

# **User Manual**

## **Washer extractor**

**W4400H, W4600H, W4850H, W41100H**

**Clarus Control**

**Type W4.H.**



**Electrolux**  
PROFESSIONAL



**WARNING:** ALL OPERATING AND MAINTENANCE PROCEDURES SHOWN ON THE NEXT PAGE OF THIS MANUAL MUST BE FOLLOWED DAILY FOR PROPER OPERATION OF YOUR MACHINE.

MAKE CERTAIN TO KEEP THIS MANUAL IN A SECURE PLACE FOR FUTURE REFERENCE.

PLEASE ENTER THE FOLLOWING INFORMATION AS IT APPEARS ON THE MACHINE(S) DATA PLATE(S).

MACHINE TYPE OR MODEL	
MACHINE SERIAL NUMBER(S)	
ELECTRICAL CHARACTERISTICS: _____ VOLTS, _____ PHASE, _____ HZ.	

**IMPORTANT SAFETY INSTRUCTIONS****WARNING -**

To reduce the risk of fire, electric shock, or injury to persons when using your appliance, including the following:

1. Read all instructions before using the appliance.
2. This machine must be securely bolted to an uncovered concrete floor.
3. This machine **MUST** be serviced and operated in compliance with manufacturers instructions.  
**CHECK DOOR LOCKS EVERY DAY FOR PROPER OPERATION TO PREVENT INJURY OR DAMAGE. IF THE DOOR LOCK FAILS TO OPERATE PROPERLY, PLACE THE MACHINE OUT OF ORDER UNTIL THE PROBLEM IS CORRECTED.**
4. Do not wash articles that have been previously cleaned in, washed in, soaked in, or spotted with gasoline, drycleaning solvents, or other flammable or explosive substances, as they give off vapors that could ignite or explode.
5. Do not add gasoline, dry-cleaning solvents, or other flammable or explosive substances to the wash water. These substances give off vapours that could ignite or explode.
6. Under certain conditions, hydrogen gas may be produced in a hot-water system that has not been used for weeks or more. **HYDROGEN GAS IS EXPLOSIVE.** If the hot-water system has not been used for such a period, before using a washing machine, turn on all hot-water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. As the gas is flammable, do not smoke or use an open flame during this time.
7. Do not allow children to play on or in the appliance. Close supervision of children is necessary when the appliance is used near children.
8. Before the appliance is removed from service or discarded, remove the door.
9. Do not reach into the appliance if the tub is moving.
10. Do not install or store this appliance where it will be exposed to the weather.
11. Do not tamper with controls.
12. Do not repair or replace any part of the appliance or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that you understand and have the skills to carry out.
13. Changing of fuses inside the washing machine may only be carried out by authorized personnel.
14. This machine **MUST** be connected to a dedicated electrical circuit to which no other lighting unit or general purpose receptacle is connected. Use copper conductor only.

## **NOTICE TO: OWNERS, OPERATORS AND DEALERS**

IMPROPER INSTALLATION AND INADEQUATE MAINTENANCE, POOR HOUSEKEEPING AND WILLFUL NEGLECT OR BYPASSING OF SAFETY DEVICES MAY RESULT IN SERIOUS ACCIDENTS OR INJURY. TO ASSURE THE SAFETY OF CUSTOMERS AND/OR OPERATORS OF YOUR MACHINE, THE FOLLOWING MAINTENANCE CHECKS MUST BE PERFORMED ON A DAILY BASIS.

1. **Prior to operation of the machine**, check to make certain that all operating instructions and warning signs are affixed to the machine and legible. Missing or illegible ones must be replaced immediately. Be sure you have spare signs and labels available at all times. These can be obtained from your dealer.
2. **Check the door safety interlock, as follows:**
  - a. OPEN THE DOOR of the machine and attempt to start in the normal manner:  
For coin-operated models, insert the proper coins to start the machine.  
For manually operated models, place the ON-OFF switch in the ON position and press the Start switch.

## **THE MACHINE(S) MUST NOT START !**

- b. CLOSE THE DOOR to start machine operation and, while it is operating, attempt to open the door without exerting extreme force on the door handle. The door should remain locked!  
If the machine can start with the door open, or can continue to operate with the door unlocked, the door interlock is no longer operating properly. The machine **must** be placed **out of order** and the interlock immediately replaced.
3. DO NOT UNDER ANY CIRCUMSTANCES ATTEMPT TO BYPASS OR REWIRE ANY OF THE MACHINE SAFETY DEVICES AS THIS CAN RESULT IN SERIOUS ACCIDENTS.
4. **Be sure to keep the machine(s) in proper working order:** Follow **all** maintenance and safety procedures. Further information regarding machine safety, service and parts can be obtained from your dealer.  
All requests for assistance must include the model, serial number and electrical characteristics as they appear on the machine identification plate. Insert this information in the space provided on the previous page of this manual.
5. **WARNING:** DO NOT OPERATE MACHINE(S) WITH SAFETY DEVICES BYPASSED, REWIRED OR INOPERATIVE! DO NOT OPEN MACHINE DOOR UNTIL DRUM HAS STOPPED ROTATING!

## NOTICE TO INSTALLER

Improper installation of this machine:

- May cause serious damage to the machine.
- May result in other property damage.
- May cause personal injury.
- Will void the manufacturer's warranty.

Improper fastening of this machine to its foundation, inferior foundation materials, an undersized foundation, the use of fabricated steel bases not provided by Electrolux Professional or its approved supplier(s), the use of an improper type, number, or size of mounting bolts, or failure to use proper hardware on mounting bolts may result in damage to the machine that will not be covered by the manufacturer's warranty.

Connection to line Voltage or over-current protection devices other than those specified on the data plate may result in severe damage to machine components, and will void the manufacturer's warranty.

Refer to complete installation instructions provided in manuals accompanying the machine.

**Contact Electrolux Professional Technical Support with any questions BEFORE installing this machine. Damage resulting from inadequate installation materials or improper installation techniques will void the manufacturer's warranty.**

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The manufacturer reserves the right to make changes to design and component specifications.





## 1 Safety Precautions

- Servicing shall be carried out only by authorized personnel.
- Only authorized spare parts, accessories and consumables shall be used.
- Only use detergent intended for water-wash of textiles. Never use dry cleaning agents.
- The machine shall be connected with new water hoses. Re-used water hoses must not be used.
- The machine's door lock must under no circumstances be bypassed.
- If the machine develops a fault, this must be reported to the person in charge as soon as possible. This is important both for your safety and that of others.
- DO NOT MODIFY THIS APPLIANCE.
- When performing service or replacing parts, the power must be disconnected.
- When the power is disconnected, the operator must see that the machine is disconnected (that the plug is removed and remains removed) from any point to which he has access. If this is not possible, due to the construction or installation of the machine, a disconnection with a locking system in the isolated position shall be provided.
- In accordance with the wiring rules: mount a multi-pole switch prior to the machine to facilitate installation and service operations.
- If different rated voltages or different rated frequencies (separated by a /) are stated at the machine data plate, instructions for adjusting the appliance for operation at the required rated voltage or rated frequency are stated in the installation manual.
- Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III, the instructions state that means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
- The openings in the base, shall not be obstructed by a carpet.
- Maximum mass of dry cloth: W4400H: 45 kg / 99 lbs, W4600H: 65 kg / 143 lbs, W4850H: 90 kg / 198 lbs, W41100H: 120 kg / 265 lbs.
- A-weighted emission sound pressure level at working stations:
  - Wash: W4400H: <70 dB(A), W4600H: <70 dB(A), W4850H: <70 dB(A), W41100H: <70 dB(A).
  - With insulation: W4400H: <70 dB(A), W4600H: <70 dB(A), W4850H: <70 dB(A), W41100H: <70 dB(A).
- Maximum inlet water pressure: 1000 kPa / 145 psi
- Minimum inlet water pressure: 50 kPa / 8 psi

### 1.1 General safety information

The machine is only intended for water-wash use.




