

Programming
Clarus Control

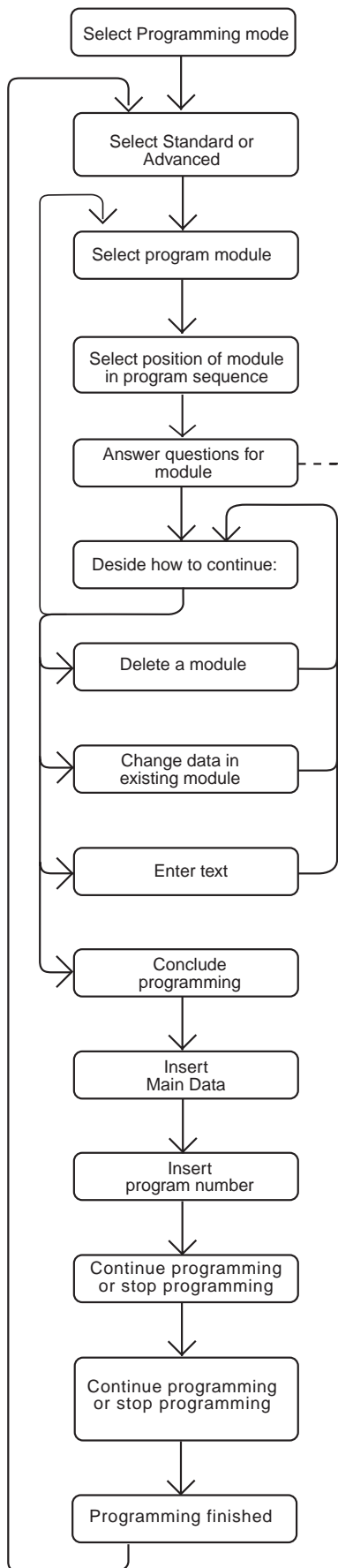
Thinking of you

 **Electrolux**

Contents

An introduction to programming -----	7
To create and write an entirely new program -----	8
To program on the basis of an existing program -----	11
To delete a wash program -----	14
To create and write an entirely new program -----	17
The "Move back" key -----	17
Select Programming Mode -----	17
Select Standard or Advanced mode -----	19
Select program module -----	20
Select position of module in program sequence -----	21
Answer the questions for the module -----	22
Decide how you wish to continue programming -----	24
Programming text -----	25
Conclude programming -----	26
Insert Main Data -----	26
Insert the program name -----	29
Insert the program number -----	30
Continue programming or stop programming -----	30
To program on the basis of an existing program -----	31
The "Move back" key -----	31
Select programming mode -----	31
Select Standard or Advanced mode -----	33
Select the existing program to adapt -----	34
To change data in a program module -----	35
To delete a module -----	38
To insert a new module -----	40
Programming text -----	41
Conclude programming -----	42
Main data -----	43
Insert the program name -----	46
Insert the program number -----	47
Continue programming or stop programming -----	48
Program modules, Standard mode -----	49
The Prewash, Main wash, Rinse and Soak, Standard mode -----	49
Drain, standard mode -----	57
Extraction, Standard mode -----	60
Cool-down, Standard mode -----	62
Program modules, Advanced mode -----	64
The Prewash, Main wash, Rinse and Soak, Advanced mode -----	64
Drain, Advanced -----	90
Extraction, Advanced mode -----	95
Cool-down, Advanced mode -----	98

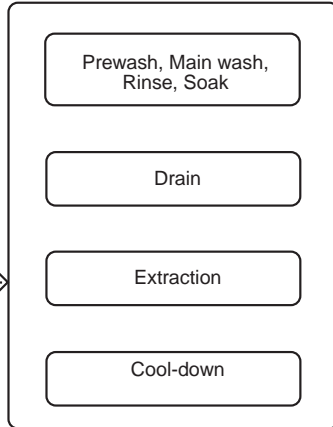
To create an entirely new program



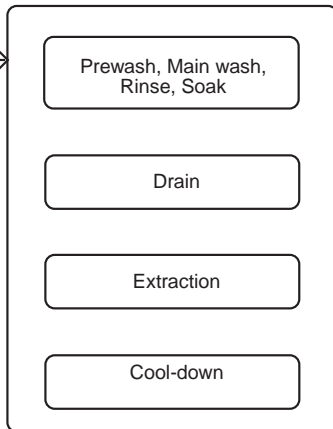
To delete a wash program

Delete a wash program

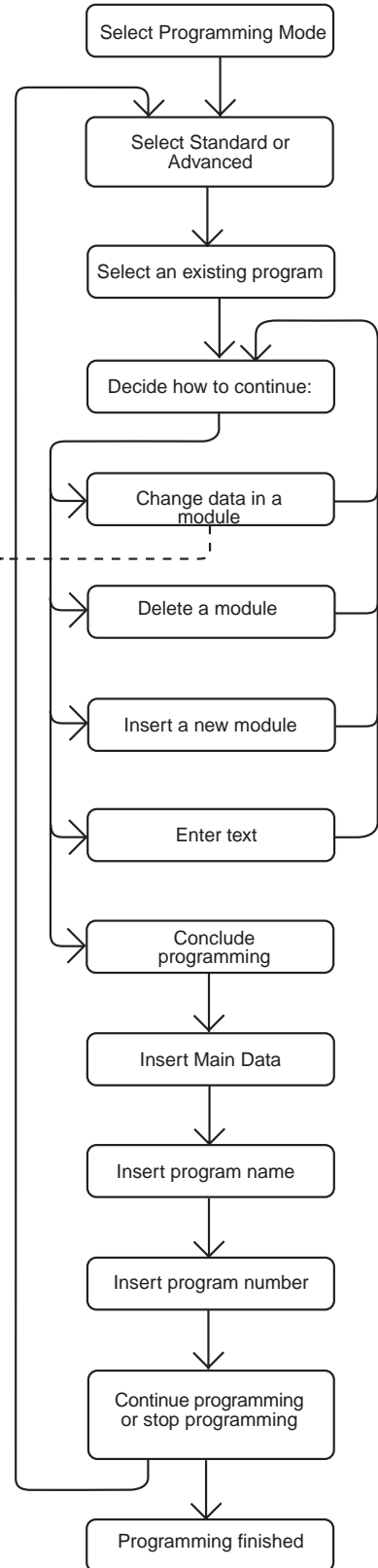
Questions, Standard



Questions, Advanced



To program on the basis of an existing program



An introduction to programming

The machine's program control unit (PCU) has nine standard programs, numbered 991 to 999. If these programs are insufficient for your requirements, you can also program your own wash programs and save them under other unique program numbers.

There are two possible approaches to programming:

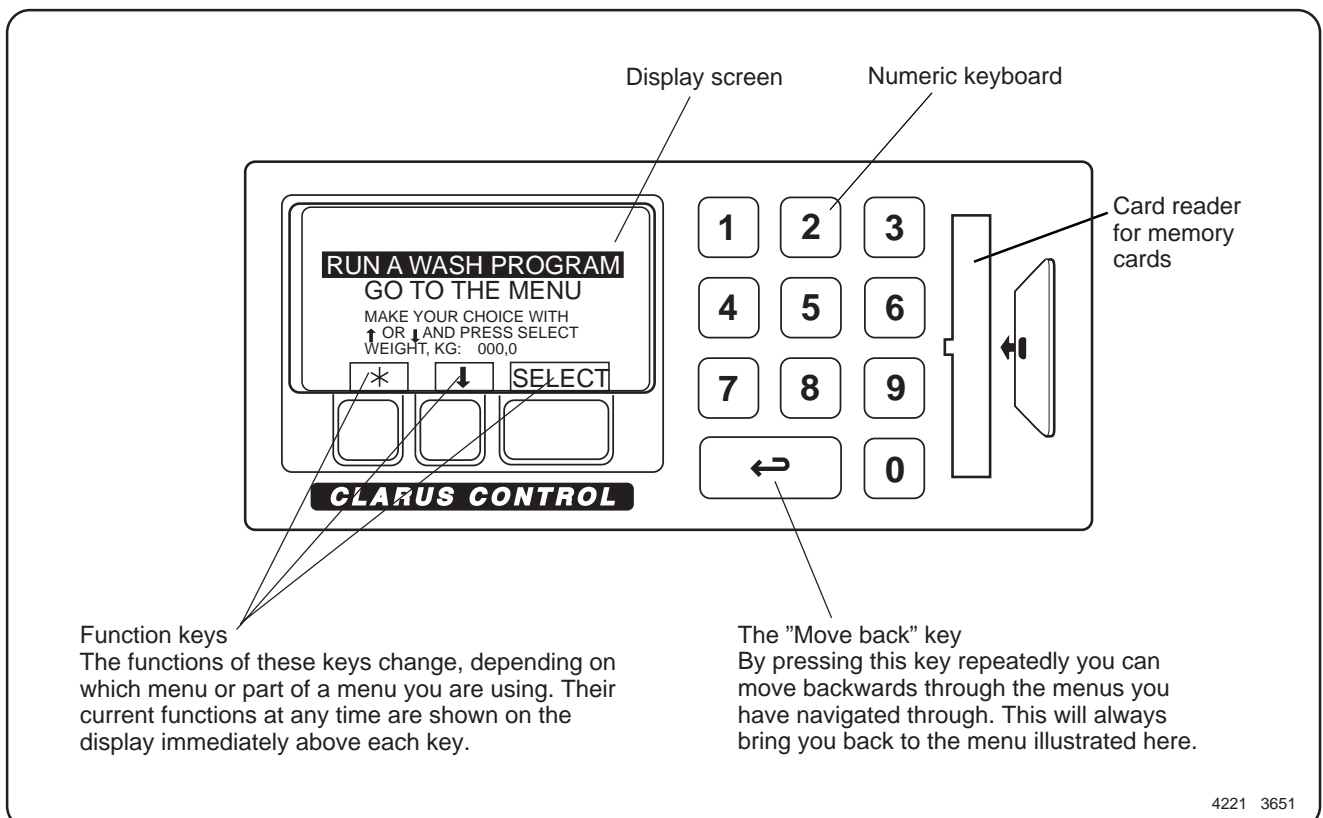
- You can **create a completely new wash program** by programming a number of individual "program modules" which are arranged in a logical order to form a new program.
- You can **create a new program on the basis of an existing one** by modifying, adding and deleting program modules, then saving the program created under a new program number.

There are also two different levels (modes) available for programming:

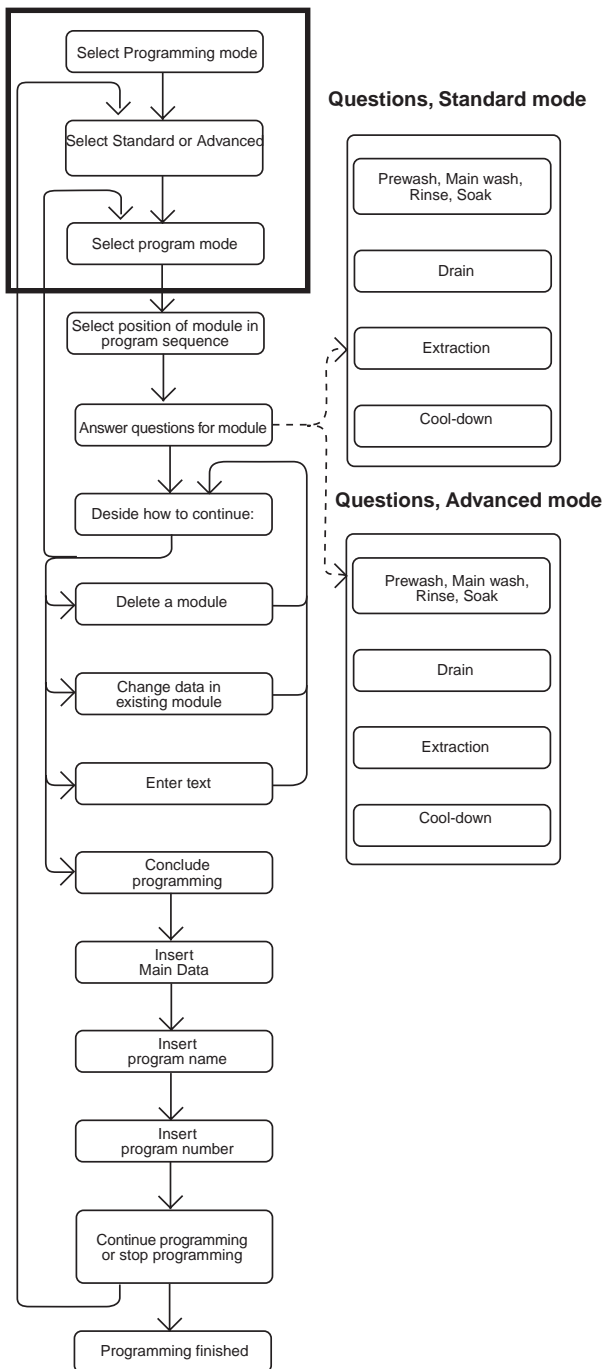
- In **Standard** mode you can enter all the basic data required for a wash program. Other variables are set automatically using tried-and-tested standard values, which in most cases work without any problem.
- In **Advanced** mode you have a higher degree of control over all aspects of the program. Using Advanced mode does, however, call for a detailed knowledge of the way in which wash programs work, to ensure that all the possibilities available are used correctly.

It is for you to decide which mode you wish to program in.

Wash programs can be programmed directly on the machine, via the PCU control panel, which is the method described in this manual. Wash programs can also be written on a personal computer and later transferred to the machine's PCU using a memory card. This option is described in a separate manual.



To create and write an entirely new program



3928

This is described in detail in Chapter "To create and write an entirely new program". The "questions" asked to help you construct each program module are described in Chapters "Program modules, Standard mode" and "Program modules, Advanced mode". The relevant section numbers are shown to the left of each description of the steps below.

To create a new program you must start by selecting programming mode.

Next you decide whether you wish to write the whole program in Standard or Advanced mode.

Standard mode allows you to include all the basic data required, while Advanced mode gives you a higher degree of control over all aspects of the program.

Here you select which program module you want to program. You can choose from the following modules:

Prewash

Used for prewash and brief soaking.

Main wash

Used as the main wash module, with heating and detergent dispensing.

Rinse

Rinsing the wash load.

Drain

Drain stage after wash and rinse stages.

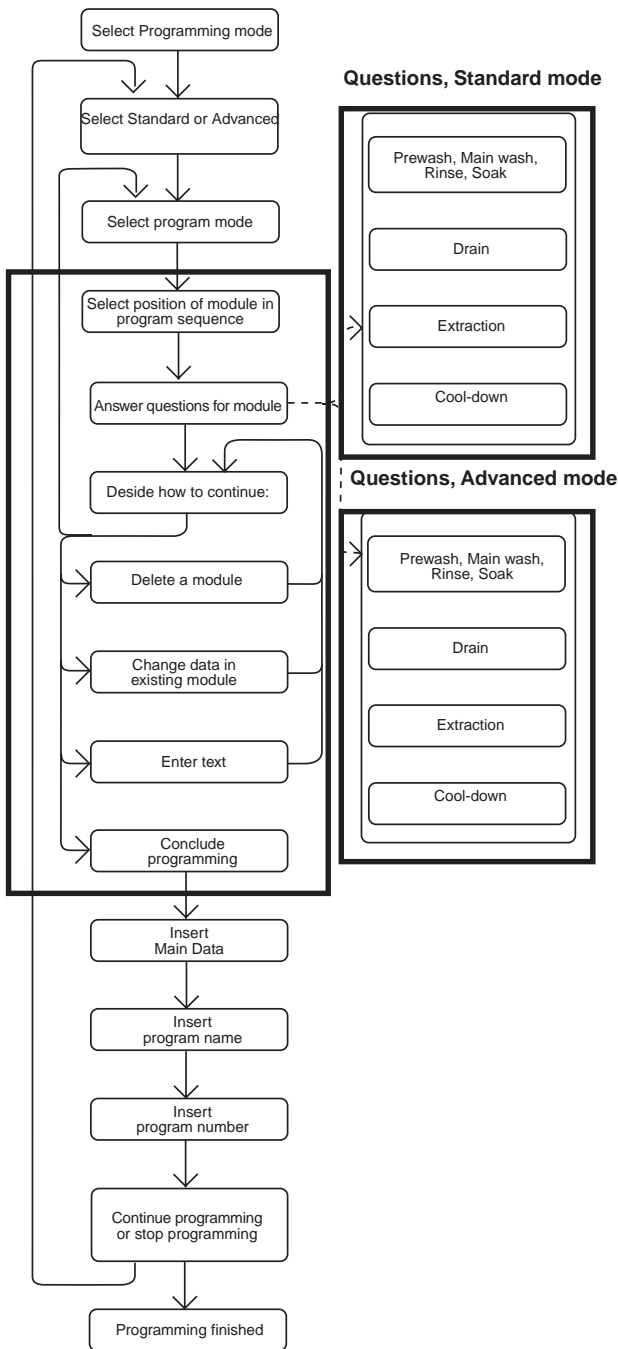
Extract

Cool-down

Used for controlled cooling of the wash water to prevent creasing of the wash load.

Soak

Used for longer soak stages.



3928

Here you determine the position of the module (which you are about to program) in the program sequence.

Once you reach the list of questions in the module, you have to answer a series of questions to determine factors such as times, speeds, temperatures, water and detergent options, and so on. Detailed explanations of each question can be found in these chapters:

Program modules, Standard mode

Program modules, Advanced mode

When you have completed the first program module, you can decide how you wish to continue:

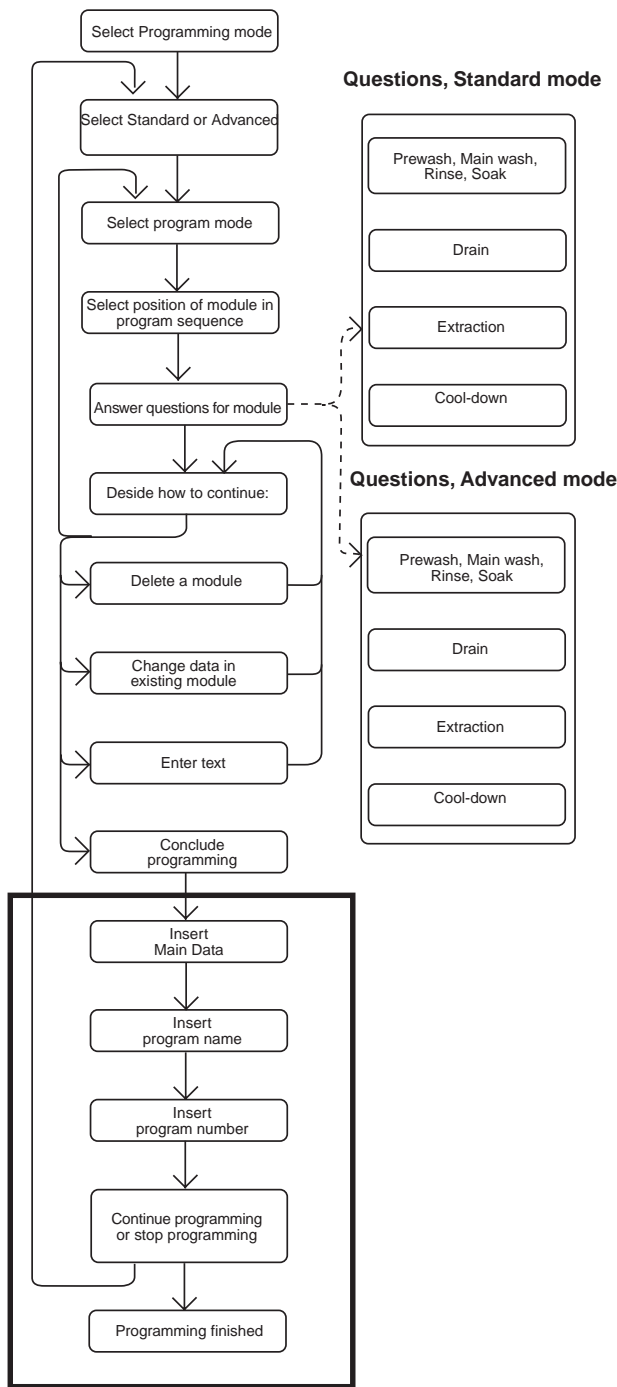
- Program more modules. Once these are finished and in a suitable order they will become a new wash program.
- Modify a module you have programmed already.
- Delete a module you have programmed already.
- Enter explanatory text.
- Stop programming.

How to delete an existing program module is described in chapter "To program on the basis of an existing program", section "To delete a module".

How to modify an existing program module is described in chapter "To program on the basis of an existing program", section "To change data in a program module".

This is where you enter text to explain what the program is used for. The text will be displayed when the program is used. No more than 155 characters.

When you have decided to conclude programming, you have to enter the program's "main data", and to give it a name and number. These steps are described in the next three points.



