

WPM Operator Interface Instruction Manual

Batch Data - Database Storage & Recovery

30 Oct 2023

V1.06.01

1	Overview	3
2	Basic Operation	4
2.1	Main Start Screen	4
2.2	Batch Setup Screen	5
2.3	Group Selection	6
2.4	Type Selection	7
2.4.1	Wax Selection	8
2.5	Verification	9
2.5.1	Type Verification.....	9
2.5.2	Wax Verification	10
2.5.3	Alternate Verification	11
3	Saving, Loading & Copying Data	12
3.1	Saving a profile	12
3.1.1	Restoration	13
3.2	Loading a profile	14
3.3	Copying a profile.....	15
4	Renaming	18
4.1	Group Names	18
4.2	Type Names	19
4.3	Wax Names	20
5	Batch Customisation.....	21
5.1	Save Disable Option	22
5.2	Extended Data	23
5.2.1	Basic Operation:	24
5.2.2	Extended Operation with Wick data:	24
5.3	Wick Data	25
5.3.1	Wick Data Verification	26
5.4	Group / Type Nomenclature	27
6	Warnings & Alarms	29
6.1	Screen Switching Warning	29
6.2	Names have Defaulted - LOAD.....	30
6.3	Failure to LOAD/SAVE	31

1 Overview

The WPM requires settings when running each batch, such as the following:

Weight	Time	WP Speed	FP Speed	Dosage	Wicks	Waxes
600	5.6	50.6	22.6	10.0	80-85mm CDN 20	Soy Wax

These vary from batch to batch with varying requirements.

Rather than calibrating the machine each time, these can be stored in a Database.

This profile is stored as a Type, ie. "Large Santa":

Large Santa
Small Santa
Xmas Tree
Balsam & Cedar
Bay Berry
Christmas Candle
Fresh Cut Tree
Pine Needle Fraser Fir
Cedarwood & Fir
Winter Mantle

This example shows 10 Types that are suited for a range of products for the festive season.

These 10 Types are stored as a Group called "Xmas Specials".

This is only one Group of 20 available:

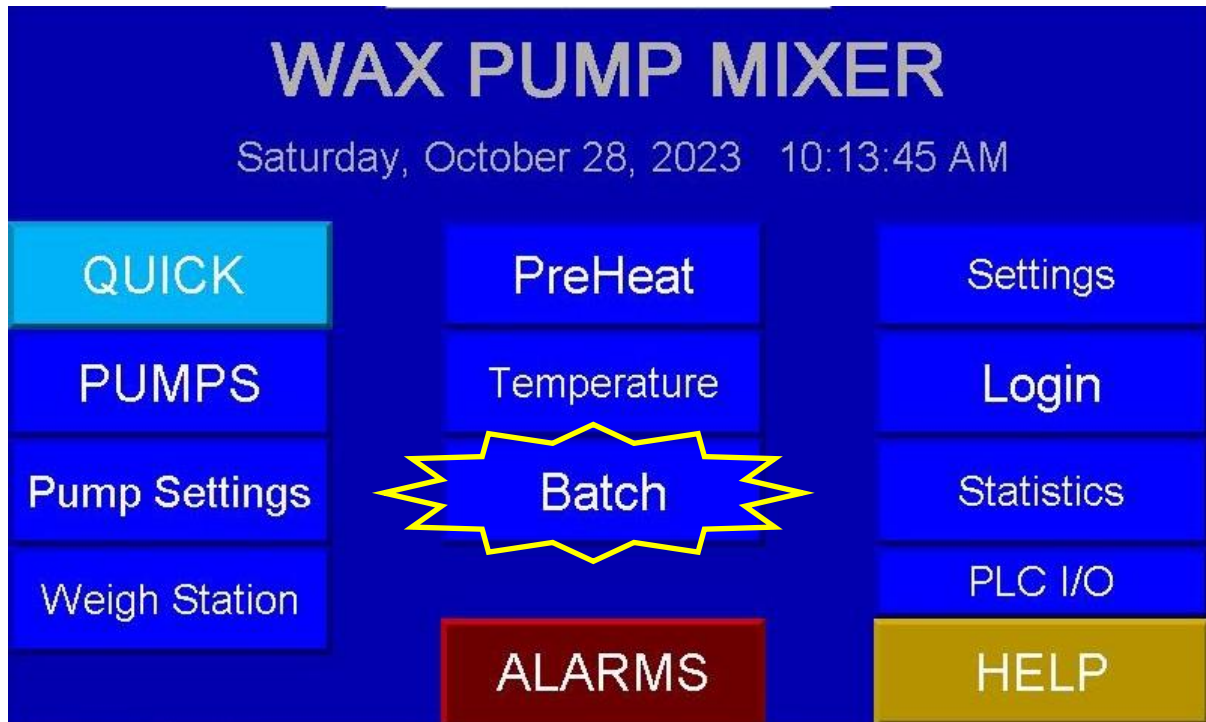
1	Con's Favourites	11	Group 11 Name
2	Xmas Specials	12	Group 12 Name
3	janelles	13	Group 13 Name
4	SOHUM	14	Group 14 Name
5	VANILLA	15	Group 15 Name
6	Group 6 Name	16	Group 16 Name
7	Group 7 Name	17	Group 17 Name
8	Group 8 Name	18	Group 18 Name
9	Group 9 Name	19	Group 19 Name
10	Group 10 Name	20	Group 20 Name

This shows that there are 20 Groups, each with 10 unique Types, giving 200 stored profiles.