Do not hose down the machine with water.

In order to prevent damage to the electronics (and other parts) that may occur as the result of condensation, the machine should be placed in room temperature for 24 hours before being used for the first time.

### 1.2 Commercial use only

The machine/machines covered by this manual is/are made for commercial and industrial use only.

1.3 Symbols

	Caution
	Caution, high voltage
	Read the instructions before using the machine

## 2 Warranty terms and exclusions

If the purchase of this product includes warranty coverage, warranty is provided in line with local regulations and subject to the product being installed and used for the purposes as designed, and as described within the appropriate equipment documentation.

Warranty will be applicable where the customer has used only genuine spare parts and has performed maintenance in accordance with Electrolux Professional user and maintenance documentation made available in paper or electronic format.

Electrolux Professional strongly recommends using Electrolux Professional approved cleaning, rinse and descaling agents to obtain optimal results and maintain product efficiency over time.

The Electrolux Professional warranty does not cover:

- service trips cost to deliver and pick up the product;
- installation;
- training on how to use/operate;
- replacement (and/or supply) of wear and tear parts unless resulting from defects in materials or workmanship reported within one (1) week from the failure;
- correction of external wiring;
- correction of unauthorized repairs as well as any damages, failures and inefficiencies caused by and/or resulting from;
  - insufficient and/or abnormal capacity of the electrical systems (current/voltage/frequency, including spikes and/or outages);
  - inadequate or interrupted water supply, steam, air, gas (including impurities and/or other that does not comply with the technical requirements for each appliance);
  - plumbing parts, components or consumable cleaning products that are not approved by the manufacturer;
  - customer's negligence, misuse, abuse and/or non-compliance with the use and care instructions detailed within the appropriate equipment documentation;
  - improper or poor: installation, repair, maintenance (including tampering, modifications and repairs carried out by third parties not authorized third parties) and modification of safety systems;
  - Use of non-original components (e.g.: consumables, wear and tear, or spare parts);
  - environment conditions provoking thermal (e.g. overheating/freezing) or chemical (e.g. corrosion/oxidation) stress;
  - foreign objects placed in- or connected to- the product;
  - accidents or force majeure;
  - transportation and handling, including scratches, dents, chips, and/or other damage to the finish of the product, unless such damage results from defects in materials or workmanship and is reported within one (1) week of delivery unless otherwise agreed;
- product with original serial numbers that have been removed, altered or cannot be readily determined;
- replacement of light bulbs, filters or any consumable parts;
- any accessories and software not approved or specified by Electrolux Professional.

Warranty does not include scheduled maintenance activities (including the parts required for it) or the supply of cleaning agents unless specifically covered within any local agreement, subject to local terms and conditions.

Check on Electrolux Professional website the list of authorized customer care.

3 General

This machine is controlled by a microprocessor-based program control unit. There are many advantages to this equipment, including:

- Timing, levels and temperatures are controlled with great precision and flexibility
- Detailed information on wash programs, machine status and operations, wash times and temperatures can be accessed in plain language on the large display screen
- It is possible for the user to create new wash programs and to adapt wash programs precisely on the basis of experience and to suit various types of textile, degrees of soiling etc.
- A very high level of machine safety through continuous monitoring and built-in safety interlocks
- The program control unit has a reader for "smart cards". A smart card is a plastic card, the size of a credit card, with an electronic memory chip inside it

Smart cards allow the user to:

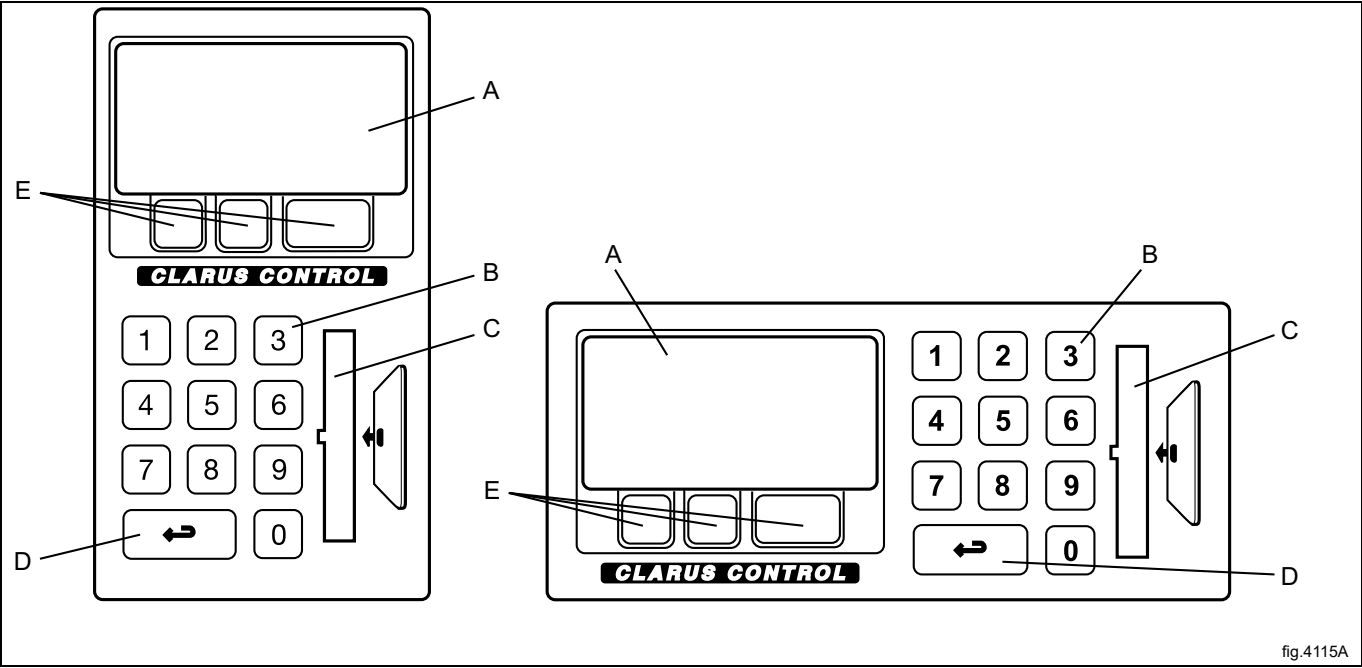
- Transfer wash programs between a PC and the machine, or from one machine to another
- Run wash programs straight from a smart card

Great flexibility during program operation:

- Rapid advance both forwards and backwards in the wash program
- Change temperatures, program module lengths and extraction speeds directly, during program operation
- Start a different wash program at any time during program operation

4 Display

The display can either be vertical or horizontal. The functions are however the same.



A	Display screen
B	Numeric keyboard
C	Card reader for smart cards
D	The "Move back" key By pressing this key repeatedly you can move backwards through the menus you have navigated through.
E	The functions of these keys change, depending on which menu or part of a menu you are using. Their current functions at any time are shown on the display immediately above each key.

## 5 Program description

The machine's program control unit has nine standard wash programs: 991–999.