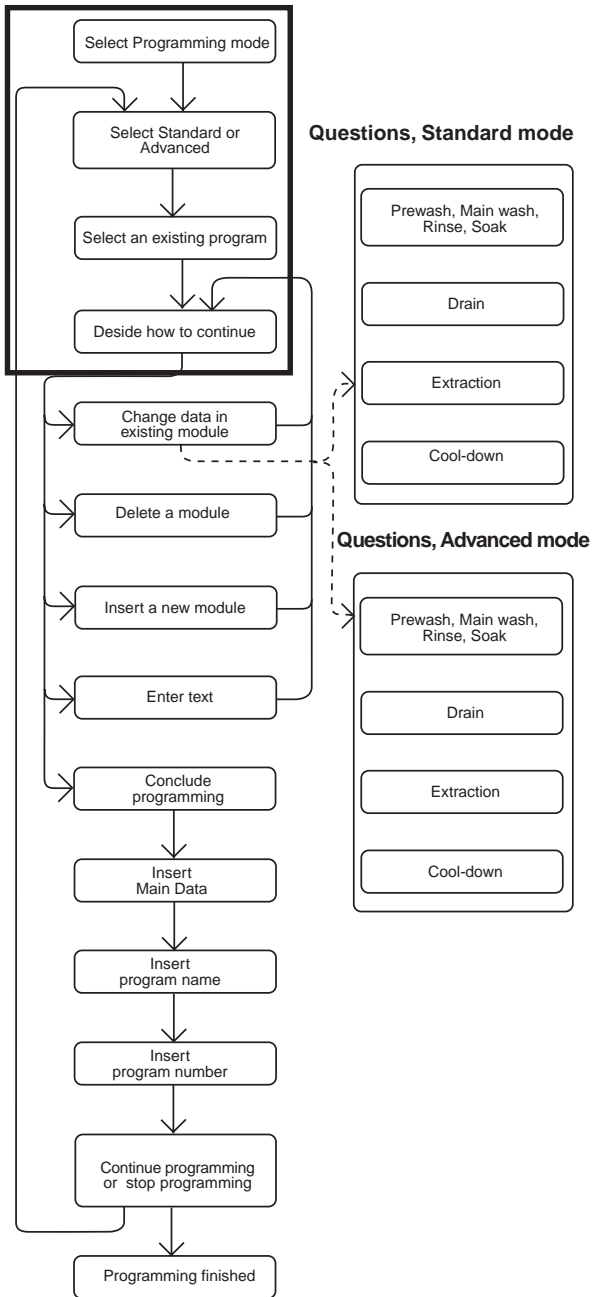
"Main data" is the name given to various functions which apply to the program as a whole. In Standard mode you can control the functions "buzzer at program end", "start program with extraction", and "calculate weight of load". In Advanced mode you can also program the cycle times for gentle action and normal action.

The program name may be up to 80 characters long.

You can give the wash program a new program number between 1 and 990. You can also replace an existing wash program by giving the new program the same number as the existing program. Note that the standard programs supplied with the machine (numbered 991 to 999) cannot be deleted or changed.

When the program has been fully programmed, you can choose either to go on and program another wash program, or to exit programming mode.

To program on the basis of an existing program



3931

This is described in detail in Chapter "To program on the basis of an existing program". The "questions" asked to help you construct each program module are described in Chapters "Program modules, Standard mode" and "Program modules, Advanced mode". The relevant section numbers are shown to the left of each description of the steps below.

To program on the basis of an existing program, you must start by selecting programming mode.

Next you decide whether you wish to write the whole program in Standard or Advanced mode.

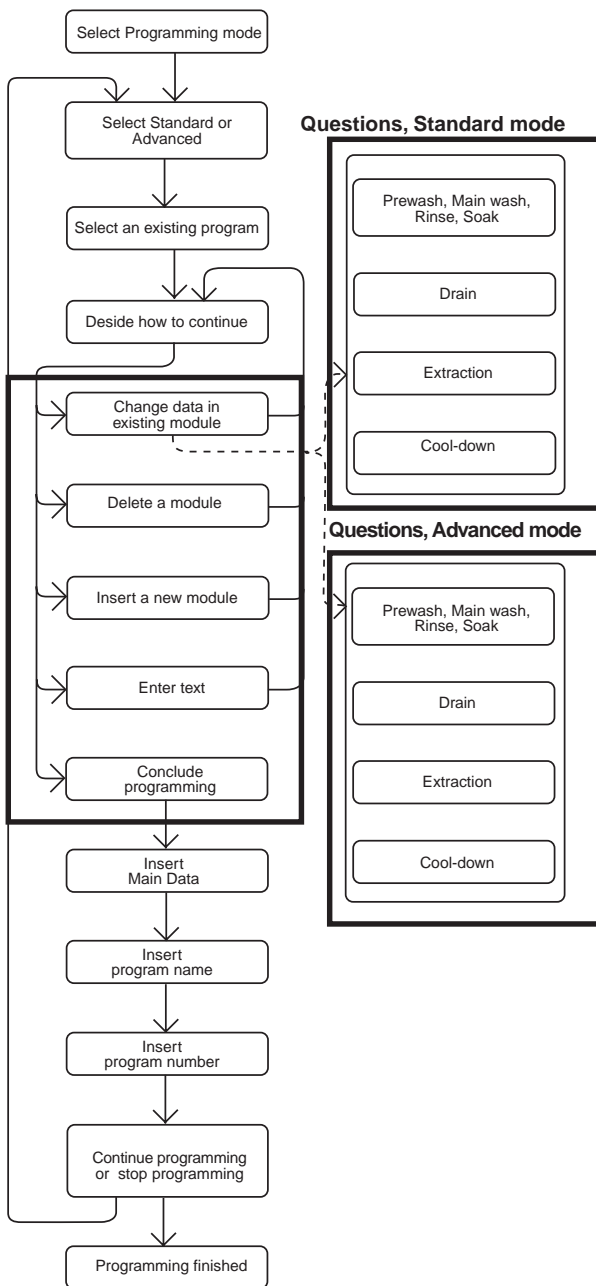
Standard mode allows you to include all the basic data required, while Advanced mode gives you a higher degree of control over all aspects of the program.

From the machine's program library you select the program you want to serve as the basis for your new program. You can choose any of the standard programs (numbered 991 to 999) supplied with the machine, or another program you have created in the past.

Now you can choose how to change the existing program:

Change parameters in one of the program modules in the existing program.

- Delete one or more modules in the existing wash program.
- Add new program modules and program them.
- Enter new explanatory text.
- Stop programming.



3931

You can alter any of the parameters in any module. The questions help you to determine factors such as times, speeds, temperatures, water and detergent options, and so on. Detailed explanations of each question can be found in these chapters:

Program modules, Standard mode

Program modules, Advanced mode

Here you are shown how to delete modules you do not require in your new wash program.

You can insert any suitable module wherever you wish in the program. You can choose from the following modules:

Prewash

Used for prewash and brief soaking.

Main wash

Used as the main wash module, with heating and detergent dispensing.

Rinse

Rinsing the wash load.

Drain

Drain stage after wash and rinse stages.

Extract

Cool-down

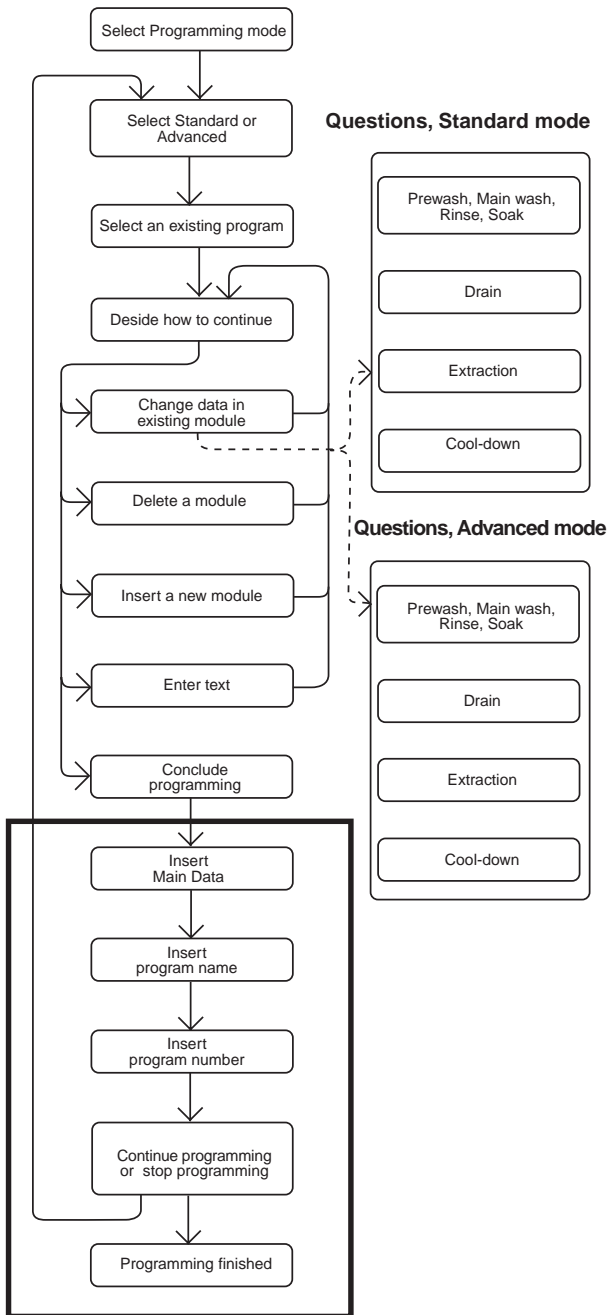
Used for controlled cooling of the wash water to prevent creasing of the wash load.

Soak

Used for longer soak stages.

This is where you enter the new text to explain what the program is used for. The text will be displayed when the program is used. No more than 155 characters.

When you have decided to conclude programming, you have to enter the program's "main data", and to give it a new name and number. These steps are described in the next three points.



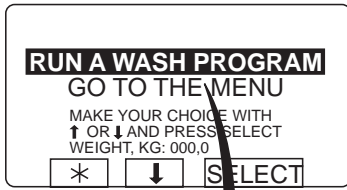
"Main data" is the name given to various functions which apply to the program as a whole. In Standard mode you can control the functions "buzzer at program end", "start program with extraction", and "calculate weight of load". In Advanced mode you can also program the cycle times for gentle action and normal action.

The program name may be up to 80 characters long.

You can give the wash program a new program number between 1 and 990. You can also replace an existing wash program by giving the new program the same number as the existing program. Note that the standard programs supplied with the machine (numbered 991 to 999) cannot be deleted or changed.

When the program has been fully programmed, you can choose either to go on and program another wash program, or to exit programming mode.

To delete a wash program



3589

If this menu is not currently displayed:

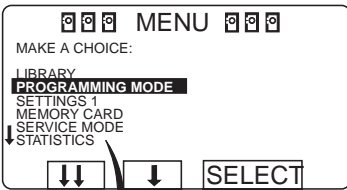
Press repeatedly.



Press to highlight "GO TO THE MENU".

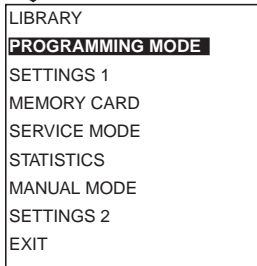


Press SELECT.



3663

Press once to highlight PROGRAMMING MODE.

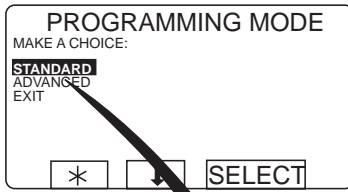


Press SELECT.

Password protection of programming function

If required you can implement password protection for the functions **PROGRAMMING** and **SETTINGS 1**. Once you have chosen a password (a four-digit number), both functions will be protected, and accessed using the same password.

Programming the password is done via the function **SETTINGS 1**, which is described in the section "Settings 1" of the Clarus Control Service manual.



3652



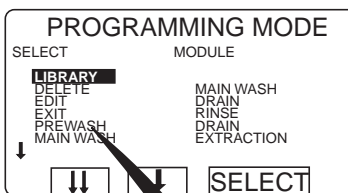
Check that STANDARD is highlighted.



Press SELECT.

Standard or Advanced mode?

This function is relevant only when you are creating or modifying a program. When you are deleting an entire program, it makes no difference to the result. You can let STANDARD (the default option) remain highlighted.



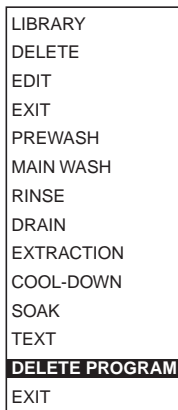
3924



Press ↓ to highlight DELETE PROGRAM



Press ⇓ to scroll quickly down through the menu.

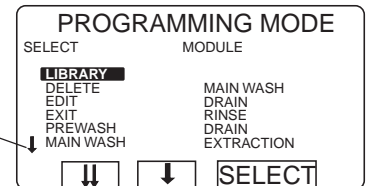


Press SELECT.

Using ⇓ and ⇑ to scroll quickly through menus

When the top item in a menu is highlighted, you have the option of scrolling down through the menu faster (this works in the same way in all menus where not all items can be displayed at once):

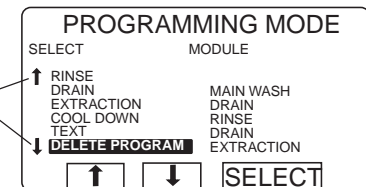
This arrow indicates that there are more items available in the menu.



4047

If you press ⇓ the next portion of the programming menu will be displayed. The last item in that portion of the menu will be highlighted:

These arrows indicate that there are more items available, above and below those currently displayed.



4048

Using this feature, you avoid having to press ↓ repeatedly to move through the menu item by item. Similarly you can use ⇑ whenever the last item on a portion of the menu is highlighted, to move quickly upwards through the menu.

PROGRAMMING MODE
PROGRAM LIBRARY

PR. NO.	NAME
1	HEAVY SOILED 90°C
2	HEAVY SOILED 60°C
991	NORMAL 95°C STD
992	NORMAL 60°C STD
993	NORMAL 40°C STD
994	INTENSIVE 95°C

3925



If necessary, use or to highlight the program to be deleted.



1	HEAVY SOILED 90°C
2	HEAVY SOILED 60°C
991	NORMAL 95°C STD
992	NORMAL 60°C STD
993	NORMAL 40°C STD
994	INTENSIVE 95°C
995	INTENSIVE 60°C
996	PERM.PRESS 60°C
997	PERM.PRESS 40°C
998	EXTRACT LOW 1 MIN
999	EXTRACT HIGH 5 MIN
	EXIT

Standard programs can not be deleted
The nine standard programs 991-999 supplied with the machine can not be deleted.



Press SELECT.

PROGRAMMING MODE
DELETE PROGRAM NUMBER: 2

ARE YOU SURE ?

PRESS SELECT OR ANY OTHER KEY

4049

If you change your mind and no longer wish to delete this program:

Press any key other than SELECT.



If you do wish to delete this program:

Press SELECT.



Choose 1 or 2:

1	HEAVY SOILED 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	EXTRACT LOW 1MIN
999	EXTRACT HIGH 5MIN
	EXIT

3926

1 To delete more programs:

Use or to highlight another program to delete, then press SELECT.

2 To stop deleting programs:

Press to highlight EXIT.



Press SELECT.

To create and write an entirely new program

The "Move back" key



3627

If you find you are in the wrong place, or if you want to undo earlier key presses:

Press the "Move back" key one or more times.

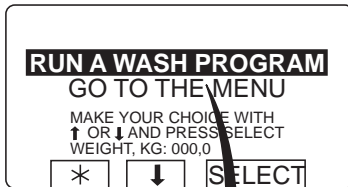
The "Move back" function

Each press of the "Move back" key moves you back one menu, in reverse order. By pressing this key repeatedly you can return to this menu at any time:



3651

Select Programming Mode



3589

If this menu is not currently displayed:

Press  repeatedly.



RUN A WASH PROGRAM
GO TO THE MENU

Press  to highlight "GO TO THE MENU".



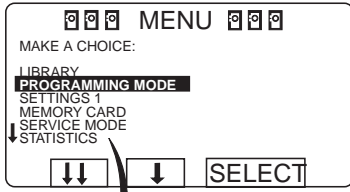
Press SELECT

Password protection of programming function

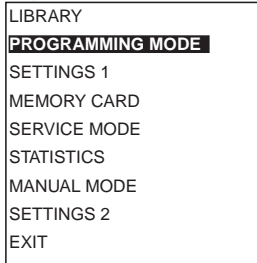
If required you can implement password protection for the functions **PROGRAMMING** and **SETTINGS 1**. Once you have chosen a password (a four-digit number), both functions will be protected, and accessed using the same password.

Programming the password is done via the function **SETTINGS 1**, which is described in the section "Settings 1" of the Clarus Control Service manual.

To create and write an entirely new program



3663



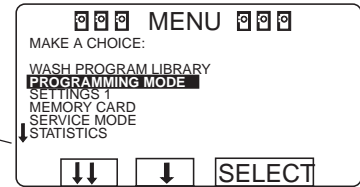
Press **↓** to highlight
DELETE PROGRAM



Press **SELECT**

Using **↓↓** and **↑↑** to scroll quickly through menus

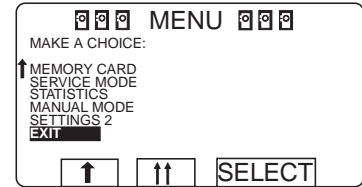
When the top item in a menu is highlighted, you have the option of scrolling down through the menu faster (this works in the same way in all menus where not all items can be displayed at once):



4050

This arrow indicates that there are more items available

If you press **↓↓** the next portion of the programming menu will be displayed. The last item in that portion of the menu will be highlighted:

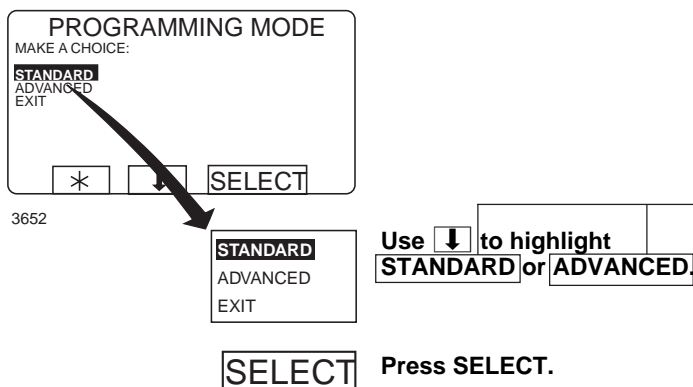


4051

Using this feature, you avoid having to press **↓** repeatedly to move through the menu item by item.

Similarly you can use **↑↑** whenever the last item on a portion of the menu is highlighted, to move quickly upwards through the menu.

Select Standard or Advanced mode



Standard or Advanced mode?

There are two distinct levels (modes) for programming. In **Standard** mode you can enter all the basic data required for a wash program. Other variables are set automatically using tried-and-tested standard values, which in most cases work without any problem.

In **Advanced** mode you have a higher degree of control over all aspects of the program. Using Advanced mode does, however, call for a detailed knowledge of the way in which wash programs work, to ensure that all the possibilities available are used correctly.

An example:

Via the modules **Prewash, Main wash, Rinse and Soak**, when using **Standard mode** you have control of the following functions:

Wash time, temperature, fill level, five water intake options, type of drum action during filling - heating - wash, detergent supply from one of five alternatives, ten signals for liquid supply, flushing cold/hot, spray signal.

In **Advanced mode** you also have control of the following functions:

Temperature hysteresis, max. temperature increase per minute, level hysteresis, drum speeds during filling - heating - wash, and maximum drum acceleration rate.

If you have selected Standard mode

All **Standard mode** modules are described in detail in chapter "**Program modules, Standard mode**".

Even if you have selected **Standard mode** for programming, you still have the option of using **Advanced mode** for programming any given module. Each time you access a different module to work through the questions there, you can choose either Advanced or Standard mode.

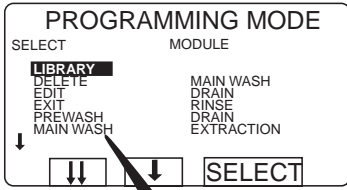
If you have selected Advanced mode

All **Advanced mode** modules are described in detail in chapter "**Program modules, Advanced mode**".

If you selected **Advanced mode** at the start of programming, all programming will continue in Advanced mode. You cannot switch back to Standard mode for some modules only.

To create and write an entirely new program

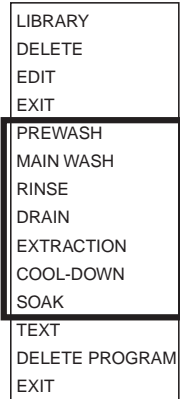
Select program module



3655



Use the cursor keys to...



.. highlight one of the seven program modules which go to make up a wash program.

(In this example we will choose "PREWASH".).



Press SELECT.

The wash program modules

The way in which programs are structured, using modules in sequence, is described in detail in chapter "An introduction to programming".

The modules can be programmed in either **Standard** or **Advanced** mode. Standard mode is described in chapter "Program modules, Standard mode", and Advanced mode in chapter "Program modules, Advanced mode".

Prewash

Used for prewash and brief soaking.

Main wash

Used as the main wash module, with heating and detergent dispensing.

Rinse

Drain

Drain stage after wash and rinse stages.

Extract

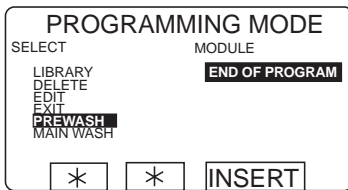
Cool-down

Used for controlled cooling of the wash water to prevent creasing of the wash load.

Soak

Used for longer soak stages.

Select position of module in program sequence



3889

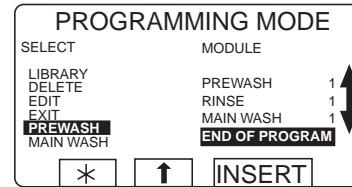
Because this is the first module in the new wash program, you do not need to select its position in the program sequence.



Press INSERT.

Position of module in wash program sequence

Obviously, when you are about to program the first module in a wash program, you have no choice of position in the sequence. When you program subsequent modules, however, you can use these keys: and to determine the position of the module in the program sequence.



3890

Once you have selected the position, press INSERT. Note that the new module will be inserted **above (before)** the position highlighted in the list on the right of the display.

If you want the module to be last in the sequence, press INSERT when END OF PROGRAM is highlighted.

To create and write an entirely new program

Answer the questions for the module

3658

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0°C
LEVEL	-
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILLING	N
ACTION DURING HEAT	N
ACTION DURING WASH	N
COMPARTMENT 1	N
DETERGENT 1 TIME	0:00
COMPARTMENT 2	N
DETERGENT 2 TIME	0:00
COMPARTMENT 3	N
DETERGENT 3 TIME	0:00
COMPARTMENT 4	N
DETERGENT 4 TIME	0:00
COMPARTMENT 5	N
DETERGENT 5 TIME	0:00
WATER FLUSH C/H	C
LIQUIDE DETERGENT 1	0:00
LIQUIDE DETERGENT 2	0:00
LIQUIDE DETERGENT 3	0:00
LIQUIDE DETERGENT 4	0:00
LIQUIDE DETERGENT 5	0:00
LIQUIDE DETERGENT 6	0:00
LIQUIDE DETERGENT 7	0:00
LIQUIDE DETERGENT 8	0:00
LIQUIDE DETERGENT 9	0:00
LIQUIDE DETERGENT 10	0:00
LIQUIDE DETERGENT 11	0:00
LIQUIDE DETERGENT 12	0:00
LIQUIDE DETERGENT 13	0:00
DRAIN	N
EXIT	

Use the function key or the numeric keys to answer the various questions.

