm from the edges of the front at a height of 1.55 m using a microphone.

When measuring sound power level, create an imaginary measurement area consisting of five sides at a distance of 1 m from all edges of the machine.

## Technical information

| CONNECTION, MACHINE                                                   |     |
|-----------------------------------------------------------------------|-----|
| Total connected load (kW)                                             | 9.9 |
| Main fuse 400 V 3N~(A) *                                              | 16  |
| Max. connection area 400V 3N~ (L1-L3, N, PE) Cu (mm <sup>2</sup> ) ** | 2.5 |

\* Other voltages on request

\*\* 2-metre-long cable included

| WATER, DRAIN AND VENTILATION CONNECTIONS                  |                 |
|-----------------------------------------------------------|-----------------|
| Water quality, hardness (°dH)                             | 2–7             |
| Water connection, hot/cold * (external thread) 5-65 °C    | R½"             |
| Drain connection, PP pipe (ø mm)                          | 50              |
| Water capacity, pressure (kPa)                            | 20              |
| Water capacity, flow (litres/min.)                        | 5               |
| Floor drain with effective trap, capacity (litres/second) | 3               |
| Heat load room, latent / sensitive / total (kW)           | 0.5 / 1.2 / 1.7 |

\* It may take longer to fill the machine if the water connection is colder than 55 °C.

| SIZE AND WEIGHT FOR TRANSPORT   |              |
|---------------------------------|--------------|
| Size (LxWxH) (mm) *             | 765x710x1560 |
| Weight, standard machine (kg) * | 140          |

\* Including packaging