If these wash programs are not enough for your requirements you can program your own wash programs and save them under other unique program numbers. For more information about making your own wash programs please refer to the Programming manual.

The following table shows the standard wash programs and a short description of those:

Wash program		Description
991	NORMAL 95°C	Light to normal soiled Cotton and terry For an optimal result, full load is recommended
992	NORMAL 60°C	Light to normal soiled Cotton and terry For an optimal result, full load is recommended
993	NORMAL 40°C	Light to normal soiled Cotton and terry For an optimal result, full load is recommended
994	INTENSIVE 95°C	Heavy soiled Cotton and terry Warm pre-wash is added
995	INTENSIVE 60°C	Heavily soiled Cotton and terry Warm pre-wash is added
996	PERM. PRESS 60°C	Synthetic (example of synthetic fabrics: polyester, polyamide, polyacrylic and elastan), viscose, polycotton and delicate fabrics For an optimal result, half load is recommended
997	PERM. PRESS 40°C	Synthetic (example of synthetic fabrics: polyester, polyamide, polyacrylic and elastan), viscose, polycotton and delicate fabrics For an optimal result, half load is recommended
998	DELICATE 30°C	For sensitive and delicate textiles For an optimal result, only a few items is recommended
999	EXTR. HIGH 6 MIN	Used for rinse and extraction

6 Handling

6.1 Load

Load the goods into the machine according to recommendations and close the door.

Recommended maximum load	
W4400H	45 kg / 99 lbs
W4600H	65 kg / 143 lbs
W4850H	90 kg / 198 lbs
W41100H	120 kg / 265 lbs

6.2 Detergent

If you are using the machine's built-in detergent dispensers, add the correct amount of detergent and softener according to recommendations.

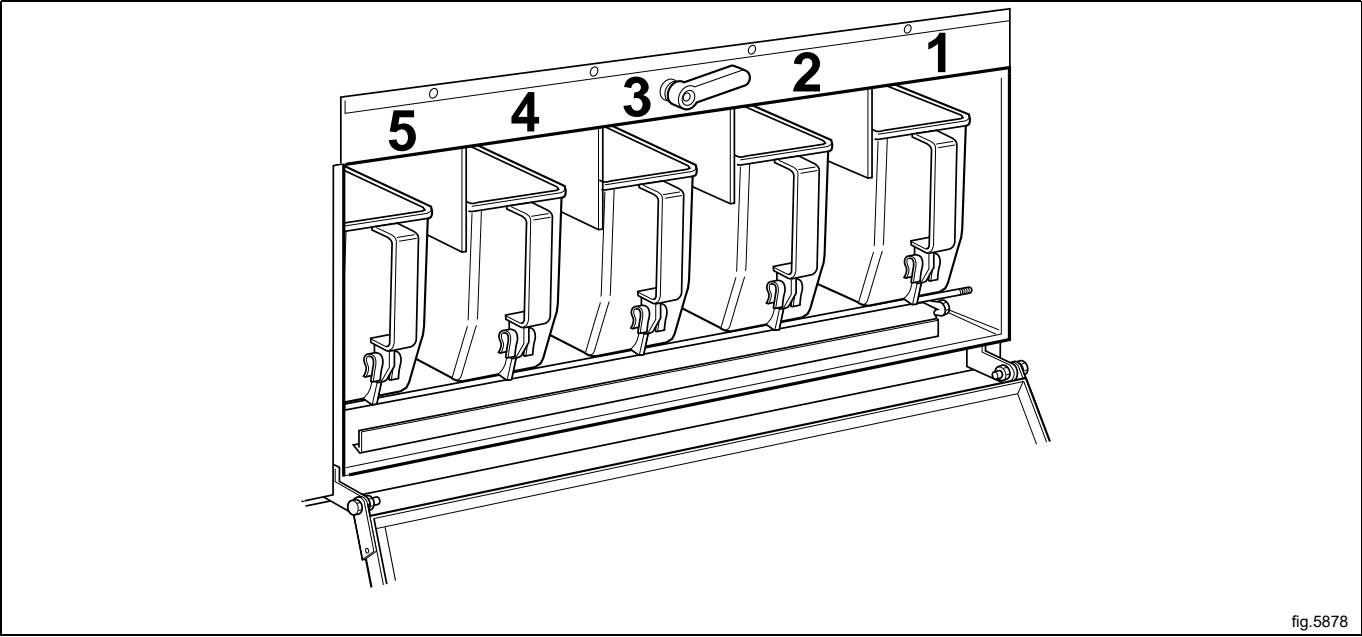


fig.5878

6.3 To start a wash program

6.3.1 General

There are two ways to start a wash program:

- By entering the wash program number
- By starting from the wash program library

If necessary, use the “Move back key” to go back in the menus so that the start menu are displayed.

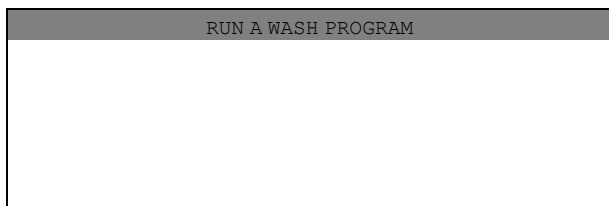
RUN A WASH PROGRAM

OPTIONS MENU

MAKE YOUR CHOICE WITH ↓ OR ↑ AND PRESS SELECT

### 6.3.2 To start a wash program by entering the program number

Select the menu RUN A WASH PROGRAM.



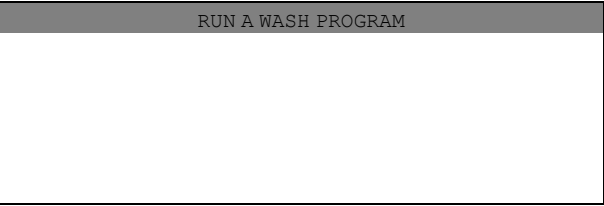
Use the numeric keyboard to enter the wash program number and press SELECT.

1	MY OWN 40°C
2	MY OWN 60°C
3	MY OWN 90°C
991	NORMAL 95°C
992	NORMAL 60°C
993	NORMAL 40°C
994	INTENSIVE 95°C
995	INTENSIVE 60°C
996	PERM. PRESS 60°C
997	PERM. PRESS 40°C
998	DELICATE 30°C
999	EXTR. HIGH 6 MIN

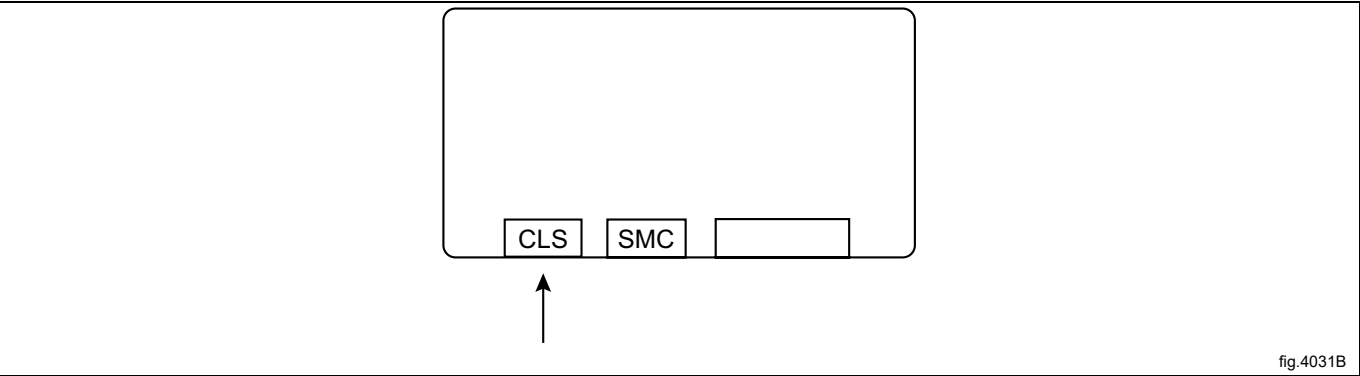
Press START to start the wash program.