<input type="button" value="Y/N"/>	Yes/No questions
<input type="button" value="- /G/N"/>	Drum action
<input type="button" value="C /H"/>	Cold or hot water
<input type="button" value="L /M/H"/>	Water level - standard mode
<input type="button" value="1"/> <input type="button" value="2"/> <input type="button" value="3"/>	Times, temperatures, levels - advanced mode
<input type="button" value="4"/> <input type="button" value="5"/> <input type="button" value="6"/>	
<input type="button" value="7"/> <input type="button" value="8"/> <input type="button" value="9"/>	
<input type="button" value="0"/>	
<input type="button" value="↓"/>	Press <input type="button" value="↓"/> to move on to the next question.
<input type="button" value="↑"/>	You can go back and change a question you have answered already by pressing <input type="button" value="↑"/> repeatedly.

Program module sequence numbering

All wash program modules are automatically given sequence numbers to help distinguish them. The first time a module is used it is given the number 1, the second time 2, and so on. For example:

Prewash	1	Extract	1
Drain	1	Rinse	1
Main wash	1	Drain	3
Cool-down	1	Rinse	2
Drain	2	Drain	4
		Extract	2

Different types of question

The questions in the various modules are of four different types, and to be answered in different ways:

Yes/No questions
The function key display shows which is a toggle function (the letter to the right of the highlighted question toggles between **N** and **Y** each time it is pressed). All Yes/No questions start with No (**N**) as the default value.

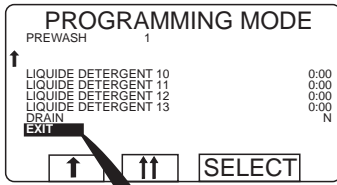
Drum action questions
The function key display shows which is a toggle function (the letter to the right of the highlighted question toggles from - to **G** to **N** and so on, each time it is pressed).
- = drum at a standstill
G = gentle action
N = normal action
All questions of this type start with normal action (**N**) as the default value.

Cold/hot water
Selection of water temp. for flushing detergent compartment.

Water level questions - standard mode
The function key display shows and is a toggle function (the letter to the right of the highlighted question toggles from -, to **L**, **M** to **H**, each time it is pressed).
- = No water filling
L = Low water level
M = Medium water level
H = High water level
All questions of this type have No water filling (-) as a preprogrammed value.

Times, temperatures, levels - advanced mode
To answer these questions, use the numeric keys. The number of digits required will vary.


If you make a mistake while entering digits:
Press ERASE one or several times.



3665



Once you have finished entering all the values:

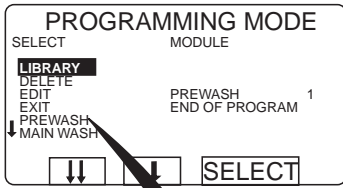
Press  to highlight "EXIT".

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0°C
LEVEL	-
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N
ACTION DURING WASH	N
COMPARTMENT 1	N
DETERGENT 1 TIME	0:00
COMPARTMENT 2	N
DETERGENT 2 TIME	0:00
COMPARTMENT 3	N
DETERGENT 3 TIME	0:00
COMPARTMENT 4	N
DETERGENT 4 TIME	0:00
COMPARTMENT 5	N
DETERGENT 5 TIME	0:00
WATER FLUSH C/H	C
LIQUIDE DETERGENT 1	0:00
LIQUIDE DETERGENT 2	0:00
LIQUIDE DETERGENT 3	0:00
LIQUIDE DETERGENT 4	0:00
LIQUIDE DETERGENT 5	0:00
LIQUIDE DETERGENT 6	0:00
LIQUIDE DETERGENT 7	0:00
LIQUIDE DETERGENT 8	0:00
LIQUIDE DETERGENT 9	0:00
LIQUIDE DETERGENT 10	0:00
LIQUIDE DETERGENT 11	0:00
LIQUIDE DETERGENT 12	0:00
LIQUIDE DETERGENT 13	0:00
DRAIN	N
EXIT	

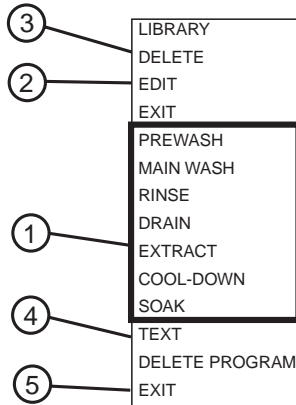
SELECT

Press SELECT.

Decide how you wish to continue programming



3666



SELECT

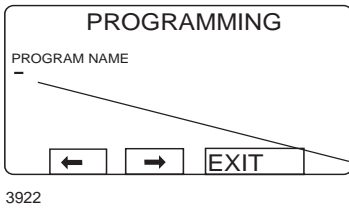
Choose 1, 2, 3, 4 or 5:

- 1 Continue programming new program modules:
Highlight one of the seven program modules.
 Press **SELECT**.
Continue answering questions as described earlier.
- 2 Modify an existing module:
Highlight EDIT and press SELECT. Then follow the instructions in chapter "To program on the basis of an existing program" section "To change data in a program module".
- 3 Delete a module:
Highlight DELETE and press SELECT. Then follow the instructions in chapter "To program on the basis of an existing program" section "To delete a module".
- 4 Enter text about the program:
Highlight TEXT and then press SELECT. Then follow the instructions in section "Enter text about the program".
- 5 Conclude programming:
Follow the instructions in section "Conclude programming".

"TEXT" means more information

Before you run a wash program, by pressing TEXT, the display can show a text which gives more information about the program. This can be helpful to be able to choose correct wash program. The same text can also be shown during the wash cycle.
 The text which can be used can consist of max. 150 digits and can be programmed in this function.

Programming text



Enter text (no more than approx. 150 characters) to accompany the program, with the aid of the functions described below.

The cursor shows where the letter/digit/character will be inserted.

The function keys have these functions:



Delete text.

One press:
Enter next letter/digit/character.



Two presses:
Insert space between words.



Visible when the cursor is not at the far left of a line: **Use this to move the cursor to a new line.**



Use the numeric keys to enter letters/digits/characters.



Visible when the cursor is at the far left of a line:

Use this to exit (conclude) entering text.

How to enter letters/digits/other characters

Letters, digits and other characters can be inserted using the numeric keypad. Each of the numeric keys gives access to several characters (3-5 per key), as follows:

1	2	3
ABCDE	FGHIJ	KLMNO
4	5	6
PQRST	UVWXY	ZÅÄÖ
7	8	9
01234	56789	= ()
		0
		° + -.

The first time you press a given key, the first character available through that key will appear on the display. One press on **1** produces A. One press on **9** produces =.

Simply press the relevant key the required number of times until the character you want appears on the display. For example, to insert the letter **C**, press key **1** three times. To insert: **)** (i.e. the end bracket), press **9** three times.

When the character you want is on the display, press to insert the next character.

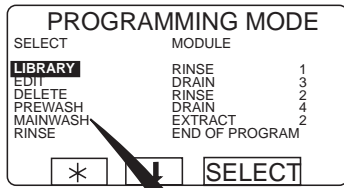
To insert a **space** between words, simply press a second time.

To **delete** a character, press Press it repeatedly to delete several characters.

To **start a new line** press .

To **end entering text**, press to bring the cursor to the far left of a new line. Then press **EXIT**

Conclude programming



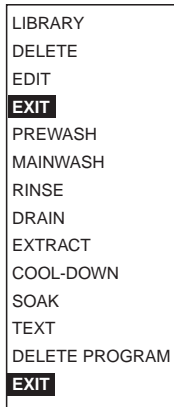
3667

Once you have completed programming of all modules in the program:

Press ...

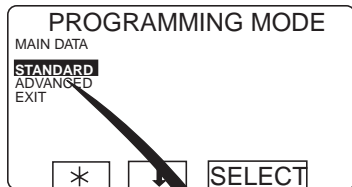


... to highlight either of the two "EXIT" options.



Press SELECT.

Insert Main Data



3668

This option is presented only if you selected Standard mode at step "Select standard or advanced mode".

What is Main Data?
"Main Data" is the name given to various functions which influence the entire wash program.



Highlight STANDARD or ADVANCED.

Standard or Advanced mode?
Using **Standard** mode (see section Main data, standard mode) you can control the following functions:



Press SELECT.

Buzzer at program end, start program with extraction, calculate weight of load.
Using **Advanced** mode (see section Main data, advanced mode) you can also control the following functions:
Cycle times for gentle action and normal action.

Main data, standard mode

PROGRAMMING MODE
MAIN DATA

BUZZER AT END	N
START EXTRACT	N
READY	

3669

* ↓ Y/N

BUZZER AT END	N
START EXTRACT	N
READY	

Y/N

Answer Yes (Y) or No (N).

↓

Press ↓.

Buzzer at end

If you answer **Yes (Y)**:
The buzzer will sound when the program ends.
The buzzer signal can be turned off by pressing the button with crossed buzzer-symbol.

If you answer **No (N)**:
No buzzer at program end.

BUZZER AT END	N
START EXTRACT	N
READY	

3670

Y/N

Answer Yes (Y) or No (N).

↓

Press ↓.

Start extract (start with extraction)

If you answer **Yes (Y)**:
The machine will start with a short extraction cycle when the program begins. This helps the load to soak up water, and the machine does not require so much extra filling (repeated topping up).

If you answer **No (N)**:
No extraction when the program begins.

BUZZER AT END	N
START EXTRACT	N
READY	

3672

SELECT

Once you have answered all the questions, highlight READY, then:

Press SELECT.

To create and write an entirely new program

Main data, advanced mode

The first three questions of Advanced mode are the same as in Standard mode, see section "Main data, standard mode."

BUZZER AT END	N
START EXTRACT	N
GENTLE ON TIME	SEC 3
GENTLE OFF TIME	SEC 12
NORMAL ON TIME	SEC 12
NORMAL OFF TIME	SEC 3
READY	

3892



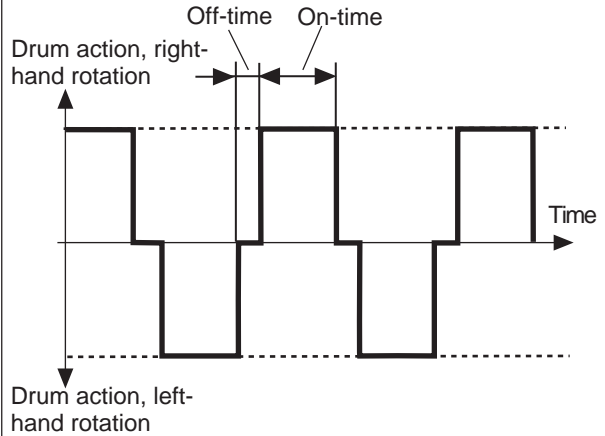
Use the machine key to enter the required value.
If wrong digits are given:
Press ERASE.



When ready
Press .

Drum action "on-times" and "off-times"

Here you can determine the precise structure of drum action (both "gentle" and "normal" action), by setting the individual lengths of time the drum is to rotate ("on-time") and be at a standstill ("off-time").
The values displayed initially are those recommended by supplier.



BUZZER AT END	N
START EXTRACT	N
GENTLE ON TIME SEC	3
GENTLE OFF TIME SEC	12
NORMAL ON TIME SEC	12
NORMAL OFF TIME SEC	3
READY	

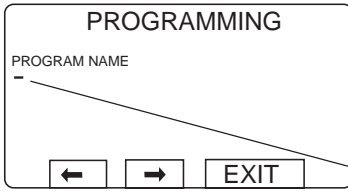
3894



Once you have answered all the questions, highlight **READY**, then:

Press SELECT.

Insert the program name



4215

Enter program name (no more than approx. 150 characters) to accompany the program, with the aid of the functions described below.

The cursor shows where the letter/digit/character will be inserted.

The function keys have these functions:



Delete text.

One press:
Enter next letter/digit/character.



Two presses:
Insert space between words.



Use the numeric keys to enter letters/digits/characters.



Use this to exit (conclude) entering text.

How to enter letters/digits/other characters

Letters, digits and other characters can be inserted using the numeric keypad. Each of the numeric keys gives access to several characters (3-5 per key), as follows:

1	2	3
ABCDE	FGHIJ	KLMNO
4	5	6
PQRST	UVWXY	ZÅÄÖ
7	8	9
01234	56789	= ()
		0
		° + - .

The first time you press a given key, the first character available through that key will appear on the display. One press on **1** produces A. One press on **9** produces =.

Simply press the relevant key the required number of times until the character you want appears on the display. For example, to insert the letter **C**, press key **1** three times. To insert: **)** (i.e. the end bracket), press **9** three times.

When the character you want is on the display, press to insert the next character.

To insert a **space** between words, simply press a second time.

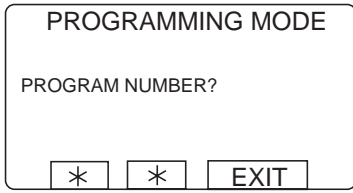
To **delete** a character, press Press it repeatedly to delete several characters.

To **start a new line** press .

To **end entering text**, press to bring the cursor to the far left of a new line. Then press **EXIT**

To create and write an entirely new program

Insert the program number



3675



Use the numeric keys to enter the program number.

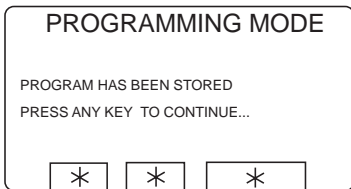


Press EXIT

Allowed program numbers for new programs

The standard programs supplied with machine have No. 991 - 999.

New programs can have numbers 001 - 990.



3676

The new program will now be stored in the control unit EEPROM.

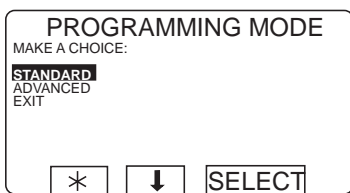
Once the program has been stored ("loaded"), a process which takes only a matter of seconds, the display will look like this (illustration, left).



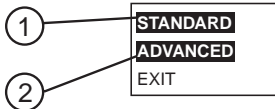
Press any key.



Continue programming or stop programming



3677



Choose 1, 2 or 3:

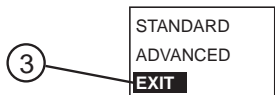
1 Continue programming in Standard mode:

Highlight **STANDARD** and press **SELECT**.



2 Continue programming in Advanced mode:

Highlight **ADVANCED** and press **SELECT**.



3 Stop programming: Highlight **EXIT** and press **SELECT**.



To program on the basis of an existing program

The "Move back" key



3627

If you find you are in the wrong place, or if you want to undo earlier key presses:

Press the "Move back" key one or more times.

The "Move back" function

Each press of the "Move back" key moves you back one menu, in reverse order. By pressing this key repeatedly you can return to this menu at any time:



3651

Select programming mode



3589



RUN A WASH PROGRAM
GO TO THE MENU



If this menu is not currently displayed:

Press  repeatedly.

Press  to highlight "GO TO THE MENU".

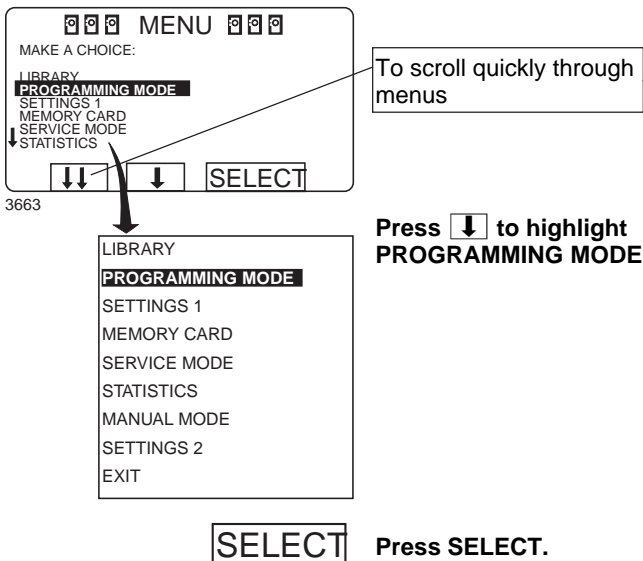
Press **SELECT**.

Password protection of programming function

If required you can implement password protection for the functions **PROGRAMMING** and **SETTINGS 1**. Once you have chosen a password (a four-digit number), both functions will be protected, and accessed using the same password.

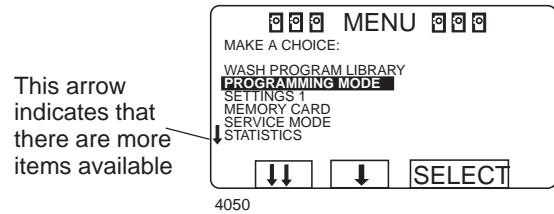
Programming the password is done via the function **SETTINGS 1**, which is described in the section "Settings 1" of the Clarus Control Service manual.

To program on the basis of an existing program

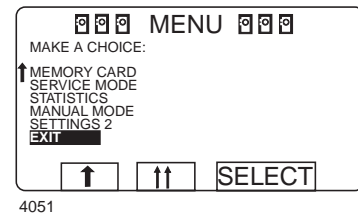


Using and to scroll quickly through menus

When the top item in a menu is highlighted, you have the option of scrolling down through the menu faster (this works in the same way in all menus where not all items can be displayed at once):



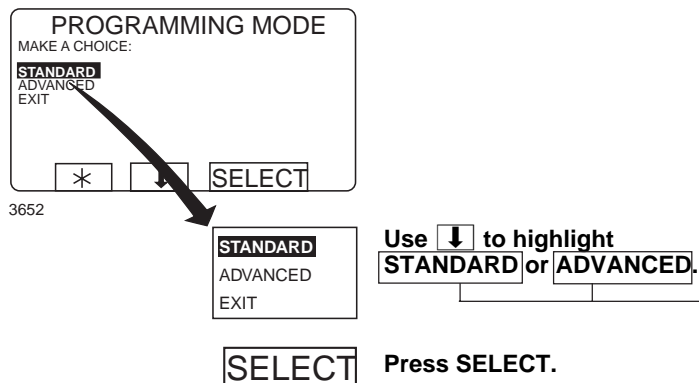
If you press the next portion of the programming menu will be displayed. The last item in that portion of the menu will be highlighted:



Using this feature, you avoid having to press repeatedly to move through the menu item by item.

Similarly you can use whenever the last item on a portion of the menu is highlighted, to move quickly upwards through the menu.

Select Standard or Advanced mode



Standard or Advanced mode?

There are two distinct levels (modes) for programming. In **Standard** mode you can enter all the basic data required for a wash program. Other variables are set automatically using tried-and-tested standard values, which in most cases work without any problem.

In **Advanced** mode you have a higher degree of control over all aspects of the program. Using Advanced mode does, however, call for a detailed knowledge of the way in which wash programs work, to ensure that all the possibilities available are used correctly.

An example:

Via the modules **Prewash, Main wash, Rinse and Soak**, when using **Standard mode** you have control of the following functions:

Wash time, temperature, fill level, five water intake options during filling, type of drum action during filling - heating - wash, detergent supply from one of five alternatives, ten signals for liquid supply, flushing cold/hot, spray signal.

In **Advanced mode** you also have control of the following functions:

Temperature hysteresis, max. temperature increase per minute, level hysteresis, drum speeds during filling - heating - wash, and maximum drum acceleration rate.

If you have selected Standard mode

All **Standard mode** modules are described in detail in chapter "Program modules, Standard mode".

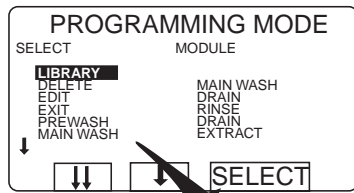
Even if you have selected **Standard mode** for programming, you still have the option of using **Advanced mode** for programming any given module. Each time you access a different module to work through the questions there, you can choose either Advanced or Standard mode.

If you have selected Advanced mode

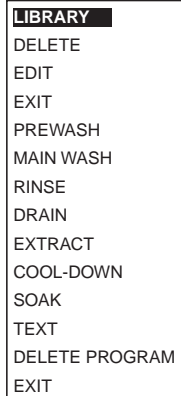
All **Advanced mode** modules are described in detail in chapter "Program modules, Advanced mode".

If you selected **Advanced mode** at the start of programming, all programming will continue in Advanced mode. You cannot switch back to Standard mode for some modules only.

Select the existing program to adapt

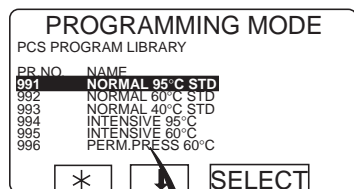


3895

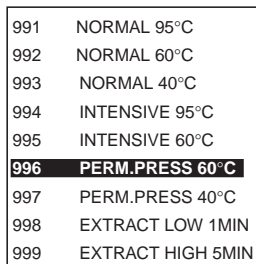


Check that PROGRAM
LIBRARY is highlighted ...

SELECT ... and press **SELECT**.



3896



Use **↓** to highlight the
program you want to adapt
(such as 996 PERM.PRESS
60°C).

SELECT Press **SELECT**.

What is the program library?

The program library lists all wash programs, both user and standard programs, showing their program numbers and names, for example:

1	OWN PROG. 40 DEGREES
2	OWN PROG. 60 DEGREES
3	OWN PROG. 90 DEGREES
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	EXTRACT LOW 1 MIN
999	EXTRACT HIGH 5 MIN

Each time a new program is stored in the machine program memory, its number and name will also be inserted automatically into the program library.

The program library can be used:

- When programming an existing program, which shall be modified.
- When programming a new program with an old as background.
- When choosing a suitable wash program.

To change data in a program module

PROGRAMMING MODE

SELECT	MODULE
LIBRARY	MAIN WASH
DELETE	COOL-DOWN
EDIT	DRAIN
PREWASH	RINSE
MAIN WASH	DRAIN

3897

The modules of the program selected will be shown on the right-hand side of the display.

Use  to highlight EDIT.

LIBRARY

DELETE

EDIT

EXIT

PREWASH

MAIN WASH

RINSE

DRAIN

EXTRACT

COOL-DOWN

SOAK

TEXT

DELETE PROGRAM

EXIT


 Press SELECT.

PROGRAMMING MODE

SELECT	MODULE
LIBRARY	MAIN WASH 1
DELETE	COOL-DOWN 1
EDIT	DRAIN 1
EXIT	RINSE 1
PREWASH	DRAIN 2
MAIN WASH	

3898

After you have highlighted **EDIT** and pressed **SELECT**, the first five program modules will be displayed, with the first of them highlighted.

If you want to edit some module other than the first (MAIN WASH 1), press  repeatedly to highlight the right one.

MAIN WASH 1

COOL-DOWN 1

DRAIN 1

RINSE 1

DRAIN 2

RINSE 2

DRAIN 3

RINSE 3

DRAIN 4

EXTRACT 1

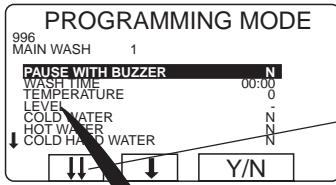
END OF PROGRAM

 Press EDIT.

Program module sequence numbering

All wash program modules are automatically given sequence numbers to help distinguish them. The first time a module is used it is given the number 1, the second time 2, and so on.

To program on the basis of an existing program



Option to scroll quickly through the menu.

3899

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0°C
LEVEL	-
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N
ACTION DURING WASH	N
COMPARTMENT 1	N
DETERGENT 1 TIME	0:00
COMPARTMENT 2	N
DETERGENT 2 TIME	0:00
COMPARTMENT 3	N
DETERGENT 3 TIME	0:00
COMPARTMENT 4	N
DETERGENT 4 TIME	0:00
COMPARTMENT 5	N
DETERGENT 5 TIME	0:00
WATER FLUSH C/H	C
LIQUIDE DETERGENT 1	0:00
LIQUIDE DETERGENT 2	0:00
LIQUIDE DETERGENT 3	0:00
LIQUIDE DETERGENT 4	0:00
LIQUIDE DETERGENT 5	0:00
LIQUIDE DETERGENT 6	0:00
LIQUIDE DETERGENT 7	0:00
LIQUIDE DETERGENT 8	0:00
LIQUIDE DETERGENT 9	0:00
LIQUIDE DETERGENT 10	0:00
LIQUIDE DETERGENT 11	0:00
LIQUIDE DETERGENT 12	0:00
LIQUIDE DETERGENT 13	0:00
DRAIN	N
EXIT	

Use the function key or the numeric keys to alter the answers to the various questions.

- Yes/No questions
- Drum action
- Cold or hot water
- Water level - standard mode
- Times, temperatures, levels - advanced mode
-
-
-

Press to move on to the next question.

You can go back and change a question you have answered already by pressing repeatedly.

The wash program modules

All modules and module questions are described in the chapters:

"Program modules, standard mode" and **"Program modules, advanced mode"**.

Different types of questions

The questions in the various modules are of four different types, and to be answered in a different way:

Yes/No questions

The function key display shows , which is a toggle function (the letter to the right of the highlighted question toggles between **N** and **Y** each time it is pressed). All Yes/No questions start with **No (N)** as the default value.

Drum action questions

The function key display shows , which is a toggle function (the letter to the right of the highlighted question toggles from - to **G** to **N** and so on, each time it is pressed).

- = drum at a standstill

G = gentle action

N = normal action

All questions of this type start with normal action (**N**) as the default value.

Cold/hot water

Selection of water temp. for flushing detergent compartment.

Water level questions - standard mode

The function key display shows , and is a toggle function (the letter to the right of the highlighted question toggles from **L**, **M** to **H** each time it is pressed).

L = Low water level

M = Medium water level

H = High water level

All questions of this type have Low level (**L**) as a preprogrammed value.

Times, temperatures, levels -advanced mode

To answer these questions, use the numeric keys.

The number of digits required will vary.

If you pressed wrong digits:

Press **ERASE** once or several times.



Once you have finished modifying values as required:

Press to highlight "READY".

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0°C
LEVEL	-
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N
ACTION DURING WASH	N
COMPARTMENT 1	N
DETERGENT 1 TIME	0:00
COMPARTMENT 2	N
DETERGENT 2 TIME	0:00
COMPARTMENT 3	N
DETERGENT 3 TIME	0:00
COMPARTMENT 4	N
DETERGENT 4 TIME	0:00
COMPARTMENT 5	N
DETERGENT 5 TIME	0:00
WATER FLUSH C/H	C
LIQUIDE DETERGENT 1	0:00
LIQUIDE DETERGENT 2	0:00
LIQUIDE DETERGENT 3	0:00
LIQUIDE DETERGENT 4	0:00
LIQUIDE DETERGENT 5	0:00
LIQUIDE DETERGENT 6	0:00
LIQUIDE DETERGENT 7	0:00
LIQUIDE DETERGENT 8	0:00
LIQUIDE DETERGENT 9	0:00
LIQUIDE DETERGENT 10	0:00
LIQUIDE DETERGENT 11	0:00
LIQUIDE DETERGENT 12	0:00
LIQUIDE DETERGENT 13	0:00
DRAIN	N
EXIT	

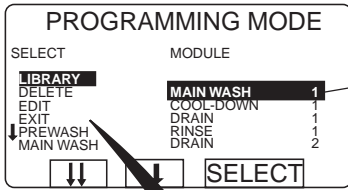
3900



Press SELECT.

To program on the basis of an existing program

To delete a module

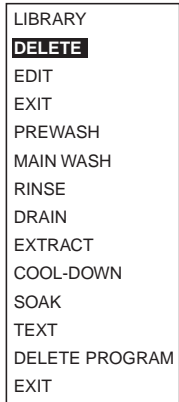


After you have chosen **DELETE**, the first five program modules will be displayed. The first module will be highlighted.

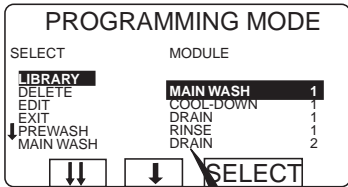
3907



Press to highlight **DELETE**.

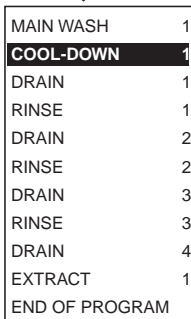


Press **SELECT**



If necessary press to highlight the module you want to delete (e.g. COOL-DOWN 1).

3908



Press **DELETE**.

①

MAINWASH	1
DRAIN	1
RINSE	1
DRAIN	2
RINSE	2
DRAIN	3
RINSE	3
DRAIN	4
EXTRACT	1
END OF PROGRAM	

The module will now have been deleted.

Choose 1 or 2:

3909



1 Delete more modules:



Use or to highlight another module.

DELETE

Press DELETE.



2 Stop deleting:

PRESS to highlight END OF PROGRAM.

②

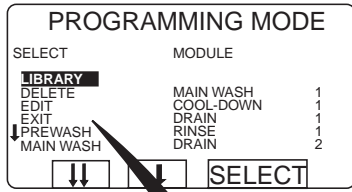
MAINWASH	1
DRAIN	1
RINSE	1
DRAIN	2
RINSE	2
DRAIN	3
RINSE	3
DRAIN	4
EXTRACT	1
END OF PROGRAM	

3910

EXIT

Press EXIT

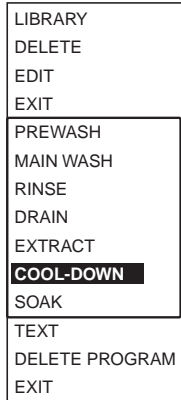
To insert a new module



3912



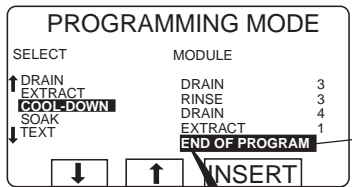
Use  and  to ...



...highlight one of the seven possible wash program modules (e.g. COOL-DOWN).




Press SELECT.

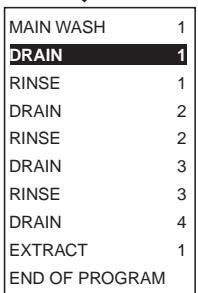


3911



Now the last four modules will be displayed. **END OF PROGRAM** will be highlighted.

Press  to determine where the new module will be inserted in the program sequence.



The module will be inserted above the module you highlight.

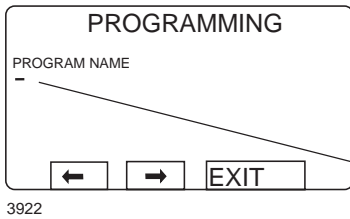
To insert the module last in the program, you should highlight **END OF PROGRAM**.



Press INSERT.

Now you can answer the questions as described in chapter "To create and write an entirely new program", section "Select position of module in program sequence" and following sections.

Programming text



Enter text (no more than approx. 150 characters) to accompany the program, with the aid of the functions described below.

The cursor shows where the letter/digit/character will be inserted.

The function keys have these functions:

Delete text.



One press:
Enter next letter/digit/character.



Two presses:
Insert space between words.

Visible when the cursor is not at the far left of a line: **Use this to move the cursor to a new line.**



Use the numeric keys to enter letters/digits/characters.



Visible when the cursor is at the far left of a line:



Use this to exit (conclude) entering text.

How to enter letters/digits/other characters

Letters, digits and other characters can be inserted using the numeric keypad. Each of the numeric keys gives access to several characters (3-5 per key), as follows:

1	2	3
ABCDE	FGHIJ	KLMNO
4	5	6
PQRST	UVWXY	ZÅÄÖ
7	8	9
01234	56789	= ()
	0	° + -.

The first time you press a given key, the first character available through that key will appear on the display. One press on **1** produces A. One press on **9** produces =.

Simply press the relevant key the required number of times until the character you want appears on the display. For example, to insert the letter **C**, press key **1** three times. To insert: **)** (i.e. the end bracket), press **9** three times.

When the character you want is on the display, press to insert the next character.

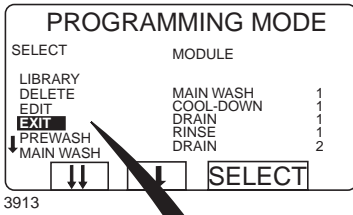
To insert a **space** between words, simply press a second time.

To **delete** a character, press Press it repeatedly to delete several characters.

To **start a new line** press .

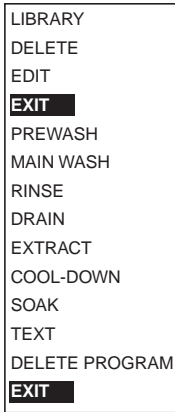
To **end entering text**, press to bring the cursor to the far left of a new line. Then press **EXIT**

Conclude programming



Once you have completed programming:

Press ...



...to highlight either of the two "EXIT".



Press SELECT.

Main data

Main data, standard mode

PROGRAMMING MODE
996 PERM.PRESS 60°C
MAIN DATA
BUZZER AT END N
START EXTRACT N
READY

* ↓ Y/N

3915

BUZZER AT END N
START EXTRACT N
READY

Y/N

Answer Yes (Y) or No (N).



Press .

What is Main Data?

"Main Data" is the name given to various functions which influence the entire wash program.

Buzzer at end

If you answer **Yes (Y)**:

The buzzer will sound when the program ends. The buzzer signal can be turned off by pressing the crossed buzzer-symbol.

If you answer **No (N)**:

No buzzer at program end.

To program on the basis of an existing program

BUZZER AT END	N
START EXTRACT	N
READY	

3670

Y/N

Answer Yes (Y) or No (N).

↓

Press

↓

.

Start extract (start with extraction)

If you answer **Yes (Y)**:

The machine will start with a short extraction cycle when the program begins. This helps the load to soak up water, and the machine does not require so much extra filling (repeated topping up).

If you answer **No (N)**:

No extraction when the program begins.

BUZZER AT END	N
START EXTRACT	N
READY	

3672

SELECT

Once you have answered all the questions, highlight READY, then:

Press **SELECT**.

Main data, advanced mode

The first three questions of Advanced mode are the same as in Standard mode, see section "Main data, standard mode".

BUZZER AT END	N
START EXTRACT	N
GENTLE ON TIME	SEC 3
GENTLE OFF TIME	SEC 12
NORMAL ON TIME	SEC 12
NORMAL OFF TIME	SEC 3
READY	

3892



Use the machine key to enter the required value.

If wrong digits are given:

Press ERASE.



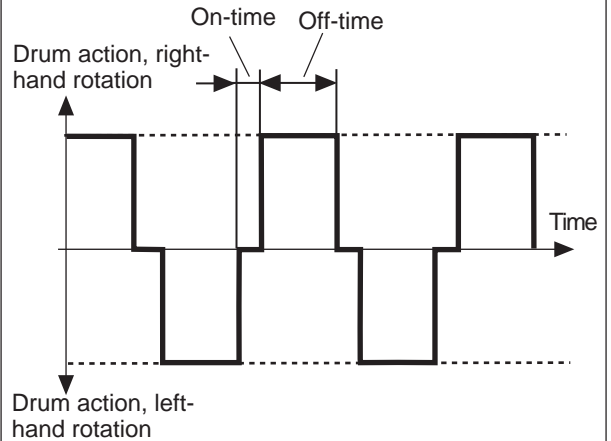
When ready

Press .

Drum action "on-times" and "off-times"

Here you can determine the precise structure of drum action (both "gentle" and "normal" action), by setting the individual lengths of time the drum is to rotate ("on-time") and be at a standstill ("off-time").

The values displayed initially are those recommended by supplier.



BUZZER AT END	N
START EXTRACT	N
GENTLE ON TIME SEC	3
GENTLE OFF TIME SEC	12
NORMAL ON TIME SEC	12
NORMAL OFF TIME SEC	3
READY	

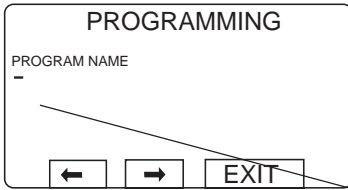
3894



Once you have answered all the questions, highlight READY, then:

Press SELECT.

Insert the program name



4215

Enter program name (no more than approx. 150 characters) to accompany the program, with the aid of the functions described below.

The cursor shows where the letter/digit/character will be inserted.

The function keys have these functions:



Delete text.

One press:
Enter next letter/digit/character.



Two presses:
Insert space between words.



Use the numeric keys to enter letters/digits/characters.



Use this to exit (conclude) entering text.

How to enter letters/digits/other characters

Letters, digits and other characters can be inserted using the numeric keypad. Each of the numeric keys gives access to several characters (3-5 per key), as follows:

1	2	3
ABCDE	FGHIJ	KLMNO
4	5	6
PQRST	UVWXY	Z
7	8	9
01234	56789	= ()
		0
		° + - .

The first time you press a given key, the first character available through that key will appear on the display. One press on **1** produces A. One press on **9** produces =.

Simply press the relevant key the required number of times until the character you want appears on the display. For example, to insert the letter **C**, press key **1** three times. To insert: **)** (i.e. the end bracket), press **9** three times.

When the character you want is on the display, press to insert the next character.

To insert a **space** between words, simply press a second time.

To **delete** a character, press Press it repeatedly to delete several characters.

To **start a new line** press .

To **end entering text**, press to bring the cursor to the far left of a new line. Then press **EXIT**

Insert the program number

PROGRAMMING MODE
ENTER A PROGRAM NUMBER?
* * EXIT

3918

1 2 3
4 5 6
7 8 9
0

Use the numeric keys to enter the new program number.

EXIT

Press EXIT

Allowed program numbers for new programs

The standard programs supplied with machine have No. 991 - 999.

New programs can have numbers 001 - 990.

PROGRAMMING MODE
PROGRAM HAS BEEN STORED
PRESS ANY KEY TO CONTINUE...
* * *

3676

1 2 3
4 5 6
7 8 9
↩ 0

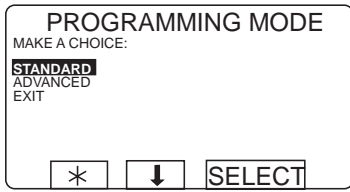
The new program will now be stored in the control unit EEPROM.

Once the program has been stored ("loaded"), a process which takes only a matter of seconds, the display will look like this (illustration, left).

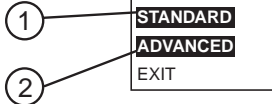
Press any key.



Continue programming or stop programming



3677

**Choose 1, 2 or 3:**

- 1 Continue programming in Standard mode:

Highlight STANDARD and press SELECT.



- 2 Continue programming in Advanced mode:

Highlight ADVANCED and press SELECT.



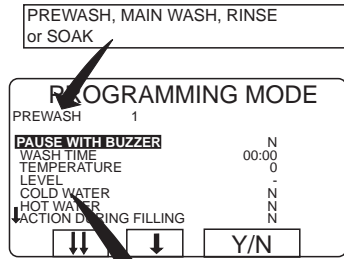
- 3 Stop programming:

Highlight EXIT and press SELECT.



Program modules, Standard mode

The Prewash, Main wash, Rinse, and Soak, Standard mode



3697

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0°C
LEVEL	-
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N
ACTION DURING WASH	N
COMPARTMENT 1	N
DETERGENT 1 TIME	0:00
COMPARTMENT 2	N
DETERGENT 2 TIME	0:00
COMPARTMENT 3	N
DETERGENT 3 TIME	0:00
COMPARTMENT 4	N
DETERGENT 4 TIME	0:00
COMPARTMENT 5	N
DETERGENT 5 TIME	0:00
WATER FLUSH C/H	C
LIQUIDE DETERGENT 1	0:00
LIQUIDE DETERGENT 2	0:00
LIQUIDE DETERGENT 3	0:00
LIQUIDE DETERGENT 4	0:00
LIQUIDE DETERGENT 5	0:00
LIQUIDE DETERGENT 6	0:00
LIQUIDE DETERGENT 7	0:00
LIQUIDE DETERGENT 8	0:00
LIQUIDE DETERGENT 9	0:00
LIQUIDE DETERGENT 10	0:00
LIQUIDE DETERGENT 11	0:00
LIQUIDE DETERGENT 12	0:00
LIQUIDE DETERGENT 13	0:00
DRAIN	N
EXIT	

To access this function, see chapter "To create and write an entirely new program."

Answer the various questions. Press **↓** to move on to the next question.

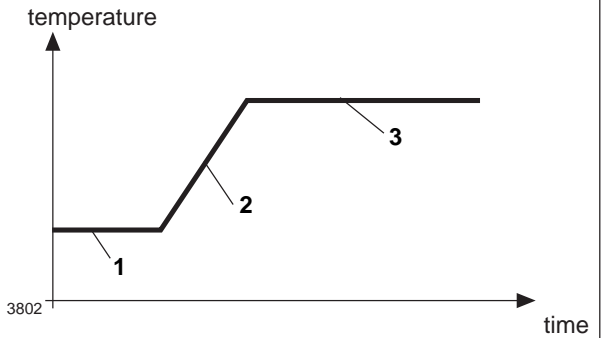
You can go back and change questions already answered by pressing **↑** repeatedly.

The module structure

The questions are identical for the Prewash, Main wash and Rinse modules.

Soak can be programmed for a longer time (up to 27 hours and 46 min.) Other modules are max 1 hour.

The module consists of three different parts:



- 1 Water filling**
The motor may be at a standstill, on gentle action or normal action. Detergent may be dispensed.
- 2 Water heating**
The motor may be at a standstill, on gentle action or normal action.
If heating is not programmed the program advances to normal action.
- 3 Motor action at correct temperature and water level**
The motor may be at a standstill, on gentle action or normal action. Temperature and water level are monitored and can be adjusted when necessary.

Program modules, standard mode

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0°C
LEVEL	-
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N

3698

Y/N

Answer Yes (Y) or No (N).



Press .

Pause with buzzer

If you answer **Yes (Y)**:

The washer extractor will stop and the buzzer will sound before the program module starts.

Turn off the buzzer by pressing the button with crossed buzzer-symbol. Start the program by pressing **START**.

If you answer **No (N)**:

The program module will start without pause or buzzer.

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0°C
LEVEL	-
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N

3699



Use the numeric keys to enter the required value.

If wrong digits are given:

Press **ERASE**.



When ready:

Press .

Wash time

Prewash, Main wash and Rinse

The maximum wash time is 59 minutes and 59 seconds, in increments of 1 second.

Soak

The maximum wash time is 27 hours and 46 minutes in steps of 1 minute.

Time taken for filling and heating water is not included in the programmed time.

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0°C
LEVEL	-
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N

3700



Use the numeric keys to enter the required value.

If wrong digits are given:

Press **ERASE**.



When ready:

Press .

Temperature

Choose a temperature between 0 - 98°C or 0 - 208°F (whole degrees, no decimals).

To change temperature scale °C/°F

You can change the temperature scale using the "SETTINGS" function, which is described in the Service Manual.

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0°C
LEVEL	-
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N

3775

L/M/H



Answer:
- = No water filling
L = Low water level
M = Medium water level
H = High water level

Press .

Fill level

The function key display shows **L/M/H** and is a toggle function ((the letter to the right of the highlighted question toggles from **L**, **M** to **H** each time it is pressed).
- = No water filling
L = Low water level
M = Medium water level
H = High water level
L, **M** and **H** are standard levels, properly tested for each type of machine.

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0°C
LEVEL	-
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N

3799

Y/N



Answer Yes (Y) or No (N).

Press .

Cold water

If you answer **Yes (Y)**:
 The drum will fill with cold water until the correct water level is reached.
 If you answer **No (N)**:
 No cold water filling.

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0°C
LEVEL	-
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N

3800

Y/N



Answer Yes (Y) or No (N).

Press .

Hot water

If you answer **Yes (Y)**:
 The drum will fill with hot water until the correct water level is reached.
 If only hot water valve is open and the water temperature is higher than the programmed, the cold water valve will automatically open to adjust the temperature.
 If you answer **No (N)**:
 No hot water filling.