6.3.3 To start a wash program from the program library

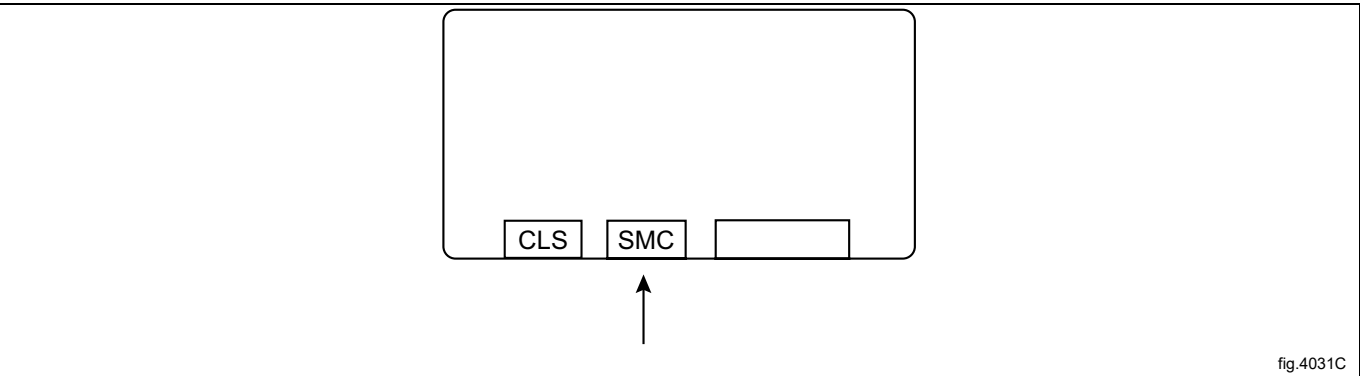
Select the menu RUN A WASH PROGRAM.



Press CLS to select a wash program from the wash program library in the program control unit.



Press SMC to select a wash program from the smart card. (A smart card must be inserted in the program control unit).



The wash program library can also be accessed from the OPTIONS MENU.

Select the menu OPTIONS MENU.

Select the menu WASH PROGRAM LIBRARY.

Select wash program from the list.

1	MY OWN 40°C
2	MY OWN 60°C
3	MY OWN 90°C
991	NORMAL 95°C
992	NORMAL 60°C
993	NORMAL 40°C
994	INTENSIVE 95°C
995	INTENSIVE 60°C
996	PERM. PRESS 60°C
997	PERM. PRESS 40°C
998	DELICATE 30°C
999	EXTR. HIGH 6 MIN

Press START to start the wash program.



## 6.4 Delayed start

Delayed start means that the machine will not start the wash program until the time entered has elapsed.

When wash program is selected, use the numeric keys to set the time (max. 99 hours). The time is set in hours and minutes. The time counting down is visible in the display.

Press START to save the set time. (The time will start counting down immediately).

If the display shows for example 12.00 the wash program will start after 12 hours.

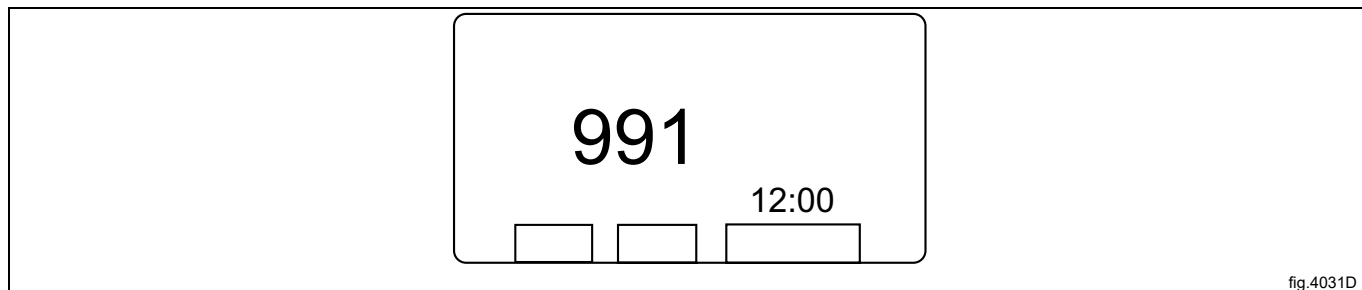


fig.4031D

To cancel the delayed start press EXIT.

### **Note!**

**The set delayed start will only apply to the selected wash program.**

## 6.5 During program run

The following menus and related information are showed on the display during program run:

- PROGRAM STEP
- STEP TIME
- SET TEMPERATURE
- ACTUAL TEMPERATURE
- DRUM SPEED

### 6.5.1 To change parameters in the current program step

**Note!**

The standard wash programs can not be changed.

The program step can only be changed during the actual program step. For example PREWASH may only be changed during prewash.

The following program steps can be changed during program run:

- PREWASH
- MAIN WASH
- RINSE
- DRAIN
- SOAK
- EXTRACTION

For PREWASH, MAIN WASH, RINSE and SOAK the following parameters can be changed:

- STEP TIME
- SET TEMPERATURE
- ACTUAL TEMPERATURE

Scroll up or down with the arrows and select the required menu.

If wrong parameter is entered just overwrite the parameter again.

**Note!**

The same amount of digits as displayed must be entered when changing parameter. If the value 720 seconds is changed to 30 seconds you must enter the value 030.

**STEP TIME**

Use the numeric keyboard to enter the new parameter for STEP TIME.

The parameter is set in seconds. The maximum value is 9998 seconds.

Press SELECT to save the new parameter.

**SET TEMPERATURE**

Use the numeric keyboard to enter the new parameter for SET TEMPERATURE.

The parameter is set in °C. The maximum value is 97°C.

Press SELECT to save the new parameter.

**ACTUAL TEMPERATURE**

Use the numeric keyboard to enter the new parameter for ACTUAL TEMPERATURE.

The parameter is set in °C. The maximum value is 97°C.

Press SELECT to save the new parameter.

## 6.5.2 Additional functions during program run

The following additional functions are available for selection after start:

- RAPID ADVANCE
- SHOW WEIGHT
- NO WATER REDUCTION
- MANUAL FUNCTIONS
- PAUSE
- TEXT
- SELECT NEW WASH PROGRAM
- AUTO RESTARTS
- CHANGE F°/C°

To exit the menus when ready; press **SELECT**. If **SELECT** is not pressed, the display will revert automatically after 20 seconds.

### Note!

Some of the functions may not be available or active on your machine.

#### 6.5.2.1 Rapid advance

Select the menu **RAPID ADVANCE**.

This menu can be used to move both forward and backward through the wash program. Rapid advance forward to skip one or more program steps. Rapid advance backward to repeat one or more program steps.

Select program step from the list on the display and press **SELECT** to start the selected program step.