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0°C
LEVEL	-
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N

3814

Cold and hot water - correct temperature on intake

If you answer **Yes (Y)** to both of these questions, both the cold water and the hot water valves will open when the machine is filling. If the set temperature limit is exceeded, the hot water valve will be closed. When the temperature has fallen 4°C below the set temperature limit, the hot water valve will open again. In this way you can achieve the correct water temperature even in an unheated washer extractor. Note, however, that the water valves will close when the correct water level is reached, regardless of whether the correct temperature has been reached.

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0°C
LEVEL	-
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N

4211

Cold hard water

If you answer **Yes (Y)**:
The drum will fill with cold hard water until the correct water level is reached.
If you answer **No (N)**:
No cold hard water filling.

Y/N Answer Yes (Y) or No (N).

Press .

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0°C
LEVEL	-
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N

4212

Tank water

If you answer **Yes (Y)**:
The drum will be filled from the specified tank (e.g. a tank for reuse of water or a special laundry product).
If you answer **No (N)**:
No filling from these sources.

Y/N Answer Yes (Y) or No (N).

Press .

ACTION DURING FILL	N
ACTION DURING HEAT	N
ACTION DURING WASH	N
COMPARTMENT 1	N
DETERGENT 1 TIME	0:00
COMPARTMENT 2	N
DETERGENT 2 TIME	0:00
COMPARTMENT 3	N
DETERGENT 3 TIME	0:00
COMPARTMENT 4	N
DETERGENT 4 TIME	0:00

3801

-/G/N

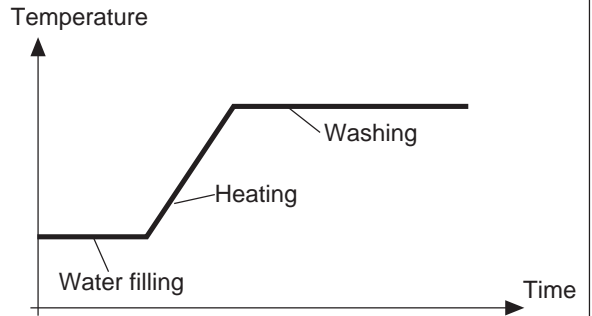


Options:
- = Drum at standstill
G = Gentle action
N = Normal action

Press .

Drum action at different stages

The program module consists of three different stages:



During each of these stages you can determine whether the drum is to be at a standstill, on gentle action or normal action.

Options for each question:

- = Drum at standstill
G = Gentle action
N = Normal action

You can set the drum "on-times" and "off-times" for gentle action and normal action when programming via "Insert Main Data, Advanced mode", **see the section "Main Data"**.

ACTION DURING WASH	N
COMPARTMENT 1	N
DETERGENT 1 TIME	0:00
COMPARTMENT 2	N
DETERGENT 2 TIME	0:00
COMPARTMENT 3	N
DETERGENT 3 TIME	0:00
COMPARTMENT 4	N
DETERGENT 4 TIME	0:00
COMPARTMENT 5	N
DETERGENT 5 TIME	0:00

3804

Y/N



Answer Yes (Y) or No (N).

Press .

Detergent options for machines with detergent dispensers

For machines with integral detergent dispensers there are five options for detergent dispensing.

If you insert Yes (Y), water will flush through that compartment throughout the time that the drum is filling with water at the beginning of the program module.

ACTION DURING WASH	N
COMPARTMENT 1	N
DETERGENT 1 TIME	0:00
COMPARTMENT 2	N
DETERGENT 2 TIME	0:00
COMPARTMENT 3	N
DETERGENT 3 TIME	0:00
COMPARTMENT 4	N
DETERGENT 4 TIME	0:00
COMPARTMENT 5	N
DETERGENT 5 TIME	0:00

Detergent dispensing in machines with detergent compartments
 Here you can determine the length of time water will be flushed through each individual compartment.

4830

COMPARTMENT 2	N
DETERGENT 2 TIME	0:00
COMPARTMENT 3	N
DETERGENT 3 TIME	0:00
COMPARTMENT 4	N
DETERGENT 4 TIME	0:00
COMPARTMENT 5	N
DETERGENT 5 TIME	0:00
WATER FLUSH C/H	C
LIQUIDE DETERGENT 1	0:00
LIQUIDE DETERGENT 2	0:00

Water for flushing detergent compartment
 Every time detergent is supplied from a detergent compartment, the compartment is flushed through to remove residues of detergent. Here you can specify if the compartment is to be flushed clean using cold or hot water.

4213

Specify cold (C) or hot (H) water.
 Press

WATER FLUSH C/H	C
LIQUIDE DETERGENT 1	0:00
LIQUIDE DETERGENT 2	0:00
LIQUIDE DETERGENT 3	0:00
LIQUIDE DETERGENT 4	0:00
LIQUIDE DETERGENT 5	0:00
LIQUIDE DETERGENT 6	0:00
LIQUIDE DETERGENT 7	0:00
LIQUIDE DETERGENT 8	0:00
LIQUIDE DETERGENT 9	0:00
LIQUIDE DETERGENT 10	0:00
LIQUIDE DETERGENT 11	0:00
LIQUIDE DETERGENT 12	0:00
LIQUIDE DETERGENT 13	0:00
DRAIN	N
EXIT	

3805



Use the numeric keys to enter the required value.

If wrong digits are given:

Press ERASE.



When ready

Press .

Dispensing liquid detergent from external system

For machines with an external detergent supply system there are ten control signals which can open external supply valves for a specified time.

The valves open for the time set, starting from when the drum has stopped filling.

The maximum time is 4 minutes and 10 seconds, in increments of 1 second.

The supply lines are flushed clean automatically.

LIQUIDE DETERGENT 2	0:00
LIQUIDE DETERGENT 3	0:00
LIQUIDE DETERGENT 4	0:00
LIQUIDE DETERGENT 5	0:00
LIQUIDE DETERGENT 6	0:00
LIQUIDE DETERGENT 7	0:00
LIQUIDE DETERGENT 8	0:00
LIQUIDE DETERGENT 9	0:00
LIQUIDE DETERGENT 10	0:00
LIQUIDE DETERGENT 11	0:00
LIQUIDE DETERGENT 12	0:00
LIQUIDE DETERGENT 13	0:00
DRAIN	N
EXIT	

4082



Answer Yes (Y) or No (N).



Press .

Drain

A streamlined means of programming the drain stage. If you require times and settings different from those listed below you must answer **No (N)**, then program a separate drain module immediately after this module, see the section "Drain, advanced mode".

If you answer **Yes (Y)**:

The program module will end with a drain sequence with these settings:

No pause before drain.

Drain plus normal speed 50 sec.

Distribution time 40 sec.

(These times are default values, but can be altered through the function SETTINGS 2, see service manual.)

If you answer **No (N)**:

No drain.

LIQUIDE DETERGENT 2	0:00
LIQUIDE DETERGENT 3	0:00
LIQUIDE DETERGENT 4	0:00
LIQUIDE DETERGENT 5	0:00
LIQUIDE DETERGENT 6	0:00
LIQUIDE DETERGENT 7	0:00
LIQUIDE DETERGENT 8	0:00
LIQUIDE DETERGENT 9	0:00
LIQUIDE DETERGENT 10	0:00
LIQUIDE DETERGENT 11	0:00
LIQUIDE DETERGENT 12	0:00
LIQUIDE DETERGENT 13	0:00
DRAIN	N
EXIT	

3813

SELECT

Once you have answered all the questions, highlight READY, then:

Press SELECT to exit the program module.

Drain, standard mode

PROGRAMMING MODE	
DRAIN	1
PAUSE BEFORE DRAIN	N
ACTION	N
DRAIN A	N
DRAIN TIME	0:50
DISTRIBUTION TIME	0:40
READY	

3803

PAUSE BEFORE DRAIN	N
ACTION	N
DRAIN A	N
DRAIN TIME	0:50
DISTRIBUTION TIME	0:40
READY	

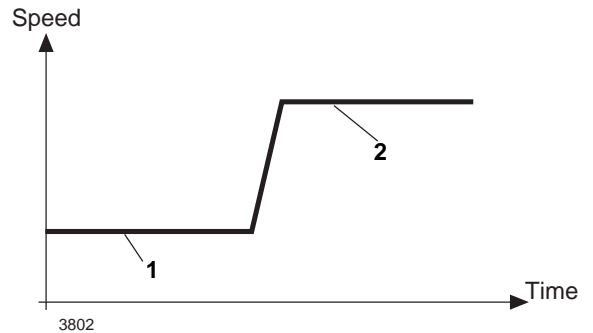
To access this function, see chapter "To create and write an entirely new program".

Answer the various questions in the module. Press **↓** to move on to the next question.

You can go back and change questions already answered by pressing **↑** repeatedly.

The module structure

Drain module can consist of part 1 or 2, or both 1 and 2 depending on how one wants the program:



1 Drain time

The drain will be open. The motor may be at a standstill, on gentle action or normal action. During this time the drum water will be discharged. If this time is set to 0 the drain module will only consist of distribution time.

2 Distribution time

The drain will be open. The motor runs at distribution speed. During this time the wash load will be distributed evenly around the walls of the inner drum.

If this time is set to 0 the drain module will only consist of draining time.

PAUSE BEFORE DRAIN	N
ACTION	N
DRAIN A	N
DRAIN TIME	0:50
DISTRIBUTION TIME	0:40
READY	

3808

Y/N

Answer Yes (Y) or No (N).



Press **↓**.

Pause before drain

If you answer **Yes (Y)**:

The washer extractor will stop and the buzzer will sound before the drain opens.

Turn off the buzzer by pressing the button with crossed buzzer-symbol. Start the program by pressing **START**.

If you answer **No (N)**:

The program module will open, with no pause.

PAUSE BEFORE DRAIN	N
ACTION	N
DRAIN A	N
DRAIN TIME	0:50
DISTRIBUTION TIME	0:40
READY	

3806

-/G/N



Options:
- = Drum at standstill
G = Gentle action
N = Normal action

Press .

Drum action during drain cycle

Here you can determine the drum action during the time programmed for the drain cycle:

Options:
- = Drum at standstill
G = Gentle action
N = Normal action

PAUSE BEFORE DRAIN	N
ACTION	N
DRAIN A	N
DRAIN TIME	0:50
DISTRIBUTION TIME	0:40
READY	

4223

Y/N



Answer Yes (Y) or No (N)

Press .

Choose drain valve

If the machine has two drain valves (for example to allow water to be reused during some wash sequences) here you can specify which drain valve is to open.

If you answer **Yes (Y)**:
 The machine's normal drain will remain closed during the drain sequence. The drain valve for water recovery will open instead.

If you answer **No (N)**:
 The machine's normal drain will open during the drain sequence. The drain valve for water recovery will remain closed.

PAUSE BEFORE DRAIN	N
ACTION	N
DRAIN A	N
DRAIN TIME	0:50
DISTRIBUTION TIME	0:40
READY	

3807

1 2 3
 4 5 6
 7 8 9
 0

Use the numeric keys to enter the required value.

If wrong digits are given:
Press ERASE.



When ready
 Press .

Drain time

Here you can determine the drain time:

The maximum time is 42 minutes and 30 seconds, in increments of 10 seconds.

PAUSE BEFORE DRAIN	N
ACTION	N
DRAIN A	N
DRAIN TIME	0:50
DISTRIBUTION TIME	0:40
READY	

3809



Use the numeric keys to enter the required value.

If wrong digits are given:
Press ERASE.

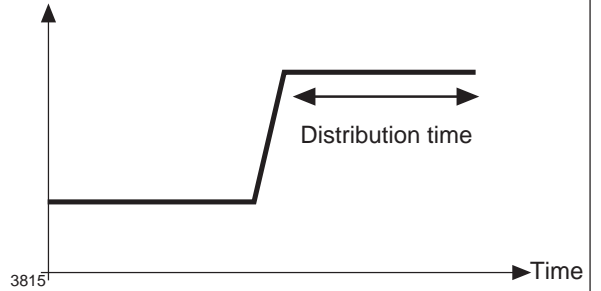


When ready
Press .

Distribution time

Here you can determine the length of time the drum operates at distribution speed:

Drum speed



The maximum time is 42 minutes and 30 seconds, in increments of 10 seconds.

PAUSE BEFORE DRAIN	N
ACTION	N
DRAIN A	N
DRAIN TIME	0:50
DISTRIBUTION TIME	0:40
READY	

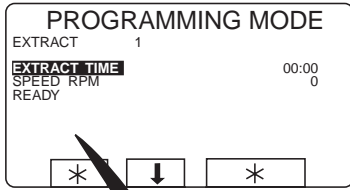
3810



Once you have answered all the questions, highlight READY, then:

Press SELECT to exit the program module.

Extraction, Standard mode



3818



To access this function, see sections "To start a wash program from the program library" - "Pause" .

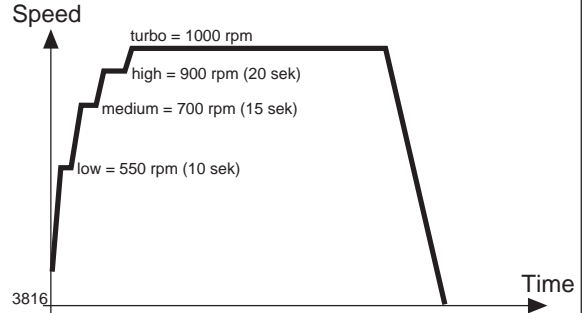
Answer the various questions in the module. Press **↓** to move on to the next question.

You can go back and change questions already answered by pressing **↑** repeatedly.

The module structure

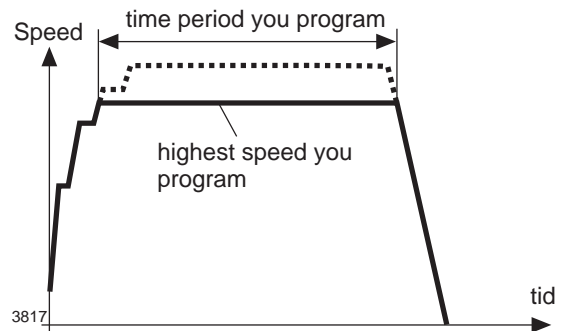
For machines with **frequency-controlled motors**:

The extraction time module consists of a single extraction period, for which you can determine extraction time and speed. The machine does not accelerate to its highest speed immediately, however. Instead it accelerates in several steps, because some of the water needs to be extracted at lower speeds. Shown below are the standard values the machine has when delivered:



If you program a low (maximum) extraction speed, the number of acceleration steps at the beginning of extraction may be reduced.

The time you program is the period the machine will run at its highest speed.



For machines **without frequency-controlled motors** you must choose one of the extraction speed options shown on the display.



3822

EXTRACT TIME	00:00
SPEED RPM	0
READY	

3819

1	2	3
4	5	6
7	8	9
	0	

Use the numeric keys to enter the required value.

If wrong digits are given: Press ERASE.

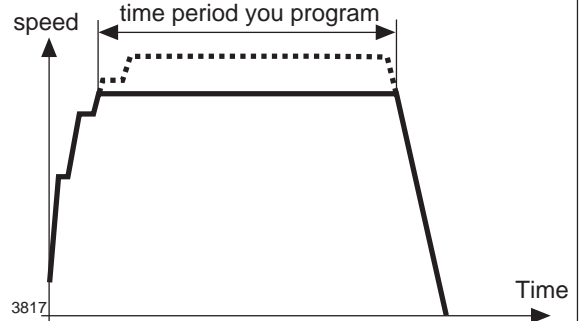


When ready Press .

Extraction time

The maximum extraction time is 59 minutes and 59 seconds, in increments of 1 second.

The period during which the drum is reaching its correct speed is not included in the "extraction time".



EXTRACT TIME	00:00
SPEED RPM	0
READY	

3820

1	2	3
4	5	6
7	8	9
	0	

Use the numeric keys to enter the required value.

If wrong digits are given: Press ERASE.



When ready Press .

Extraction speed

For machines with frequency-controlled motors:

Enter the extraction speed you require. The maximum speed varies from one machine to another.

If you enter a value which is too high, the value will be changed to the maximum allowed when you press .

For machines without frequency-controlled motors:

If the machine does not have a frequency-controlled motor, the available extraction speed options will be shown on the display.

EXTRACT TIME	00:00
SPEED (LOW=400 HIGH=1000) RPM	0
READY	

Enter one of these values. Note that no other values are allowed.

EXTRACT TIME	00:00
SPEED RPM	0
READY	

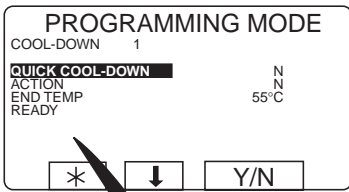
3821

Once you have answered all the questions, highlight READY, then:



Press SELECT to exit the program module.

Cool-down, Standard mode

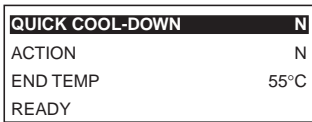


3824

To access this function, see chapter "To create and write an entirely new program".

Answer the various questions in the module. Press **↓** to move on to the next question.

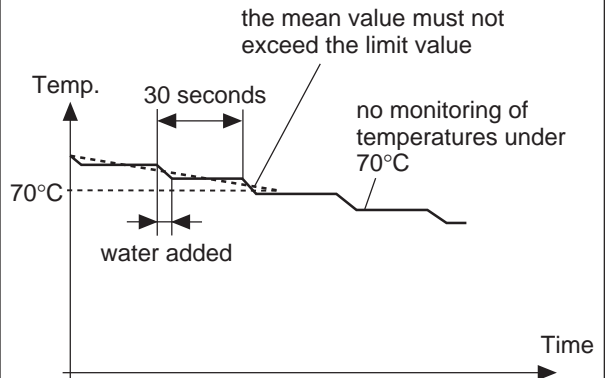
You can go back and change questions already answered by pressing **↑** repeatedly.



The module structure

The cool-down module is used to achieve controlled cooling of the wash water. This helps prevent creasing of the wash load.

During the cool-down sequence cold water is added for a brief period at 30 second intervals. When temperature is over 70°C the cool down is monitored so that the limit value (4°C/min) is not exceeded. If the limit value is exceeded, no water will be added until the mean value is acceptable again. If temperature is under 70°C no monitoring is done.



3846

QUICK COOL-DOWN	N
ACTION	N
END TEMP	55°C
READY	

3825

Y/N

Answer Yes (Y) or No (N).



Press .

Quick cool-down

If you answer **Yes (Y)**:

The machine will fill with cold water to a fixed higher level. The machine **does not** monitor the drop in temperature of the wash water. This function is used mainly for reducing the temperature of the water before it is discharged.

Do not use this function to prevent creasing of the wash load!

If you answer **No (N)**:

The machine makes a controlled cool-down as described earlier.

QUICK COOL-DOWN	N
ACTION	N
END TEMP	55°C
READY	

3843

-/G/N

Options:

- = Drum at standstill

G = Gentle action

N = Normal action



Press .

Drum action during cool-down

Allows you to determine drum action during cool-down. Options:

- = Drum at standstill

G = Gentle action

N = Normal action

QUICK COOL-DOWN	N
ACTION	N
END TEMP	55°C
READY	

3844



Use the numeric keys to enter the required value.

If wrong digits are given:

Press **ERASE**.

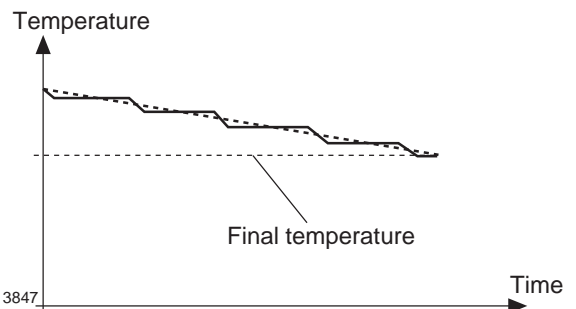


When ready

Press .

Final temperature

Enter the temperature you require for the water when cool-down has ended.



QUICK COOL-DOWN	N
ACTION	N
END TEMP	55°C
READY	

3845

SELECT

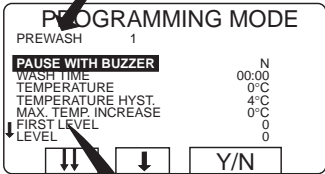
Once you have answered all the questions, highlight **READY**, then:

Press **SELECT** to exit the program module.

Program modules, Advanced mode

The Prewash, Main wash, Rinse, Soak, Advanced mode

PREWASH, MAIN WASH, RINSE or SOAK



To access this function, see chapter "To create and write an entirely new program".

3848

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0°C
TEMPERATURE HYST.	4°C
MAX. TEMP. INCREASE	0°C
FIRST LEVEL	0
LEVEL	0
LEVEL HYST.	20
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N
ACTION DURING WASH	N
SPEED DURING FILL. RPM	48
SPEED DURING HEAT. RPM	48
SPEED DURING WASH. RMP	48
ACCELERATION. RPM/SEC	20
COMPARTMENT 1	N
DETERGENT 1 TIME	0:00
COMPARTMENT 2	N
DETERGENT 2 TIME	0:00
COMPARTMENT 3	N
DETERGENT 3 TIME	0:00
COMPARTMENT 4	N
DETERGENT 4 TIME	0:00
COMPARTMENT 5	N
DETERGENT 5 TIME	0:00
WATER FLUSH C/H	C
LIQUIDE DETERGENT 1	0:00
LIQUIDE DETERGENT 2	0:00
LIQUIDE DETERGENT 3	0:00
LIQUIDE DETERGENT 4	0:00
LIQUIDE DETERGENT 5	0:00
LIQUIDE DETERGENT 6	0:00
LIQUIDE DETERGENT 7	0:00
LIQUIDE DETERGENT 8	0:00
LIQUIDE DETERGENT 9	0:00
LIQUIDE DETERGENT 10	0:00
LIQUIDE DETERGENT 11	0:00
LIQUIDE DETERGENT 12	0:00
LIQUIDE DETERGENT 13	0:00
DRAIN	N
EXIT	

Answer the various questions in the module. Press **↓** to move on to the next question.