For example wash program 991 — **NORMAL 95°C** consists of the following program steps:

- MAIN WASH
- DRAIN
- RINSE
- DRAIN
- EXTRACT
- RINSE
- DRAIN
- EXTRACT
- RINSE
- DRAIN
- EXTRACT
- END OF PROGRAM

**END OF PROGRAM** makes it possible to end the program before program end.

Rapid advance to **END OF PROGRAM** and press **SELECT**. When **THE DOOR IS UNLOCKED** is displayed you can open the door.

#### 6.5.2.2 Show weight

This menu is only valid for machines with installed weighing equipment.

Select the menu **SHOW WEIGHT**.

The actual load weight is shown in large digits on the display.

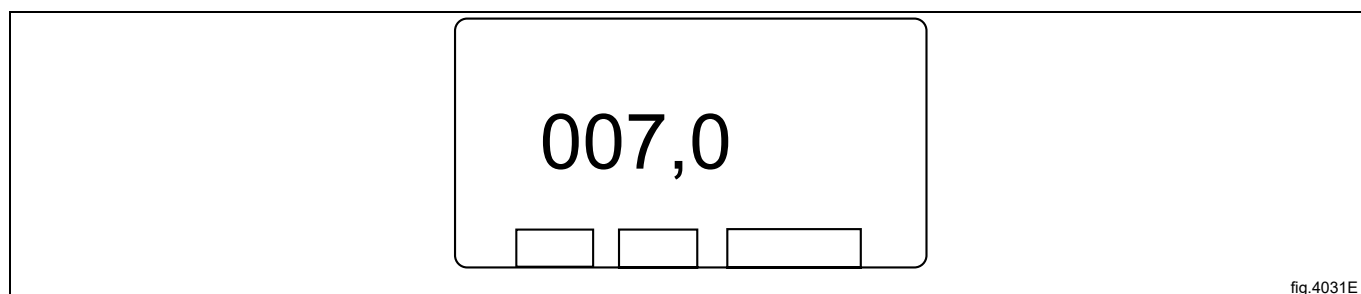


fig.4031E

If the weighing equipment is not connected, the error message `FUNCTION NOT ALLOWED` will appear on the display. The display will return to normal view at the end of the time set in `TIME FOR WEIGHT DISPLAY` in Settings 1. Default time is 20 seconds. You can also press the “Move back key” to make the display return to normal.

### 6.5.2.3 No water reduction

This menu is only valid for machines with installed weighing equipment.

Select the menu `NO WATER REDUCTION`.

The water level is automatically adjusted according to the load weight. This function lets you switch off water level reduction during the current wash program.

The load is weighed during the wash program and the water level is adjusted automatically according to the weight. If the load is not a full one, the water level will be reduced according to a water level reduction table. You can switch off water level reduction at any stage of a wash program.

#### **Note!**

**The changed function will only apply to the ongoing wash program.**

### 6.5.2.4 Manual functions

Select the menu `MANUAL FUNCTIONS`.

There are two ways of manual operation:

- Manual operation during program run
- Manual operation when no program is running

#### 6.5.2.4.1 Manual operation during program run

Select the menu `MANUAL FUNCTIONS`.

Select from the list which function to operate manually.

- `WATER/DRAIN`
- `HIGH EXTRACT`
- `MOTOR`
- `DETERGENT/FLUSH`
- `EXIT`

#### **Note!**

**The changed function will only apply to the ongoing wash program.**

#### **Water/drain**

This menu allows manual operation of all water valves and the drain valve.

Select the menu `WATER/DRAIN`.

The following functions will be available:

- `COLD WATER`
- `MIXED WATER`
- `HOT WATER`
- `COLD HARD WATER`
- `WATER FROM TANK 1`
- `WATER FROM TANK 2`
- `WATER FROM TANK 3`
- `DRAIN`
- `EXIT`

#### **Note!**

**Some of the functions may not be available or active on your machine.**

Select function to change and press `OPEN`.

The function will be activated for as long as the key is pressed. When the key is released the function stops.

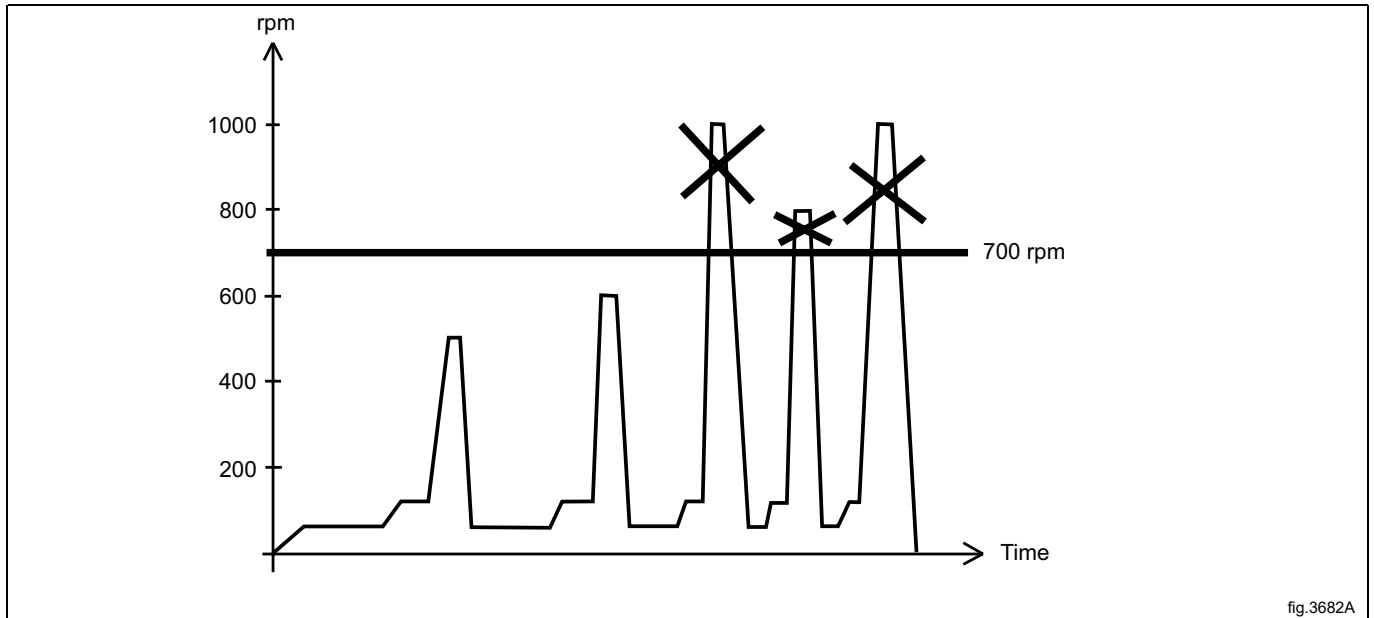
**High extract**

This function makes it possible to change the maximum extraction speed.

Select the menu `HIGH EXTRACT`.

Enter the maximum extraction speed required for the ongoing wash program.

For example, if the highest extraction speed for the selected wash program as standard is set to 1000 rpm and the function is changed to 700 rpm the extraction speed will stop at 700 rpm.



It is not possible to enter a value that is larger than the standard settings showed on the display.

**Motor**

This function makes it possible to set if the motor shall rotate or not when program has ended.

Select the menu `MOTOR`.

Activate or deactivate the function with Y/N.

Y = Active (The motor will continue to rotate in alternative directions after the program has ended. This will prevent creasing of the load).

N = Not active (The motor will not rotate after the program has ended).