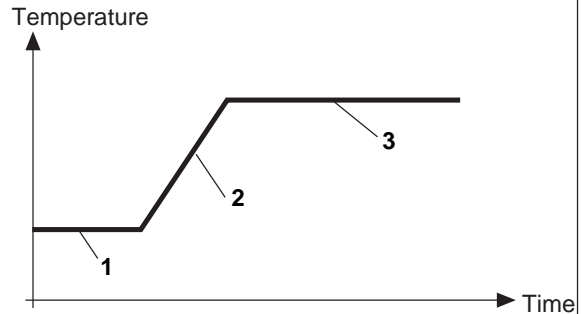
You can go back and change questions already answered by pressing **↑** repeatedly.

The module structure

The questions are identical for the Prewash, Main wash, Rinse and Rinse repeat modules.

Soak can be programmed for a longer time (up to 27 hours and 46 min.) Other modules are max 1 hour.

The module consists normally of three different parts:



3802

1 Water filling

The motor may be at a standstill, on gentle action or normal action. Detergent may be dispensed.

2 Water heating

The motor may be at a standstill, on gentle action or normal action.

If heating is not programmed the program advances to normal action.

3 Motor action at correct temperature and water level

The motor may be at a standstill, on gentle action or normal action. Temperature and water level are monitored and adjusted.

Usable default values

When you are programming a new program module, some of the questions will already have usable default values in place. These are the standard values which are used if you program in Standard mode.

You can naturally change these values, but they are there to provide an indication of settings which normally work well.

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0
TEMPERATURE HYST	4
MAX TEMP. INCREASE	0
FIRST LEVEL	0
FILL LEVEL	0
LEVEL HYST.	20
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N

Pause with buzzer

If you answer **Yes (Y)**:

The washer extractor will stop and the buzzer will sound before the program module starts. Turn off the buzzer by pressing the button with crossed buzzer-symbol. Start the program by pressing **START**.

If you answer **No (N)**:

The program module will start without pause or buzzer.

3849

Y/N

Answer Yes (Y) or No (N).



Press .

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0
TEMPERATURE HYST	4
MAX TEMP. INCREASE	0
FIRST LEVEL	0
FILL LEVEL	0
LEVEL HYST.	20
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N

Wash time

Prewash, Main wash and Rinse

The maximum wash time is 59 minutes and 59 seconds, in steps of 1 second.

Soak

The maximum wash time is 27 hours and 46 minutes, in steps of 1 minute.

Time taken for filling and heating water is not included in the programmed time.

3850



Use the numeric keys to enter the required value.

If wrong digits are given:

Press **ERASE**.



When ready

Press .

Program modules, advanced mode

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0
TEMPERATURE HYST	4
MAX TEMP. INCREASE	0
FIRST LEVEL	0
FILL LEVEL	0
LEVEL HYST.	20
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N

3851



Use the numeric keys to enter the required value.

If wrong digits are given: Press ERASE.



When ready Press .

Temperature
Choose a temperature between 0 - 98°C or 0 - 208°F (whole degrees, no decimals).

To change temperature scale °C/°F
You can change the temperature scale using the "SETTINGS" function, which is described in the Service Manual.

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0
TEMPERATURE HYST	4
MAX TEMP. INCREASE	0
FIRST LEVEL	0
FILL LEVEL	0
LEVEL HYST.	20
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N

3852



Use the numeric keys to enter the required value.

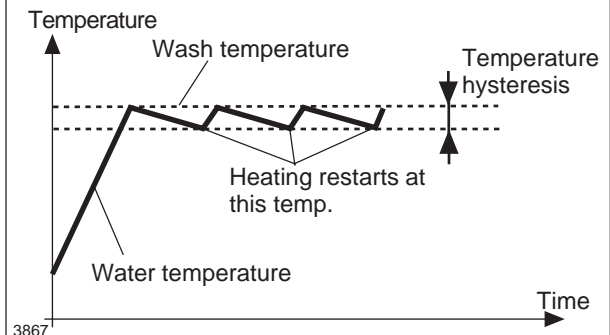
If wrong digits are given: Press ERASE.



When ready Press .

Temperature hysteresis
Once the drum has filled with water to the right level, it is heated to the wash temperature you have programmed. During the wash the water will cool down somewhat. When the water temperature has reached a lower limit (which you determine using this function), heating restarts and the water temperature is brought back up to the correct level.

Temperature hysteresis is the number of degrees between the wash temperature and the temperature at which heating needs to restart.



An example:

Wash temperature: 60°C

Temperature hysteresis: 4°C

The water is initially heated to 60°C. When the temperature has fallen to 56°C, heating restarts and the water temperature is brought back up to 60°C.

PAUSE WITH BUZZER	N
WASH TIME	00:00
TEMPERATURE	0
TEMPERATURE HYST	4
MAX TEMP. INCREASE	0
FIRST LEVEL	0
FILL LEVEL	0
LEVEL HYST.	20
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N

3853



Use the numeric keys to enter the required value.

If wrong digits are given:
Press ERASE.



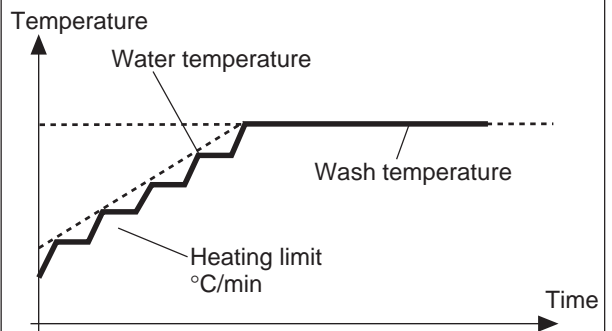
When ready
Press .

Maximum rate of temperature increase

This parameter, expressed in degrees per minute, is used to determine the rate at which the water may be heated to wash temperature.

An example:

Say you were to set this parameter to allow a maximum temperature increase rate of 3°C per minute. If we assume that the machine heats the water 3°C in 20 seconds, then heating would be switched off after 20 seconds and would remain off for 40 seconds. The same pattern would continue throughout the heating period, so that the average rate of temperature increase would never exceed 3°C per minute.



3868

If you program a too fast temperature increase which is too fast for the machine, the heating will be made without any interruptions.

If the value is set to 0 the function is not activated and the heating is done without any interruptions.

WASH TIME	00:00
TEMPERATURE	0
TEMPERATURE HYST	4
MAX TEMP. INCREASE	0
FIRST LEVEL	0
FILL LEVEL	0
LEVEL HYST.	20
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	

3854



Use the numeric keys to enter the required value.

If wrong digits are given:
Press ERASE.



When ready
Press .

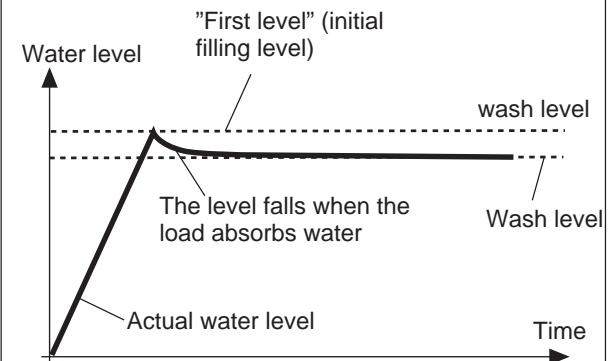
First level

For the relevant water level data, see the next function, "FILL LEVEL".

After water is first added to a drum containing a dry load, the level always falls slightly because the load absorbs water.

For this reason you are able to program a "first level" (i.e. the initial filling level) which is slightly higher than the level used during the rest of the wash, to avoid a situation where the water has to be topped up repeatedly during the first part of the wash.

If the parameter on this line is 0, this function will not be used. Instead the drum will fill to the "FILL LEVEL" set.



3869

TEMPERATURE	0
TEMPERATURE HYST	4
MAX TEMP. INCREASE	0
FIRST LEVEL	0
FILL LEVEL	0
LEVEL HYST.	20
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N

3855



Use the numeric keys to enter the required value.

If wrong digits are given:

Press ERASE.



When ready

Press  **.**

Fill level

Enter a water filling level from 0 - 255, whole numbers only.

The "Fill level" is measured in "scale units", which correspond to different water levels for different machines. Printed below is a conversion table for this machine.

FLE 125 FC - Conversion table, water level

Scale units	Quantity of water(litres)	Water level * (mm)	
98	15	28	
108	25	65	
113	30	84	low level
118	36	101	mid level
122	40	115	
126	45	131	
130	50	149	high level
134	55	165	
138	60	179	
142	65	194	
146	70	209	
150	75	223	
154	80	238	
158	85	250	
161	90	265	
165	95	280	
169	100	295	
173	105	308	
177	110	322	
180	115	336	
185	120	352	
189	125	366	
193	130	382	
197	135	395	
200	140	410	

* Distance above bottom of inner drum.

FLE 175 FC - Conversion table, water level

Scale units	Quantity of water(litres)	Water level * (mm)	
89	15	30	
95	20	48	
100	25	65	
106	30	83	
111	35	100	
116	40	117	low level
121	45	130	
125	50	145	
130	55	160	
134	60	175	
138	63	186	mid level
141	65	190	
145	70	205	
150	75	218	
153	80	230	
157	85	245	high level
162	90	258	
165	95	272	
168	100	285	
172	105	297	
174	110	310	
177	115	325	
180	120	335	
184	125	348	
188	130	362	
191	135	374	
194	140	385	
199	145	400	
202	150	411	
205	155	424	
210	160	438	
214	165	450	
218	170	464	
221	175	477	
225	180	490	
229	185	504	
233	190	520	
237	195	533	
241	200	546	
246	205	560	

* Distance above bottom of inner drum.

Program modules, advanced mode

FLE 225 FC - Conversion table, water level

Scale units	Quantity of water(litres)	Water level * (mm)
85	15	9
90	20	29
94	25	46
99	30	60
103	35	75
107	40	88
111	45	100
115	50	114 low level
119	55	125
123	60	138
127	65	150
130	70	161
134	75	173
138	80	186 mid level
141	85	196
144	90	205
147	95	217
150	100	229
154	105	241
155	107	246 high level
156	110	252
158	115	262
161	120	271
163	125	281
166	130	291
168	135	301
171	140	312
173	145	323
175	150	332
177	155	343
179	160	353
182	165	364
185	170	373
188	175	384
191	180	394
193	185	403
196	190	414
200	195	425
204	200	435
209	205	448
213	210	455
216	215	468
220	220	480
224	225	488
227	230	500
230	235	510
234	240	522
239	245	533
243	250	546

* Distance above bottom of inner drum.

FLE 400 FC, W3400H - Conversion table, water level

Scale units	Quantity of water(litres)	Water level * (mm)
61	30	31
70	40	53
76	50	75
85	65	103 low level, steam
91	75	121 low level, el
95	80	130
100	90	146
107	100	164
112	110	180
118	120	198
125	135	221 mid level
128	140	230
132	150	242 high level
137	160	258
142	170	270
147	180	285
150	190	296
157	200	315
160	210	325
165	220	342
170	230	352
176	240	372
178	230	382
185	260	400
188	270	412
194	280	427
197	290	438
203	300	453
208	310	465

* Distance above bottom of inner drum.

FL 335 MP - Conversion table, water level

Scale units	Quantity of water(litres)	Water level * (mm)	
60	10	6	safety level, steam
75	20	10	safety level, el. heated
81	25	33	
86	30	49	
91	35	64	
95	40	77	
99	45	90	
103	50	102	
107	55	114	
112	60	125	
115	65	135	low level
118	70	147	
121	75	158	
124	80	167	
127	85	177	
130	90	188	
134	95	198	
137	100	208	
140	105	217	
143	110	228	
146	115	237	
149	120	248	
152	125	258	mid level
155	130	267	
158	135	275	
160	140	284	
164	145	293	
166	150	302	
170	155	311	high level
172	160	319	
174	165	328	
178	170	336	
181	175	345	
184	180	354	
187	185	362	
189	190	371	
191	195	380	
194	200	388	
197	205	397	
200	210	404	
203	215	415	
206	220	422	
208	225	431	
211	230	441	
214	235	450	
217	240	456	
219	245	465	
222	250	474	
225	255	482	
228	260	492	

* Distance above bottom of inner drum.

FL 335 Clarus - Conversion table, water level

Scale units	Quantity of water(litres)	Water level * (mm)
0	0	0
52	5	0
60	10	6
66	15	32
71	20	47
77	25	63
81	30	76
85	35	89
89	40	100
93	45	110
96	50	123
100	55	135
103	60	145
107	65	155
110	70	165
114	75	175
117	80	185
120	85	195
123	90	204
126	95	214
130	100	223
133	105	234
136	110	243
138	115	251
141	120	260
145	125	270
148	130	280
150	135	289
153	140	298
156	145	305
159	150	316
162	155	325
164	160	334
167	165	343
170	170	350
173	175	360
176	180	368
179	185	377
181	190	385
184	195	394
187	200	402
190	205	410
193	210	418
196	215	430
199	220	440
201	225	447
204	230	455
207	235	464
210	240	473
213	245	481
215	250	490
218	255	498
	260	

* Distance above bottom of inner drum.

Program modules, advanced mode

EXSM 230 - Conversion table, water level

Scale units	Quantity of water(litres)	Water level * (mm)	
55	6	5	
60	10	26	
66	15	49	
72	20	67	
77	25	84	
82	30	100	
87	35	118	
92	40	135	
94	43	140	
96	45	146	
100	50	160	
104	55	174	
108	60	188	
110	62	195	low level
112	65	200	
116	70	214	
120	75	225	
124	80	240	
128	85	254	
132	90	265	
136	95	276	
139	100	290	
141	102	295	mid level
143	105	300	
146	110	310	
150	115	323	
153	120	335	
157	125	345	high level
160	130	357	
164	135	368	
167	140	380	
171	145	390	
174	150	400	
178	155	415	
181	160	425	
185	165	438	
188	170	448	
192	175	460	
195	180	471	
199	185	483	
203	190	495	
206	195	505	

* Distance above bottom of inner drum.

EXSM 350 Clarus - Conversion table, water level

Scale units	Quantity of water(litres)	Water level * (mm)	
61	20	5	
65	25	20	
69	30	30	
73	35	44	
77	40	55	
80	45	68	
84	50	80	
87	55	90	
90	60	100	
93	65	110	
96	70	120	
99	75	130	
102	80	141	
103	81	143	low level
105	85	151	
108	90	160	
111	95	170	
114	100	180	
117	105	190	
120	110	200	
123	115	209	
125	120	217	
128	125	225	
130	130	234	mid level
133	135	242	
136	140	251	
138	145	259	
141	150	268	
143	155	275	
146	160	281	
148	165	290	high level
151	170	299	
153	175	305	
155	180	315	
157	185	320	
160	190	330	
165	200	345	
170	210	360	
175	220	376	
179	230	391	
184	240	408	
189	250	421	
193	260	438	
198	270	455	
203	280	470	
208	290	485	
213	300	500	
217	310	512	
221	320	530	
226	330	545	
231	340	560	
236	350	576	

* Distance above bottom of inner drum.

FLE 850 MP - Conversion table, water level

Scale units	Quantity of water(litres)	Water level * (mm)
18	10	-
29	20	20
34	24	34
36	30	42
44	40	63
50	50	85
56	60	100
62	70	116
67	80	135
73	90	151
78	100	165
83	110	178
85	114	185
87	120	190
92	130	203
96	140	217
100	150	229
104	160	242
108	170	252
112	180	264
116	190	275
119	198	284
120	200	287
123	210	297
126	220	307
127	222	313
130	230	319
134	240	329
137	250	340
141	260	350
145	270	360
148	280	370
152	290	380
155	300	390
158	310	401
162	320	410
165	330	420
168	340	429
171	350	439
174	360	448
178	370	457
181	380	466
185	390	476
188	400	486
191	410	495
194	420	506
198	430	515
202	440	525
205	450	534
208	460	544
211	470	553
214	480	563

* Distance above bottom of inner drum.

Program modules, advanced mode

W365H/W465H - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
10	2.5	0	
16	5	25	
23	7.5	49	
24	8	52	low level
29	10	69	
30	10.5	72	mid level
31	11	76	
33	12	82	
34	12.5	85	
35	13	88	
36	13.4	91	high level
40	15	102	
45	17.4	118	
46	18	121	
48	19	127	
50	20	134	
54	22	146	
56	23	152	
61	26	167	
67	30	186	
79	35	223	
85**	37	233	
105	47.6	297	overflowing level

* Distance above bottom of inner drum.
** Max. programming level.

W375H/W475H, EX618 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
10	3	1	
15	5	22	
22	8.2	45	
24	9	52	low level
26	10	59	
30	12	71	mid level
31	12.5	75	
34	14	84	
36	15	90	high level
43	19	113	
46	21	125	
48	22	128	
54	25	144	
61	30	170	
70	35	195	
90**	47.1	255	
110	56	300	overflowing level

* Distance above bottom of inner drum.
** Max. programming level.

W375N/W475M - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
10	3	1	
15	5	22	
20	7.2	39	
24	9	52	
36	15	90	
38	16	97	
40	17.5	103	low level
47	21.5	126	mid level
48	22	128	
51	23.5	136	high level
54	25	144	
61	30	170	
66/62	30.5	172	
70	35	195	
80	41	125	
90**	47	255	
110	56	300	overflowing level

* Distance above bottom of inner drum.
** Max. programming level.

W385M/W485M, SU620cl - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
10	3.4	1	
14	5	17	
20	8	35	
22	8.8	41	low level
31	13.2	69	mid level
34	15	79	
35	15.5	82	high level
40	18	96	
46	22	113	
52	26	132	
58	30	151	
61	31.8	159	
70	38	186	
80	42.5	216	
87	50	238	
90**	52	255	
110	66	306	overflowing level

* Distance above bottom of inner drum.
 ** Max. programming level.

W385N, W620 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
11	3.4	1	
14	5	17	
20	8	35	
25	10	51	
40	18	96	low level
43	20	104	
47	22.6	116	mid level
50	25	126	
51	25.5	129	high level
58	30	151	
62	32.5	162	
66	35	174	
70	38	186	
73	40	195	
87	50	238	
90**	52	255	
110	66	306	overflowing level

* Distance above bottom of inner drum.
 ** Max. programming level.

Program modules, advanced mode

W3105H/W4105H, EX625 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
12	3.7	1	
15	5	15	
25	10	53	
26	10.6	56	
28	11.7	63	
29	12.2	66	
30	12.8	69	
32	13.9	76	
34	15	83	low level
38	17.5	97	
41	19.4	107	mid level
42	20	110	
46	22.2	121	
47	22.8	124	high level
50	24.5	132	
54	27	144	
59	30	158	
60	30.7	161	
63	32.8	171	
66	35	181	
72	39.3	202	
88	50	251	
98**	56.5	275	
118	71	345	overfilling level

* Distance above bottom of inner drum.

** Max. programming level.

W3105N - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
12	3.7	1	
16	5	15	
20	7	30	
26	10	52	
43	20	107	
47	22.6	119	low level
51	25.1	132	
54	27	141	
57	28.8	150	mid level
62	32.1	165	high level
66	35	178	
69	37	186	
75	40.7	204	
88	50	245	
98**	56	270	
118	71	336	overfilling level

* Distance above bottom of inner drum.

** Max. programming level.

W3105M/W4105M - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
12	3.7	1	
16	5	15	
20	7	30	
26	10	52	
32	13.5	73	low level
42	19.5	104	mid level
47	22	117	high level
51	25.1	132	
54	27	141	
57	28.8	150	
62	32.1	165	
66	35	178	
69	37	186	
75	40.7	204	
88	50	245	
98**	56	270	
118	71	336	overfilling level

* Distance above bottom of inner drum.

** Max. programming level.

W3130H/W4130H, WB4130H, EX630 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
14	4.9	1	
24	10	40	
31	14	62	
33	15	68	
35	16	73	
36	17	78	
38	18.5	85	low level
40	20	92	
44	23	105	
45	23.5	108	
46	24	111	mid level
47	25	114	
50	27.5	125	
52	30	130	high level
55	31.2	140	
60	35	156	
62	37	163	
66	40	175	
70	42.5	185	
80	50	214	
92	60	252	
105	70	289	
117	79.6	324	
134**	93	375	
154	110	436	overflowing level

* Distance above bottom of inner drum.

** Max. programming level.

W3130M/W4130M, SU630cl - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
14	4.3	1	
20	8	26	
24	10	39	
32	14.5	61	low level
39	20	85	
42	22.1	94	mid level
46	25	105	high level
52	30	124	
57	34	139	
62	38.3	154	
64	40	160	
69	44	175	
76	50	196	
87	60	231	
98**	70	264	
118	89	325	overflowing level

* Distance above bottom of inner drum.

** Max. programming level.

W3130N, W630 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
13	4.3	1	
20	8	26	
33	15	64	
39	20	85	
47	25.8	108	low level
52	30	124	
57	34	139	mid level
62	38.3	154	high level
63	39.2	157	
64	40	160	
69	44	175	
75	49.2	193	
76	50	196	
87	60	231	
98**	70	264	
118	89	325	overflowing level

* Distance above bottom of inner drum.

** Max. programming level.

Program modules, advanced mode

W3180H/W4180H, WB4180H, EX640 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
14	6	4	safety level
36	20	76	
40	23	88	
49	31	118	
50	32	127	
51	32.9	129	low level
57	38	142	
59	40	149	
62	43	159	
66	47	172	mid level
78	58	208	high level
85	65	231	
86	66	235	
88	68	241	
152**	131	440	
172	150	490	overflowing level

* Distance above bottom of inner drum.

** Max. programming level.

W3180M/W4180M, SU640 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
12	5.5	1	
14	6.5	7	
18	10	28	
32	20	71	
40	26.7	95	low level
44	30	106	
47	33	115	mid level
51	37	128	high level
56	42	143	
64	50	167	
73	60	196	
78	65	210	
83	70	225	
92	80	254	
101	90	281	
110	100	308	
134**	127	380	
154	146	433	overflowing level

* Distance above bottom of inner drum.