Press `STOP` to stop the rotation of the motor.

**Detergent/flush**

Select the menu `DETERGENT/FLUSH`.

The following functions will be available:

- `FLUSH WATER`
- `POWDER SIGNAL 1`
- `POWDER SIGNAL 2`
- `POWDER SIGNAL 3`
- `POWDER SIGNAL 4`
- `POWDER SIGNAL 5`
- `LIQUID SIGNAL 1`
- `LIQUID SIGNAL 2`
- `LIQUID SIGNAL 3`
- `LIQUID SIGNAL 4`
- `LIQUID SIGNAL 5`
- `LIQUID SIGNAL 6`
- `LIQUID SIGNAL 7`
- `LIQUID SIGNAL 8`
- `EXIT`

**Note!**

**Some of the functions may not be available or active on your machine.**

Select function to change and press `OPEN`.

The function will be activated for as long as the key is pressed. When the key is released the function stops.

`FLUSH WATER` function uses water to clear detergent from the supply tubes of the detergent dispensing system.

`POWDER SIGNAL/LIQUID SIGNAL` functions uses either A — water to dispense detergent from machine compartments or B — dispense detergent from an external system. (The number of valves present will vary according to machine type).

#### 6.5.2.4.2 Manual operating when no program is running

##### Note!

**The door must be locked before you can operate the machine manually.**

Enter the OPTIONS MENU.

RUN A WASH PROGRAM
OPTIONS MENU
MAKE YOUR CHOICE WITH ↓ OR ↑ AND PRESS SELECT

Select the menu MANUAL MODE.

(For description of the other menus please refer to the Programming manual).

WASH PROGRAM LIBRARY
PROGRAMMING MODE
SETTINGS 1
MEMORY CARD
SERVICE MODE
STATISTICS
MANUAL MODE
SETTINGS 2

Select from the list which function to operate manually.

- MOTOR/DOOR
- WATER/DRAIN
- HEATING
- DETERGENT/FLUSH
- EXIT

##### Motor/door

Select the menu MOTOR/DOOR.

The following functions will be available:

- DOOR LOCK ON
- MOTOR ON
- EXIT

Select function to change.

Activate or deactivate the function selected with Y/N.

Y = Active

N = Not active

DOOR LOCK ON. When this function is activated the door will be locked.

MOTOR ON. When this function is activated the motor will start and operate using normal action.

### Water/drain

This menu allows manual operation of all water valves and the drain valve.

Select the menu `WATER/DRAIN`.

The following functions will be available:

- `DRAIN CLOSED`
- `COLD WATER`
- `MIXED WATER`
- `HOT WATER`
- `HARD WATER`
- `WATER FROM TANK 1`
- `WATER FROM TANK 2`
- `WATER FROM TANK 3`
- `EXIT`

### Note!

**Some of the functions may not be available or active on your machine.**

Select function to change and press `OPEN`.

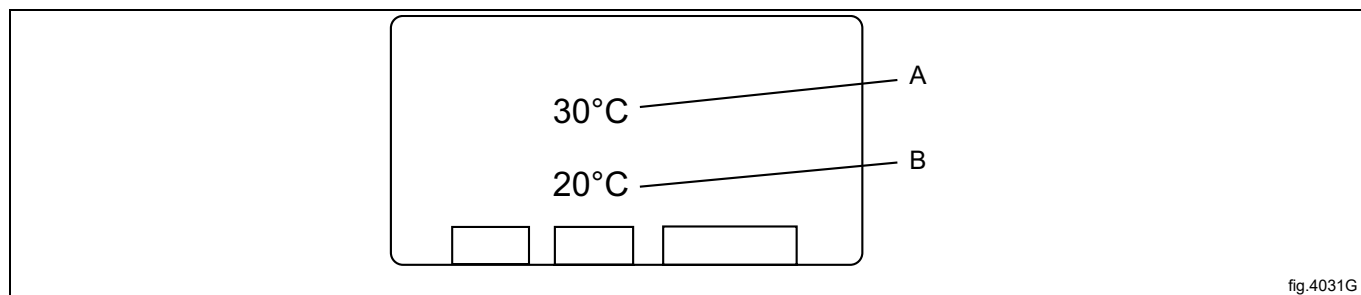
The function will be activated for as long as the key is pressed. When the key is released the function stops.

### Heating

Select the menu `HEATING`.

Enter the new temperature (A) the water is to be heated to and press `START` to start the heating.

The actual temperature (B) is showed on the display during heating.



### Note!

**All program steps before heating must be performed before manual operation of the heating is possible. (For example; the drum must be filled with water to above the safety level).**

To cancel the heating before the set temperature is reached; select the function again and press `STOP`.

It is not possible to enter a value that is larger than the standard settings showed on the display.



### Detergent/flush

Select the menu `DETERGENT/FLUSH`.

The following functions will be available:

- `FLUSH WATER`
- `POWDER SIGNAL 1`
- `POWDER SIGNAL 2`
- `POWDER SIGNAL 3`
- `POWDER SIGNAL 4`
- `POWDER SIGNAL 5`
- `LIQUID SIGNAL 1`
- `LIQUID SIGNAL 2`
- `LIQUID SIGNAL 3`
- `LIQUID SIGNAL 4`
- `LIQUID SIGNAL 5`
- `LIQUID SIGNAL 6`
- `LIQUID SIGNAL 7`
- `LIQUID SIGNAL 8`
- `EXIT`

### Note!

**Some of the functions may not be available or active on your machine.**

Select function to change and press `OPEN`.

The function will be activated for as long as the key is pressed. When the key is released the function stops.

`FLUSH WATER` function uses water to clear detergent from the supply tubes of the detergent dispensing system.

`POWDER SIGNAL/LIQUID SIGNAL` functions uses either A — water to dispense detergent from machine compartments or B — dispense detergent from an external system. (The number of valves present will vary according to machine type).

### 6.5.2.5 Pause

There are two ways of pausing an ongoing wash program:

- By selecting `PAUSE` from the menu during program run.
- By pressing the “Move back key”.

When the machine pauses:

- Program operation is halted
- Filling is halted (where applicable)
- Heating is halted (where applicable).
- The motor stops
- The drain valve remains closed
- The door can not be opened

### Note!

**The machine must be in normal wash mode to be able to pause. If you are in `MANUAL FUNCTIONS` the machine can not be paused. You must exit `MANUAL FUNCTIONS` to be able to pause.**

Press `START` to end the pause.

### 6.5.2.6 Text

Select the menu `TEXT`.

The text displayed is a description of the ongoing wash program.

This text description is inserted when a new wash program is created.

#### 6.5.2.7 Select new wash program

This menu makes it possible to change wash program during program run. Once this function has been selected, the current program step (for example rinse) will be interrupted and then the new wash program will start (from the beginning).

Select the menu `SELECT NEW WASH PROGRAM`.

Select the new wash program from the list and press `SELECT` to start the new wash program.

#### 6.5.2.8 Auto restarts

This menu makes it possible to restart the ongoing wash program.

Select the menu `AUTO RESTARTS`.

Enter the number of times the wash program shall restart automatically.

Press `SELECT` to save.

#### 6.5.2.9 Change F°/C°

This menu makes it possible to change the temperature scale used for all temperatures displayed during the ongoing wash program.

Select the menu `CHANGE F° / C°`.

When selected the temperature scale will change to the other one. If for example C° is showed as standard the temperature will be switched to F° and vice versa.

#### **Note!**

**The change will only apply to the ongoing wash program.**

## 6.6 When program has ended

Open the door and remove the load.

Leave the door open when ready. This is to prevent that moisture stays in the machine and develop bacteria and mould.

### Machines with tilt function

Turn the switch on the tilt control unit clock wise (A). The machine will now tilt forward.

Use the bottom switch on the tilt control unit to rotate the drum (B), either to the right or the left. This makes it easier to empty the drum.

Press the middle switch on the tilt control unit (C). The machine will now return to normal position.

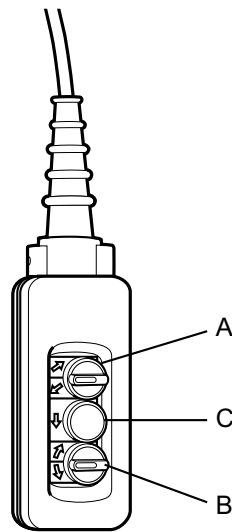
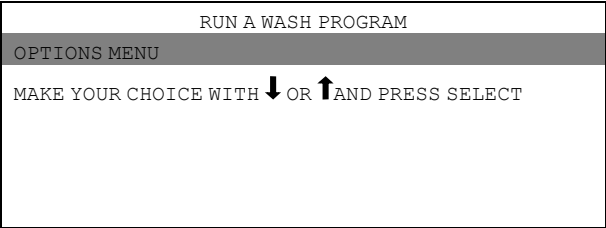


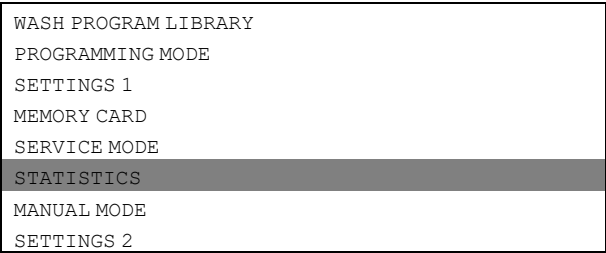
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## 7 Statistics

Enter the OPTIONS MENU.



Select the menu STATISTICS.  
(For description of the other menus please refer to the Programming manual).



The following menus and statistics are shown on the display:

- TOTAL RUN TIME HOURS
- TOTAL TRIP RUN TIME HOURS
- HOURS SINCE LAST SERVICE
- LAST 5 ERROR CODES

### Total run time hours

Shows the total operating time for the machine since it was installed.

### Total trip run time hours

Shows the total operating time for the machine since it was last reset.

### Hours since last service

Shows the time since the last service was performed.

### Program and washes

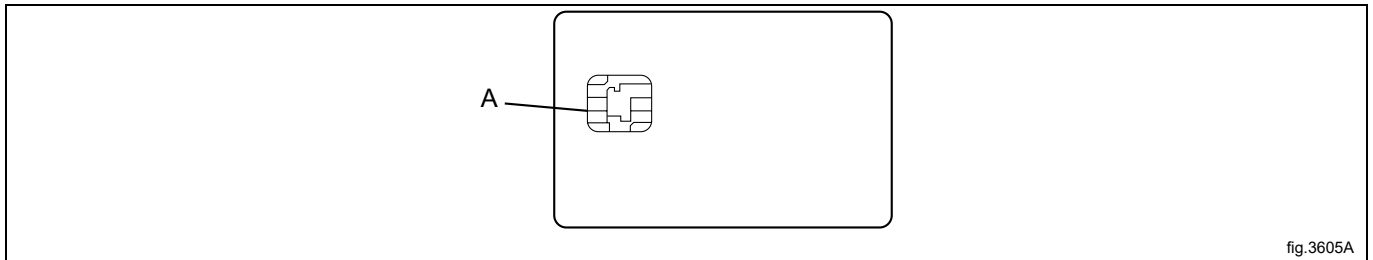
Press ↓ to enter the next view.  
The next view shows wash program No. and statistics of how many times the wash program has run.

PROGRAM	WASHES	PROGRAM	WASHES
2	4	10	0
12	0	52	0
78	0	123	0
991	35	992	3
993	1	994	0
995	0	996	0
997	0	998	0
999	0		

If a smart card is in place in the program control unit, the smart card program statistics will be displayed. An “S” before the wash program No. shows that it is a “smart card wash program”.

## 8 Smart card

A smart card is a plastic card, the size of a credit card, with an electronic memory chip inside it (A).



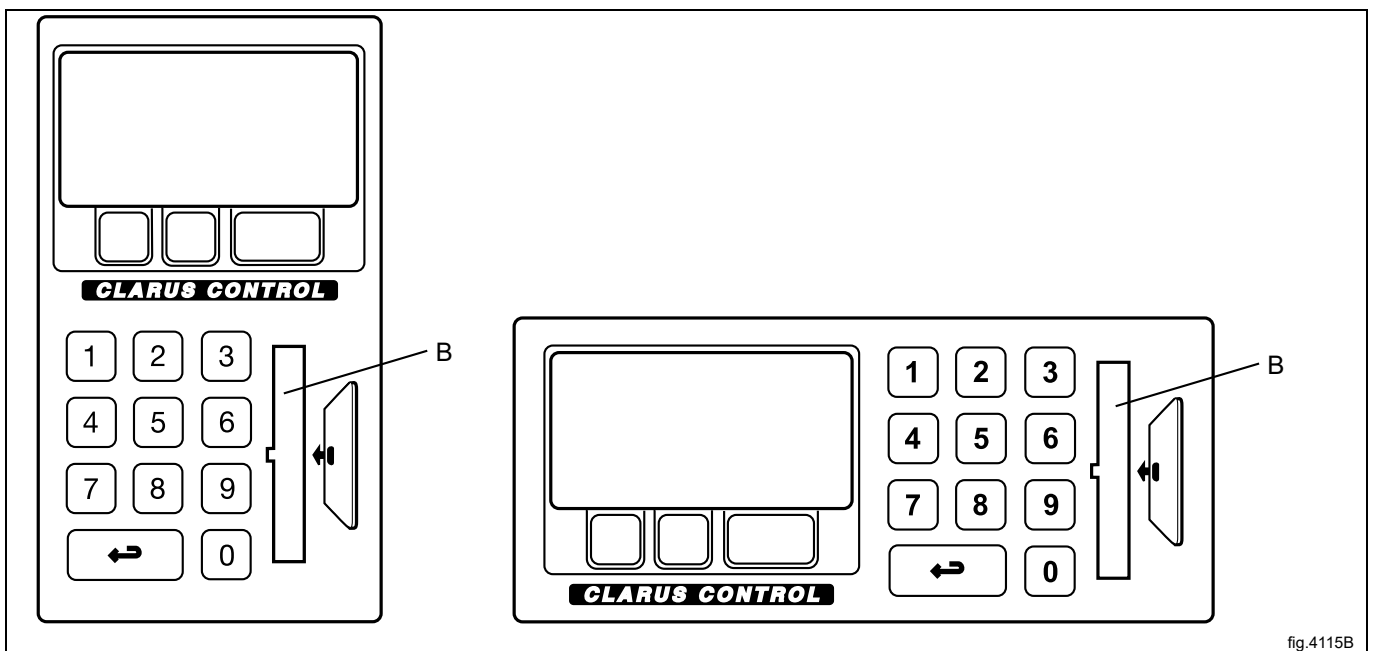
The smart card is capable of storing 10 to 15 wash programs of normal size. If the wash programs are mostly small ones, more of them can be stored, whereas larger wash programs will reduce the number which can be held by the smart card. Smart cards of this type can be used to:

- Transfer wash programs from one machine to another
- Run wash programs straight from the smart card
- Transfer wash programs from a PC to a smart card and from a smart card to a PC (for more information about this please refer to the manual "Wash Program Manager" — WPM).