** Max. programming level.

W3180N, W640 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
12	5.5	1	
18	10	28	
20	11.5	34	
32	20	71	
44	30	106	
50	36	125	low level
54	40	137	
62	48	161	mid level
66	52	173	
77	64	207	high level
78	65	210	
83	70	225	
93/88	75	241	
92	80	254	
101	90	281	
110	100	308	
134**	127	380	
154	146	433	overflowing level

* Distance above bottom of inner drum.

** Max. programming level.

W3240H/W4240H, EX655 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
17	7.5	1	safety level
40	26	80	
46	31.5	98	
57	43	135	low level
65	51	157	
77	65	195	
80	70	205	mid level
87	78	228	high level
97	78	228	
98	92	285	
120**	117	330	
140	140	385	overflowing level

* Distance above bottom of inner drum.
** Max. programming level.

W3300H/W4300H, EX670 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
11	7.7	1	
17	12.7	22	safety level
43	40	101	
54	54.3	136	
61	58.5	146	low level
73	80.8	191	
80	90.2	213	mid level
87	103	235	high level
105	123	274	
120**	154	330	
140	188	385	overflowing level

* Distance above bottom of inner drum.
** Max. programming level.

W3250M/W4250M, SU655 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
12	6.5	1	
17	11	23	
39	30	89	
48	40	117	
50	42.5	123	low level
56	50	142	
62	57.8	161	mid level
64	60	166	
66	62.5	172	
77	76.2	205	high level
80	80	214	
86	88	232	
88	90.8	238	
91	94.8	247	
97	103	265	
123	140	346	
152**	179	435	
172	206.6	483	overflowing level

* Distance above bottom of inner drum.
** Max. programming level.

W3250N, W655 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
12	6.5	1	
17	11	23	
20	13.5	32	
39	30	89	
56	50	142	
60	55.2	154	low level
62	57.8	161	
64	60	166	
80	80	214	mid level
81	81.3	217	
86	88	232	high level
95	100	259	
100	107.5	274	
102	111	280	
109	120	303	
123	140	346	
129	148	363	
152**	179	435	
172	206.6	483	overflowing level

* Distance above bottom of inner drum.
** Max. programming level.

Program modules, advanced mode

W3330M/W4330M, SU675 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
14	8.2	1	
16	10	9	
20	13.5	22	
27	20	44	
44	40	97	
57	60	141	low level
60	64.5	150	
64	70	162	
73	86	193	
80	98	217	mid level
81	100	220	
86	108.5	235	high level
93	120	257	
98	128	272	
102	135	285	
117	160	329	
138	199	397	
161**	240	470	
181	275	530	overfilling level

* Distance above bottom of inner drum.

** Max. programming level.

W3330N, W675 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
14	8.2	1	
16	10	9	
20	13.5	22	
36	30	73	
44	40	97	
60	64.5	150	low level
73	86	193	
75	89.5	200	
80	98	217	mid level
81	100	220	
86	108.5	235	high level
93	120	257	
98	128	272	
100	131.5	278	
105	140	294	
117	160	329	
138	199	397	
161**	240	470	
181	275	530	overfilling level

* Distance above bottom of inner drum.

** Max. programming level.

W3600X/W4600X, EXSM 6135 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
7	13	1	
16	26	26	
24	40.5	55	
35	60	90	
46	80	121	
50	90	136	
55	100	151	low level
61	113	169	
64	120	180	
82	160	234	mid level
88	175	253	
91	182	262	
97	194	279	
106	220	309	
162	360	474	
170**	380	500	
190	430	560	overfilling level

* Distance above bottom of inner drum.

** Max. programming level.

W3600H/W4600H, EX6135 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
52	20	21	
68	46	73	
76	60	95	
86	80	126	
94	96	149	low level
96	100	155	
119	150	224	
123	160	236	mid level
131	180	261	high level
139	200	287	
160	250	345	
180**	305	406	
200	360	467	overfilling level

* Distance above bottom of inner drum.

** Max. programming level.

W3850H/W4850H, EX6200 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
30	13.8	5	
43	32	52	
53	49.5	85	
71	81.2	137	
92	126	200	
102	151	233	low level
113	177	263	
122	201	291	
140	248	344	mid level
150	275	375	high level
159	302	403	
177	353	458	
180**	365	460	
200	428	530	overfilling level

* Distance above bottom of inner drum.
** Max. programming level.

W31100H/W41100H, EX6250 - Conversion table, water level

Scale units	Quantity of water (litres)	Water level* (mm)	
25	15.1	5	
38	33.8	45	
62	84.2	117	
91	159.7	203	low level
112	226.7	264	
125	268.2	303	mid level
132	290.5	324	high level
158	381	402	
180**	455	460	
200	530	530	overfilling level

* Distance above bottom of inner drum.
** Max. programming level.

TEMPERATURE HYST.	4
MAX TEMP. INCREASE	0
FIRST LEVEL	0
FILL LEVEL	0
LEVEL HYST.	20
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N

3856



Use the numeric keys to enter the required value.

If wrong digits are given:
Press ERASE.

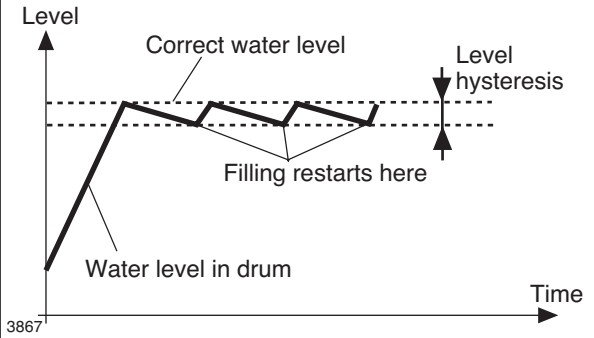
When ready
Press **.**

Level hysteresis

Once the drum has filled with water, the water level is monitored during both heating and washing.

If the water level falls below a certain level (which you determine using this function), more water will be added to achieve the correct level.

Level hysteresis is the number of "scale units" between the current water level set and the level at which filling (topping up) restarts.



An example (levels expressed in "scale units"):

Water level: 150

Water hysteresis: 20

The drum is initially filled to level 150. If the level falls below 130, filling restarts to bring the level back to 150.

The hysteresis value can be programmed from 0 to 255, in increments of 1.

MAX TEMP. INCREASE	0
FIRST LEVEL	0
FILL LEVEL	0
LEVEL HYST.	20
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N

3857

Cold water

If you answer **Yes (Y)**:
The drum will fill with cold water until the correct water level is reached.

If you answer **No (N)**:
No cold water filling.

Answer Yes (Y) or No (N).

Press .

FIRST LEVEL	0
FILL LEVEL	0
LEVEL HYST.	20
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N
ACTION DURING WASH	N

3858

Hot water

If you answer **Yes (Y)**:
The drum will fill with hot water until the correct water level is reached.

If only hot water valve is open and the water temperature is higher than the programmed, the cold water valve will automatically open to adjust the temperature.

If you answer **No (N)**:
No hot water filling.

Answer Yes (Y) or No (N).

Press .

FILL LEVEL	0
LEVEL HYST.	20
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N
ACTION DURING WASH	N
SPEED DURING FILL. RPM	48

3866

Cold and hot water - correct temperature on intake

If you answer **Yes (Y)** to both of these questions, both the cold water and the hot water valves will open when the machine is filling. If the set temperature limit is exceeded, the hot water valve will be closed. When the temperature has fallen 4°C below the set temperature limit, the hot water valve will open again.

In this way you can achieve the correct water temperature even in an unheated washer extractor.

Note, however, that the water valves will close when the correct water level is reached, regardless of whether the correct temperature has been reached.

FILL LEVEL	0
LEVEL HYST.	20
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N
ACTION DURING WASH	N
SPEED DURING FILL.RPM	48

3859

Y/N



Only machines with hard water connection.

Cold hard water

If you answer **Yes (Y)**:
The drum will fill with cold hard water until the correct water level is reached.

If you answer **No (N)**:
Cold hard water will not be added.

Answer Yes (Y) or No (N).

Press **.**

LEVEL HYST.	20
COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N
ACTION DURING WASH	N
SPEED DURING FILL.RPM	48
SPEED DURING HEAT.RPM	48

Applies only to certain machines.

Water from tank

If you answer **Yes (Y)**:

The drum will be filled from the specified tank (e.g. a tank for reuse of water or a special laundry product).

If you answer **No (N)**:

No filling from these sources.

3860

Y/N

Answer Yes (Y) or No (N).



Press .

COLD WATER	N
HOT WATER	N
COLD HARD WATER	N
WATER FROM TANK 1	N
WATER FROM TANK 2	N
WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N
ACTION DURING WASH	N
SPEED DURING FILL RPM	48
SPEED DURING HEAT RPM	48
SPEED DURING WASH RPM	48

Options:

- = Drum at standstill

G = Gentle action

N = Normal action

3861

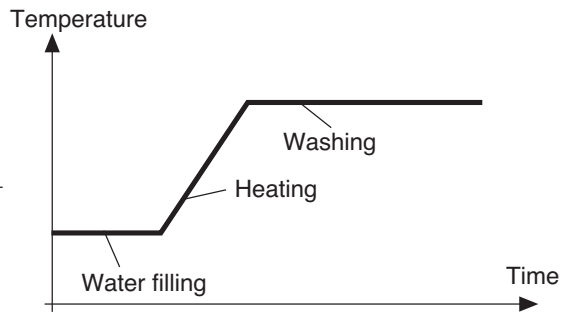
Y/N



Press .

Drum action at different stages

The program module consists of three different stages:



During each of these stages you can determine whether the drum is to be at a standstill, on gentle action or normal action.

Options for each question:

- = Drum at standstill

G = Gentle action

N = Normal action

You can set the drum action "on-times" and "off-times" for gentle action and normal action when using "Insert Main Data, Advanced mode", see section "Main data, advanced".

WATER FROM TANK 3	N
ACTION DURING FILL	N
ACTION DURING HEAT	N
ACTION DURING WASH	N
SPEED DURING FILL. RPM	48
SPEED DURING HEAT. RPM	48
SPEED DURING WASH. RPM	48
ACCELERATION. RPM/SEC	20
COMPARTMENT 1	N
DETERGENT 1 TIME	0:00
COMPARTMENT 2	N

3862



Only for machines with frequency controlled motor.

Use the numeric keys to enter the required value.

If wrong digits are given: Press **ERASE**.

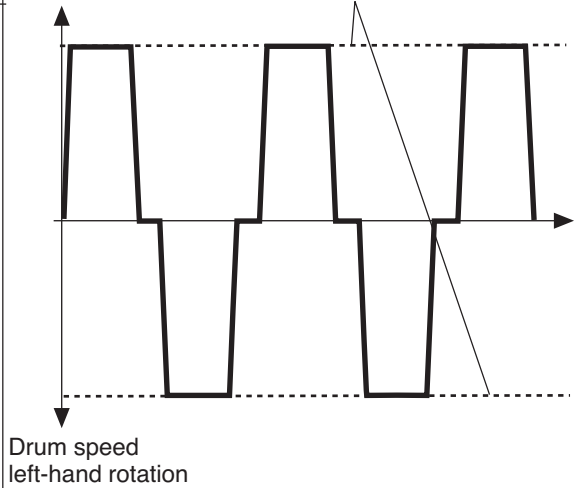
When ready

Press .

Individual drum speeds for various stages

The program module consists of three different stages: water filling, heating and washing. You can determine the drum speed individually for each of these stages.

Drum speed right-hand rotation This function allows you to set this level (the same for both right-hand and left-hand rotation)



ACTION DURING WASH	N
SPEED DURING FILL. RPM	48
SPEED DURING HEAT. RPM	48
SPEED DURING WASH. RPM	48
ACCELERATION. RPM/SEC	20
COMPARTMENT 1	N
DETERGENT 1 TIME	0:00
COMPARTMENT 2	N
DETERGENT 2 TIME	0:00
COMPARTMENT 3	N
DETERGENT 3 TIME	0:00

3863



Only for machines with frequency controlled motor.

Use the numeric keys to enter the required value.

If wrong digits are given: Press **ERASE**.

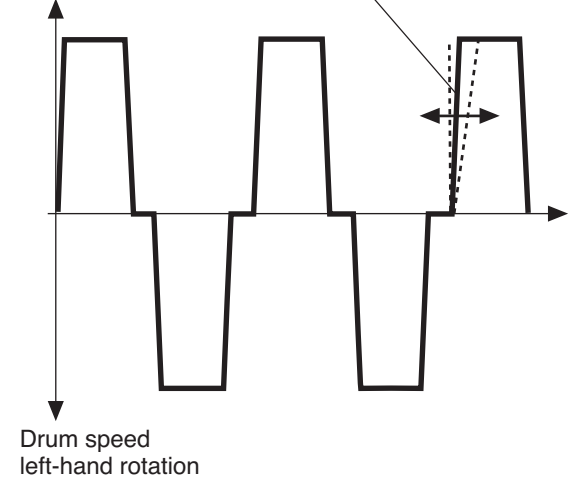
When ready

Press .

Acceleration rate

This function allows you to determine the rate of acceleration for the drum, i.e. the rpm per second at which its speed should increase until it reaches the speed(s) you set in the function above. This setting will apply to both normal action and gentle action.

Drum speed right-hand rotation In this function you determine how steep this part of the curve will be.



ACCELERATION. RPM/SEC	20
COMPARTMENT 1	N
DETERGENT 1 TIME	0:00
COMPARTMENT 2	N
DETERGENT 2 TIME	0:00
COMPARTMENT 3	N
DETERGENT 3 TIME	0:00
COMPARTMENT 4	N
DETERGENT 4 TIME	0:00
COMPARTMENT 5	N
DETERGENT 5 TIME	0:00

3864

Y/N

Answer Yes (Y) or No (N).



Press .

Water for flushing detergent compartment

Every time detergent is supplied from a detergent compartment, the compartment is flushed out to remove residues of detergent. Here you can specify if the compartment is to be flushed clean using cold or hot water.

ACCELERATION. RPM/SEC	20
COMPARTMENT 1	N
DETERGENT 1 TIME	0:00
COMPARTMENT 2	N
DETERGENT 2 TIME	0:00
COMPARTMENT 3	N
DETERGENT 3 TIME	0:00
COMPARTMENT 4	N
DETERGENT 4 TIME	0:00
COMPARTMENT 5	N
DETERGENT 5 TIME	0:00

4831

1	2	3
4	5	6
7	8	9
	0	



Detergent dispensing in machines with detergent compartments

Here you can determine the length of time water will be flushed through each individual compartment.

COMPARTMENT 2	N
DETERGENT 2 TIME	0:00
COMPARTMENT 3	N
DETERGENT 3 TIME	0:00
COMPARTMENT 4	N
DETERGENT 4 TIME	0:00
COMPARTMENT 5	N
DETERGENT 5 TIME	0:00
WATER FLUSH C/H	C
LIQUIDE DETERGENT 1	0:00
LIQUIDE DETERGENT 2	0:00

4213

C/H



Water for flushing detergent compartment
 Every time detergent is supplied from a detergent compartment, the compartment is flushed through to remove residues of detergent. Here you can specify if the compartment is to be flushed clean using cold or hot water.

WATER FLUSH C/H	C
LIQUIDE DETERGENT 1	0:00
LIQUIDE DETERGENT 2	0:00
LIQUIDE DETERGENT 3	0:00
LIQUIDE DETERGENT 4	0:00
LIQUIDE DETERGENT 5	0:00
LIQUIDE DETERGENT 6	0:00
LIQUIDE DETERGENT 7	0:00
LIQUIDE DETERGENT 8	0:00
LIQUIDE DETERGENT 9	0:00
LIQUIDE DETERGENT 10	0:00
LIQUIDE DETERGENT 11	0:00
LIQUIDE DETERGENT 12	0:00
LIQUIDE DETERGENT 13	0:00
DRAIN	N
EXIT	N

3805



Use the numeric keys to enter the required value.

If wrong digits are given:
Press ERASE.

When ready
Press .

Dispensing liquid detergent from external system
 For machines with an external detergent supply system there are ten control signals which can open external supply valves for a specified time. The valves open for the time set, starting from when the drum has stopped filling. The maximum time is 4 minutes and 10 seconds, in increments of 1 second. The supply lines are flushed clean automatically.

LIQUIDE DETERGENT 2	0:00
LIQUIDE DETERGENT 3	0:00
LIQUIDE DETERGENT 4	0:00
LIQUIDE DETERGENT 5	0:00
LIQUIDE DETERGENT 6	0:00
LIQUIDE DETERGENT 7	0:00
LIQUIDE DETERGENT 8	0:00
LIQUIDE DETERGENT 9	0:00
LIQUIDE DETERGENT 10	0:00
LIQUIDE DETERGENT 11	0:00
LIQUIDE DETERGENT 12	0:00
LIQUIDE DETERGENT 13	0:00
DRAIN	N
EXIT	

4082

Y/N

Answer Yes (Y) or No (N).



Press .

Drain

A streamlined means of programming the drain stage. If you require times and settings different from those listed below you must answer **No (N)**, then program a separate drain module immediately after this module, see the section "Drain, advanced mode".

If you answer **Yes (Y)**:

The program module will end with a drain sequence with these settings:

No pause before drain.

Drain plus normal speed 50 sec.

Distribution time 40 sec.

(These times are default values, but can be altered through the function SETTINGS 2, see service manual.)

If you answer **No (N)**:

No drain.

LIQUIDE DETERGENT 1	0:00
LIQUIDE DETERGENT 2	0:00
LIQUIDE DETERGENT 3	0:00
LIQUIDE DETERGENT 4	0:00
LIQUIDE DETERGENT 5	0:00
LIQUIDE DETERGENT 6	0:00
LIQUIDE DETERGENT 7	0:00
LIQUIDE DETERGENT 8	0:00
LIQUIDE DETERGENT 9	0:00
LIQUIDE DETERGENT 10	0:00
LIQUIDE DETERGENT 11	0:00
LIQUIDE DETERGENT 12	0:00
LIQUIDE DETERGENT 13	0:00
DRAIN	N
READY	

3919

SELECT

Once you have answered all the questions, highlight READY, then:

Press **SELECT** to exit the program module.

Drain, Advanced

PROGRAMMING MODE	
DRAIN	1
PAUSE BEFORE DRAIN	N
MOTOR ACTION	N
DRAIN A	N
DRAIN B	N
DRAIN C	N
DRAIN D	N

* ↓ Y/N

3872

PAUSE BEFORE DRAIN		N
MOTOR ACTION		N
DRAIN A		N
DRAIN B		N
DRAIN C		N
DRAIN D		N
DRAIN TIME	0:50	
DISTRIBUTION TIME	0:40	
SPEED DURING DRAIN.RPM	48	
ACC. DURING DRAIN.RPM/SEC	20	
READY		

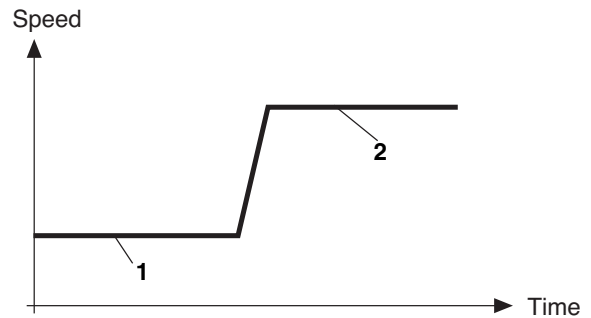
To access this function, see chapter "To create and write an entirely new program".

Answer the various questions in the module. Press **↓** to move on to the next question.

You can go back and change questions already answered by pressing **↑** repeatedly.

The module structure

Drain module can consist of part 1 or 2, or both 1 and 2 depending on how one wants the program:



1 Drain time

The drain will be open. The motor may be at a standstill, on gentle action or normal action. During this time the drum water will be discharged. If this time is set to 0 the drain module will only consist of distribution time.

2 Distribution time

The drain will be open. The motor runs at distribution speed. During this time the wash load will be distributed evenly around the walls of the inner drum.

If this time is set to 0 the drain module will only consist of draining time.

Usable default values

When you are programming a new program module, some of the questions will already have usable default values in place. These are the standard values which are used if you program in Standard mode.

You can naturally change these values, but they are there to provide an indication of settings which normally work well.

PAUSE BEFORE DRAIN	N
MOTOR ACTION	N
DRAIN A	N
DRAIN B	N
DRAIN C	N
DRAIN D	N
DRAIN TIME	0:50
DISTRIBUTION TIME	0:40
SPEED DURING DRAIN.RPM	48
ACC. DURING DRAIN.RPM/SEC	20
READY	

3873

Y/N



Answer Yes (Y) or No (N).

Press .

Pause before drain

If you answer **Yes (Y)**:
The washer extractor will stop and the buzzer will sound before the drain opens.
Turn off the buzzer by pressing the button with crossed buzzer-symbol. Start the program by pressing **START**.

If you answer **No (N)**:
The program module starts, with no pause.

PAUSE BEFORE DRAIN	N
MOTOR ACTION	N
DRAIN A	N
DRAIN B	N
DRAIN C	N
DRAIN D	N
DRAIN TIME	0:50
DISTRIBUTION TIME	0:40
SPEED DURING DRAIN.RPM	48
ACC. DURING DRAIN.RPM/SEC	20
READY	

3874

-/G/N

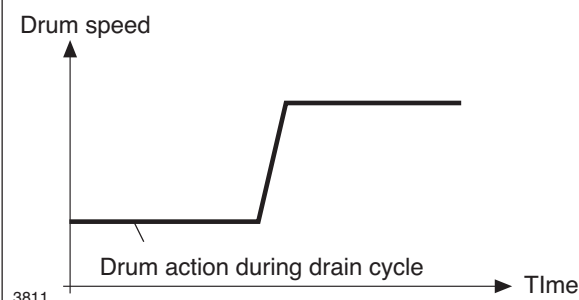


Options:
- = Drum at standstill
G = Gentle action
N = Normal action

Press .

Drum action during drain cycle

Here you can determine the drum action during the time programmed for the drain cycle:



3811

Options:
- = Drum at standstill
G = Gentle action
N = Normal action

PAUSE BEFORE DRAIN	N
MOTOR ACTION	N
DRAIN A	N
DRAIN B	N
DRAIN C	N
DRAIN D	N
DRAIN TIME	0:50
DISTRIBUTION TIME	0:40
SPEED DURING DRAIN.RPM	48
ACC. DURING DRAIN.RPM/SEC	20
READY	

4225

Y/N

Answer Yes (Y) or No (N).



Press .

Choose drain valve

If the machine has two drain valves (for example to allow water to be reused during some wash sequences) here you can specify which drain valve is to open.

If you answer **Yes (Y)**:

The machine's normal drain will remain closed during the drain sequence. The drain valve for water recovery will open instead.

If you answer **No (N)**:

The machine's normal drain will open during the drain sequence. The drain valve for water recovery will remain closed.

PAUSE BEFORE DRAIN	N
MOTOR ACTION	N
DRAIN A	N
DRAIN B	N
DRAIN C	N
DRAIN D	N
DRAIN TIME	0:50
DISTRIBUTION TIME	0:40
SPEED DURING DRAIN.RPM	48
ACC. DURING DRAIN.RPM/SEC	20
READY	

4226

Y/N

Answer Yes (Y) or No (N).



Press .

Extra drain valves

Here you can control a further three drain valves in addition to the two in the previous function. These drain valves will open and close without affecting the two drains in the previous function.

If you answer **Yes (Y)**:

The specified drain will open throughout the drain sequence.

If you answer **No (N)**:

The drain will remain closed.

PAUSE BEFORE DRAIN	N
MOTOR ACTION	N
DRAIN A	N
DRAIN B	N
DRAIN C	N
DRAIN D	N
DRAIN TIME	0:50
DISTRIBUTION TIME	0:40
SPEED DURING DRAIN. RPM	48
ACC. DURING DRAIN. RPM/SEC	20
READY	

3875



Use the numeric keys to enter the required value.

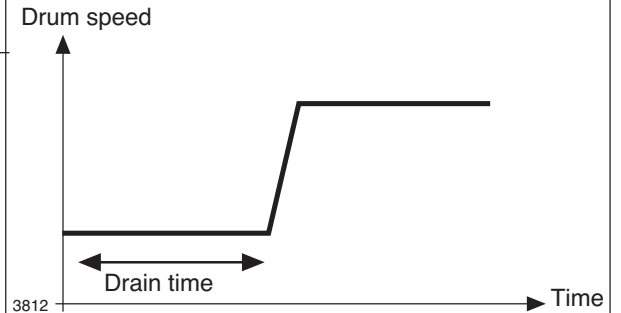
If wrong digits are given:
Press ERASE.



When ready
Press .

Drain time

Here you can determine the drain time:



3812

The maximum time is 42 minutes and 30 seconds, in increments of 10 seconds.

PAUSE BEFORE DRAIN	N
MOTOR ACTION	N
DRAIN A	N
DRAIN B	N
DRAIN C	N
DRAIN D	N
DRAIN TIME	0:50
DISTRIBUTION TIME	0:40
SPEED DURING DRAIN. RPM	48
ACC. DURING DRAIN. RPM/SEC	20
READY	

3876



Use the numeric keys to enter the required value.

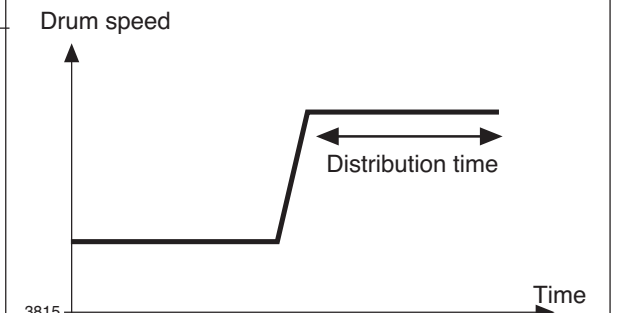
If wrong digits are given:
Press ERASE.



When ready
Press .

Distribution time

Here you can determine the length of time the drum operates at distribution speed:



3815

The maximum time is 42 minutes and 30 seconds, in increments of 10 seconds.

PAUSE BEFORE DRAIN	N
MOTOR ACTION	N
DRAIN A	N
DRAIN B	N
DRAIN C	N
DRAIN D	N
DRAIN TIME	0:50
DISTRIBUTION TIME	0:40
SPEED DURING DRAIN.RPM	48
ACC. DURING DRAIN.RPM/SEC	20
READY	

3877

Only for machines with frequency controlled motor.

Use the numeric keys to enter the required value.

If wrong digits are given:
Press ERASE.

When ready
Press .

Drum speed during drain

This function allows you to determine drum speed during the drain stage. The speed will apply to both normal action and gentle action.

This function allows you to set this level (the same for both right-hand and left-hand rotation)

PAUSE BEFORE DRAIN	N
MOTOR ACTION	N
DRAIN A	N
DRAIN B	N
DRAIN C	N
DRAIN D	N
DRAIN TIME	0:50
DISTRIBUTION TIME	0:40
SPEED DURING DRAIN.RPM	48
ACC. DURING DRAIN.RPM/SEC	20
READY	

3878

Only for machines with frequency controlled motor.

Use the numeric keys to enter the required value.

If wrong digits are given:
Press ERASE.

When ready
Press .

Acceleration rate during drain

This function allows you to determine the rate of acceleration for the drum, i.e. the rpm per second at which its speed should increase until it reaches the speed(s) you set in the last function. This setting will apply to both normal action and gentle action.

In this function you determine how steep this part of the curve will be.

PAUSE BEFORE DRAIN	N
MOTOR ACTION	N
DRAIN A	N
DRAIN B	N
DRAIN C	N
DRAIN D	N
DRAIN TIME	0:50
DISTRIBUTION TIME	0:40
SPEED DURING DRAIN.RPM	48
ACC. DURING DRAIN.RPM/SEC	20
READY	

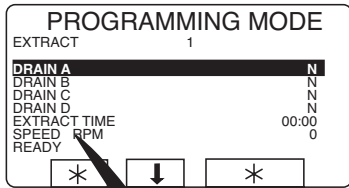
3879

SELECT

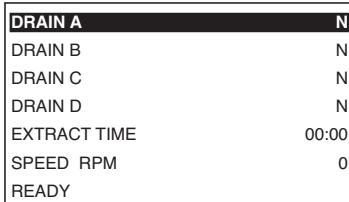
Once you have answered all the questions, highlight **READY**, then:

Press SELECT to exit the program module.

Extraction, Advanced mode



4662



To access this function, see chapter "To create and write an entirely new program".

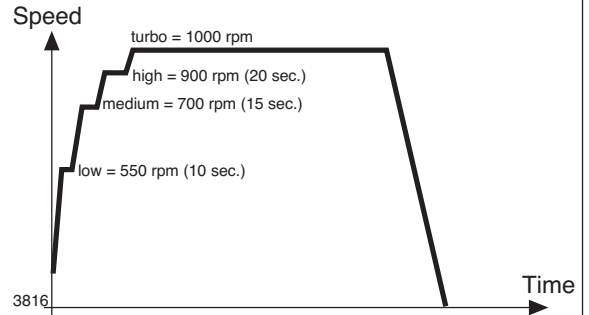
Answer the various questions in the module. Press **↓** to move on to the next question.

You can go back and change questions already answered by pressing **↑** repeatedly.

The module structure

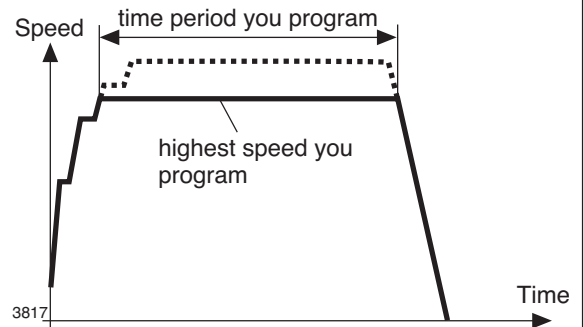
For machines with frequency-controlled motors:

The extraction time module consists of a single extraction period, for which you can determine extraction time and speed. The machine does not accelerate to its highest speed immediately, however. Instead it accelerates in several steps, because some of the water needs to be extracted at lower speeds. Shown below are the standard values the machine has when delivered:

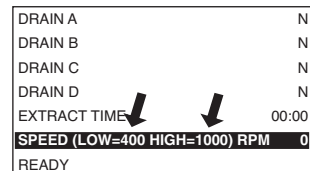


If you program a low (maximum) extraction speed, the number of acceleration steps at the beginning of extraction may be reduced.

The time you program is the period the machine will run at its highest speed.



For machines without frequency-controlled motors you must choose one of the extraction speed options shown on the display.



4669

DRAIN A	N
DRAIN B	N
DRAIN C	N
DRAIN D	N
EXTRACT TIME	00:00
DISTRIBUTION TIME	00:40
SPEED RPM	0
READY	

4664

Y/N

Answer Yes (Y) or No (N).



Press .

Choose drain valve

If the machine has two drain valves (for example to allow water to be reused during some wash sequences) here you can specify which drain valve is to open.

If you answer **Yes (Y)**:

The machine's normal drain will remain closed during the drain sequence. The drain valve for water recovery will open instead.

If you answer **No (N)**:

The machine's normal drain will open during the drain sequence. The drain valve for water recovery will remain closed.

DRAIN A	N
DRAIN B	N
DRAIN C	N
DRAIN D	N
EXTRACT TIME	00:00
SPEED RPM	0
READY	

4665

Y/N

Answer Yes (Y) or No (N).



Press .

Extra drain valves

Here you can control a further three drain valves in addition to the two in the previous function. These drain valves will open and close without affecting the two drains in the previous function.

If you answer **Yes (Y)**:

The specified drain will open throughout the drain sequence.

If you answer **No (N)**:

The drain will remain closed.

DRAIN A	N
DRAIN B	N
DRAIN C	N
DRAIN D	N
EXTRACT TIME	00:00
SPEED RPM	0
READY	

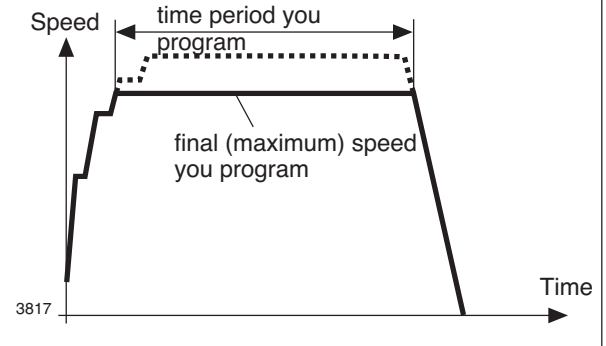
4666

1 2 3 **Use the numeric keys to enter the required value.**
4 5 6
7 8 9 **If wrong digits are given:**
0 **Press ERASE.**

↓ **When ready**
Press ↓.

Extraction time

The maximum extraction time is 59 minutes and 59 seconds, in increments of 1 second. The period during which the drum is reaching its correct speed is not included in the "extraction time".



DRAIN A	N
DRAIN B	N
DRAIN C	N
DRAIN D	N
EXTRACT TIME	00:00
SPEED RPM	0
READY	

4667

1 2 3 **Use the numeric keys to enter the required value.**
4 5 6
7 8 9 **If wrong digits are given:**
0 **Press ERASE.**

↓ **When ready**
Press ↓.

Extraction speed

For machines with frequency-controlled motors:

Enter the extraction speed you require. The maximum speed varies from one machine to another.

If you enter a value which is too high, the value will be changed to the maximum allowed when you press ↓.

For machines without frequency-controlled motors:

If the machine does not have a frequency-controlled motor, the available extraction speed options will be shown on the display.

DRAIN A	N
DRAIN B	N
DRAIN C	N
DRAIN D	N
EXTRACT TIME	00:00
SPEED (LOW=400 HIGH=1000) RPM	0
READY	

4669

Enter one of these values. **Note that no other values are allowed.**

DRAIN A	N
DRAIN B	N
DRAIN C	N
DRAIN D	N
EXTRACT TIME	00:00
SPEED RPM	0
READY	

4668

Once you have finished:

Check that READY is highlighted.

Press SELECT to exit the program module.

Cool-down, Advanced mode

PROGRAMMING MODE	
COOL-DOWN	1
QUICK COOL-DOWN	N
MOTOR ACTION	N
VALVE ON TIME 100-70° C IN SEC.	3
VALVE ON TIME 70°-END IN SEC.	5
END TEMP	55°C
SPEED.RPM	48
ACCELERATION.RPM/SEC	20
* ↓ Y/N	

3880

QUICK COOL-DOWN	
MOTOR ACTION	N
VALVE ON TIME 100-70° C IN SEC.	3
VALVE ON TIME 70°-END IN SEC.	5
END TEMP	55°C
SPEED.RPM	48
ACCELERATION.RPM/SEC	20
READY	

To access this function, see chapter "To create and write an entirely new program".

Answer the various questions in the module. Press **↓** to move on to the next question.

You can go back and change questions already answered by pressing **↑** repeatedly.

The module structure

The cool-down module is used to achieve controlled cooling of the wash water. This helps prevent creasing of the wash load.

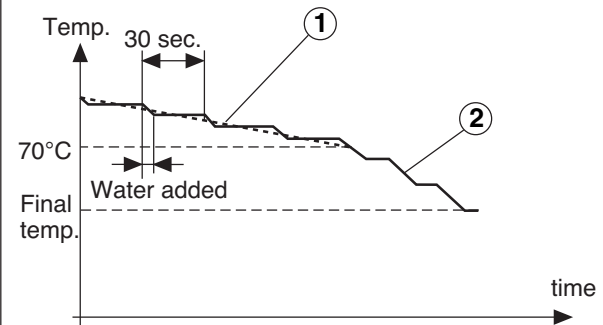
During the cool-down sequence cold water is added for a brief period at 30 second intervals. The sequence is divided into two distinct sections:

1 98° - 70°C.

You program the length of time during which the cold water valve opens every 30seconds, but the machine monitors constantly to ensure that the cool-down rate does not exceed the limit value, which is 4°C/minute when the machine is delivered. If the limit value is exceeded, no water will be added until the mean value is acceptable again.

2 70°C - final temperature

You program the length of time during which the cold water valve opens every 30 seconds. The rate of cool-down is not monitored during this stage. The valve opens and closes depending on the programming mode.



3920

Usable default values

When you are programming a new program module, some of the questions will already have usable default values in place. These are the standard values which are used if you program in Standard mode.

You can naturally change these values, but they are there to provide an indication of settings which normally work well.

QUICK COOL-DOWN	N
MOTOR ACTION	N
VALVE ON TIME 100-70° C IN SEC.	3
VALVE ON TIME 70°-END IN SEC.	5
END TEMP	55°C
SPEED.RPM	48
ACCELERATION.RPM/SEC	20
READY	

3881

Y/N

Answer Yes (Y) or No (N).



Press .

Quick cool-down

If you answer **Yes (Y)**:

The machine will fill with cold water to a fixed higher level. The machine **does not** monitor the drop in temperature of the wash water. This function is used mainly for reducing the temperature of the water before it is discharged.

Do not use this function to prevent creasing of the wash load!

If you answer **No (N)**:

The machine makes a controlled cool down as described earlier.

QUICK COOL-DOWN	N
MOTOR ACTION	N
VALVE ON TIME 100-70° C IN SEC.	3
VALVE ON TIME 70°-END IN SEC.	5
END TEMP	55°C
SPEED.RPM	48
ACCELERATION.RPM/SEC	20
READY	

3882

-/G/N

Options:

- = Drum at standstill

G = Gentle action

N = Normal action



Press .

Drum action during cool-down

Allows you to determine drum action during cool-down. Options:

- = Drum at standstill

G = Gentle action

N = Normal action

QUICK COOL-DOWN	N
MOTOR ACTION	N
VALVE ON TIME 100-70° C IN SEC. 3	
VALVE ON TIME 70°-END IN SEC. 5	
END TEMP	55°C
SPEED.RPM	48
ACCELERATION.RPM/SEC	20
READY	

3883

Use the numeric keys to enter the required value.

 If wrong digits are given:
 Press ERASE.

When ready
Press .

Valve on-time in seconds

The cool-down sequence is divided into two stages according to the water temperature:

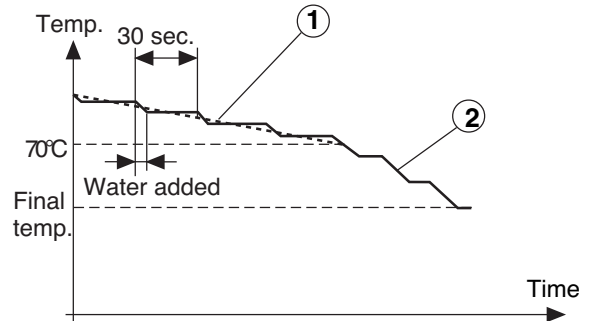
1 100 to 70°C

Here the machine monitors the sequence to ensure that the average cool-down rate does not exceed a set rate (normally 4°C per minute). If the rate set is exceeded, no water will be added until the mean value is acceptable again.

2 70° to final temperature

The rate of cool-down is not monitored during this stage. The valve opens and closes depending on the programming mode.

During the cool-down sequence cold water will be added for a fixed period at intervals of 30 seconds. It is this period (the valve "on-time") which you can determine here. You can program different "on-times" for the two temperature ranges described above.



3920

The valve on-time can be programmed from 0 to 30 seconds, in increments of 1 second.

QUICK COOL-DOWN	N
MOTOR ACTION	N
VALVE ON TIME 100-70° C IN SEC.	3
VALVE ON TIME 70°-END IN SEC.	5
END TEMP	55°C
SPEED.RPM	48
ACCELERATION.RPM/SEC	20
READY	

3885



Use the numeric keys to enter the required value.

If wrong digits are given:

Press ERASE.

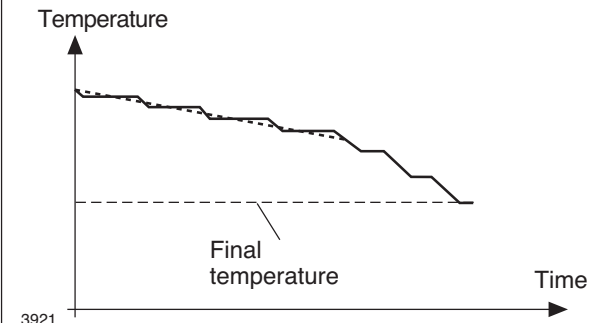


When ready

Press .

Final temperature

Enter the temperature you require for the water at the end of cool-down.



3921

QUICK COOL-DOWN	N
MOTOR ACTION	N
VALVE ON TIME 100-70° C IN SEC.	3
VALVE ON TIME 70°-END IN SEC.	5
END TEMP	55°C
SPEED.RPM	48
ACCELERATION.RPM/SEC	20
READY	

3886



Only for machines with frequency controlled motor.

Use the numeric keys to enter the required value.

If wrong digits are given:

Press ERASE.



When ready

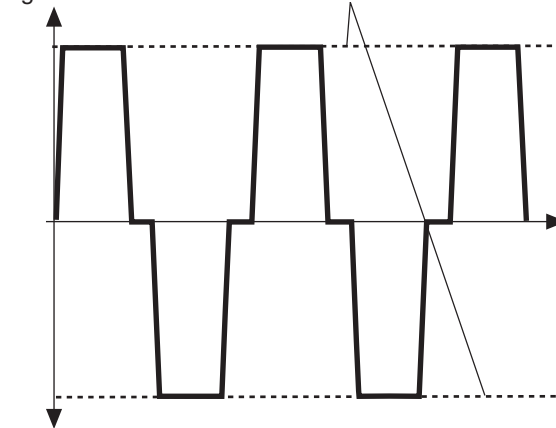
Press .

Drum speed during cool-down

You can determine the drum speed during cool-down. The speed will apply to both normal action and gentle action.

Drum speed right-hand rotation

This function allows you to set this level (the same for both right-hand and left-hand rotation)



Drum speed left-hand rotation

QUICK COOL-DOWN	N
MOTOR ACTION	N
VALVE ON TIME 100-70° C IN SEC.	3
VALVE ON TIME 70°-END IN SEC.	5
END TEMP	55°C
SPEED.RPM	48
ACCELERATION.RPM/SEC	20
READY	

3887



Only for machines with frequency controlled motor.

Use the numeric keys to enter the required value.

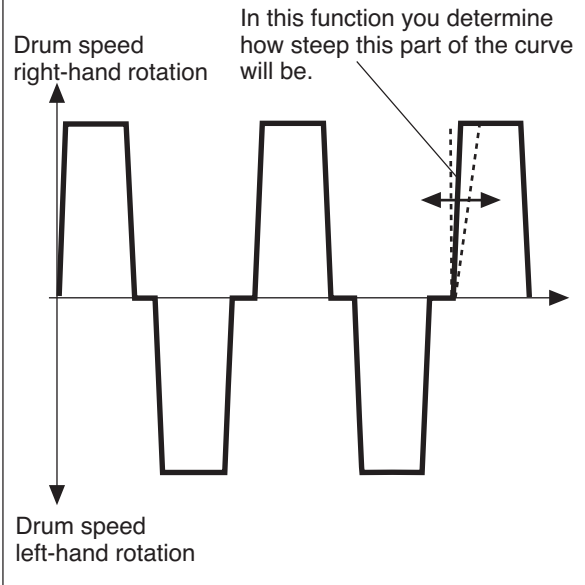
If wrong digits are given:
Press ERASE.



When ready
Press .

Acceleration rate during drain stage

This function allows you to determine the rate of acceleration for the drum, i.e. therpm per second at which its speed should increase until it reaches the speed you set in the last function. This setting will apply to both normal action and gentle action.



QUICK COOL-DOWN	N
MOTOR ACTION	N
VALVE ON TIME 100-70° C IN SEC.	3
VALVE ON TIME 70°-END IN SEC.	5
END TEMP	55°C
SPEED.RPM	48
ACCELERATION.RPM/SEC	20
READY	

3888



Once you have finished:
Check that **READY** is highlighted.

Press SELECT to exit the program module.

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