A wash program stored on a smart card may be given restricted-use status. (If the wash program has been created on a PC). This means that:

- The wash program can not be deleted or copied to the program control unit of a machine
- It is not possible to modify the wash program or inspect the way it is written.
- To run the wash program the smart card must be inserted into the program control unit.

Insert the smart card with the chip first, facing left, into the machines card reader (B).



Enter the `OPTIONS` MENU.

RUN A WASH PROGRAM
OPTIONS MENU
MAKE YOUR CHOICE WITH ↓ OR ↑ AND PRESS SELECT

Select the menu `SMART CARD`.  
(For description of the other menus please refer to the Programming manual).

WASH PROGRAM LIBRARY
PROGRAMMING MODE
SETTINGS 1
SMART CARD
SERVICE MODE
STATISTICS
MANUAL MODE
SETTINGS 2

The following menus are available:

- EXECUTE WASH PROGRAM FROM SMART CARD
- COPY PROGRAM FROM SMART CARD TO CLS
- COPY PROGRAM FROM CLS TO SMART CARD
- DELETE PROGRAM IN SMART CARD
- CLEAR SMART CARD
- EXIT

To exit the menus when ready; press `EXIT`.

**Execute wash program from smart card**

Select the menu `EXECUTE WASH PROGRAM FROM SMART CARD`.  
Select wash program from the list and press `START` to start the wash program.

1	MY OWN 40°C
2	MY OWN 60°C
3	MY OWN 90°C
991	NORMAL 95°C
992	NORMAL 60°C
993	NORMAL 40°C
994	INTENSIVE 95°C
995	INTENSIVE 60°C
996	PERM. PRESS 60°C
997	PERM. PRESS 40°C
998	DELICATE 30°C
999	EXTR. HIGH 6 MIN

When a wash program is started from a smart card the wash program is copied from the smart card into the operating memory. The machine runs the wash program entirely from the set of instructions in the operating memory. This makes it possible to remove the smart card from the machine as soon as the wash program has started. When the wash program has ended it is erased from the operating memory.

**Copy program from smart card to CLS**

Select the menu COPY PROGRAM FROM SMART CARD TO CLS.

Select wash program from the list.

1	MY OWN 40°C
2	MY OWN 60°C
3	MY OWN 90°C
991	NORMAL 95°C
992	NORMAL 60°C
993	NORMAL 40°C
994	INTENSIVE 95°C
995	INTENSIVE 60°C
996	PERM. PRESS 60°C
997	PERM. PRESS 40°C
998	DELICATE 30°C
999	EXTR. HIGH 6 MIN

Follow the instructions on the display to keep the program No. as on the smart card or to give the program a new program No. (The new program number must be free and is set between 1 and 999).

Press **SELECT** to copy the wash program to the program control unit.

**Note!**

**Programs with restricted use status can not be copied.**

**Copy program from CLS to smart card**

Select the menu COPY PROGRAM FROM CLS TO SMART CARD.

Select wash program from the list.

1	MY OWN 40°C
2	MY OWN 60°C
3	MY OWN 90°C
991	NORMAL 95°C
992	NORMAL 60°C
993	NORMAL 40°C
994	INTENSIVE 95°C
995	INTENSIVE 60°C
996	PERM. PRESS 60°C
997	PERM. PRESS 40°C
998	DELICATE 30°C
999	EXTR. HIGH 6 MIN

Follow the instructions on the display to keep the program No. as on the program control unit or to give the program a new program No. (The new program number must be free and is set between 1 and 999).

Press **SELECT** to copy the wash program to the smart card.

**Note!**

**Programs with restricted use status can not be copied.**

### Delete program in smart card

Select the menu **DELETE PROGRAM IN SMART CARD**.

Select wash program from the list.

1	MY OWN 40°C
2	MY OWN 60°C
3	MY OWN 90°C
991	NORMAL 95°C
992	NORMAL 60°C
993	NORMAL 40°C
994	INTENSIVE 95°C
995	INTENSIVE 60°C
996	PERM. PRESS 60°C
997	PERM. PRESS 40°C
998	DELICATE 30°C
999	EXTR. HIGH 6 MIN

Press **SELECT** to delete the wash program from the smart card. Deleting will take about 5–15 seconds.

#### Note!

**Programs with restricted use status can not be deleted.**

### Clear smart card

Select the menu **CLEAR SMART CARD**.

Press **SELECT** to clear the smart card from all wash programs.

#### Note!

**Programs with restricted use status will not be deleted.**

## 9 Maintenance

### 9.1 General

It is the responsibility of the owner of the machine/the laundry manager to make sure that maintenance is periodically performed.

#### Note!

**Lack of maintenance may deteriorate the performance of the machine and may cause damage to components.**

### 9.2 Every day

Check that the door is locked during a program. Make sure the door cannot be opened until after the program is complete.

If the door can be opened before program end, the machine must be placed out of order until repairs are made.

Check that the door does not leak.

Check that the drain valve is not leaking and that it opens and closes normally.

Check the compressed air regulator. If necessary, empty separated water.

Clean the door, door glass and door gasket.

Clean the external parts.

If the machine has an automatic detergent dispenser; clean this (including the scoops).



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### **9.3 Maintenance to be carried out by qualified service personnel**

Contact qualified service personnel to perform the following maintenance:

Every third month:

- Check the belt tension.
- Check the filters at the steam and water connections.
- Check the imbalance switch's control arm.
- Check the oil level.
- Check the oil lubrication container.
- Clean the nozzles in the water valve.

## 10 Disposal information

### 10.1 Disposal of appliance at end of life

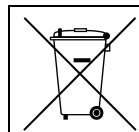
Before disposing of the machine, make sure to carefully check its physical condition, and in particular any parts of the structure that can give or break during scrapping.

The machine's parts must be disposed of in a differentiated way, according to their different characteristics (e.g. metals, oils, greases, plastic, rubber, etc.).

Different regulations are in force in the various countries, therefore comply with the provisions of the laws and competent bodies in the country where scrapping takes place.

In general, the appliance must be taken to a specialised collection/scrapping centre.

Dismantle the appliance, grouping the components according to their chemical characteristics, remembering that the compressor contains lubricant oil and refrigerant fluid which can be recycled, and that the refrigerator and heat pump components are special waste assimilable with urban waste.



The symbol on the product indicates that this product should not be treated as domestic waste, but must be correctly disposed of in order to prevent any negative consequences for the environment and human health. For further information on the recycling of this product, contact the local dealer or agent, the Customer Care service or the local body responsible for waste disposal.




#### Note!

**When scrapping the machine, any marking, this manual and other documents concerning the appliance must be destroyed.**

### 10.2 Disposal of packing

The packing must be disposed of in compliance with the current regulations in the country where the appliance is used. All the packing materials are environmentally friendly.

They can be safely kept, recycled or burned in an appropriate waste incineration plant. Recyclable plastic parts are marked as following examples.

	Polyethylene: <ul style="list-style-type: none"> <li>• Outer wrapping</li> <li>• Instructions bag</li> </ul>
	Polypropylene: <ul style="list-style-type: none"> <li>• Straps</li> </ul>
	Polystyrene foam: <ul style="list-style-type: none"> <li>• Corner protectors</li> </ul>





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