2 Basic Operation

2.1 Main Start Screen

Select “Batch” to access the Batch Setup screen.



The “Settings” button will allow access to the Batch Customisation screen containing advanced settings. This is not required for basic operation.

2.2 Batch Setup Screen

The Batch Setup screen is divided into 2 halves.

The LEFT side shows the MACHINE parameters that are set within the WPM.

The RIGHT side shows the DATABASE parameters and has the controls for selecting and adjusting the database information.

Pressing on the "Group" accesses the Group selection page.

Pressing on the "Type" accesses the Type selection page for that Group.

The Status indicators (Red or Green) verify the information between the WPM and the Database.

The arrows MOVE the parameters between the WPM and the stored data in the Database.

The screenshot displays the 'Batch Setup' screen, which is split into two main sections: 'WAX PUMP MACHINE' on the left and 'DATABASE' on the right.

WAX PUMP MACHINE Section:

- At the top left is a green upward arrow icon.
- The title 'WAX PUMP MACHINE' is in large white letters.
- Below the title is a yellow box with a question mark '?' and the text 'PRODUCT CHANGE VERIFICATION'.
- The current product is 'Bay Berry', with a green status indicator (dot) to its right.
- The current wax is 'Wax 5', with a green status indicator (dot) to its right.
- A list of parameters is shown with their values and a right-pointing arrow for comparison:
 - Weight (g): 500
 - Time (sec): 5.5
 - WP Speed (%): 50.5
 - FP Speed (%): 22.5
 - Dosage (%): 10.0
- At the bottom, 'QTY:' is displayed with the value '0'.

DATABASE Section:

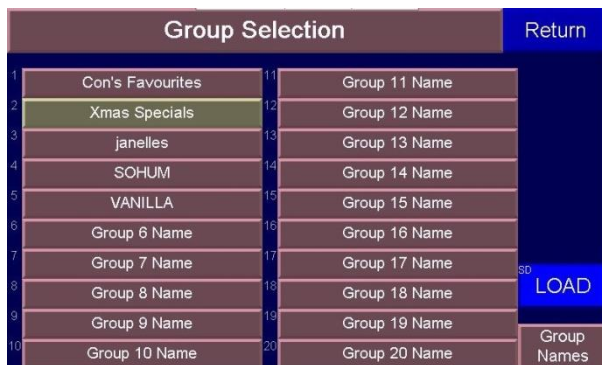
- The title 'DATABASE' is in large white letters.
- The 'Group' is 'Xmas Specials'.
- The 'Type' is 'Bay Berry'.
- The 'Wax' is 'Wax 5'.
- The same parameter values as the WPM section are listed, with a left-pointing arrow for comparison:
 - 500
 - 5.5
 - 50.5
 - 22.5
 - 10.0
- On the right side of the database section are three buttons: 'Prod Report', 'Type Names', and 'OK'.

2.3 Group Selection



Selection of the Group navigates to the Group Selection screen.

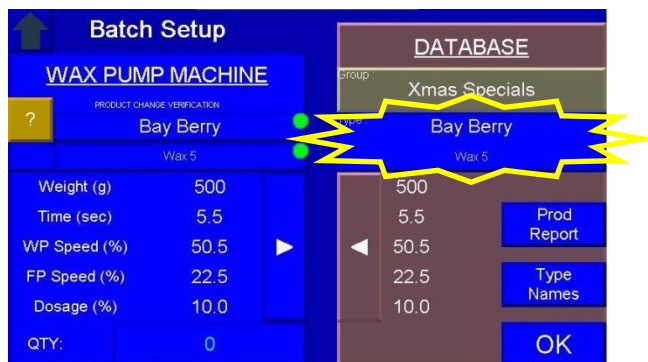
The Group can then be changed.



The Group selection screen also gives access to the "Group Names", where the names can be modified.

2.4 Type Selection

Once the Group has been selected, then the Types are available for that Group.



Selection of the Type navigates to the Type Selection screen.

The Type can then be changed.

Pressing on the required Type will change the selection to that request. ie. Bay Berry has been changed to Large Santa.

These 10 Types are unique for this Group. Selecting a different Group will give different Types.



The Type selection is distributed over 2 screens.

The RED arrow accesses the Wax options, and the BLUE arrow returns to the parameters.

The Left hand column with the Batch Type/Names remains the same on both screens.

The Type selection screen also gives access to the "Names", where the Wax names can be modified.

Any parameter can be changed by simply selecting the parameter.

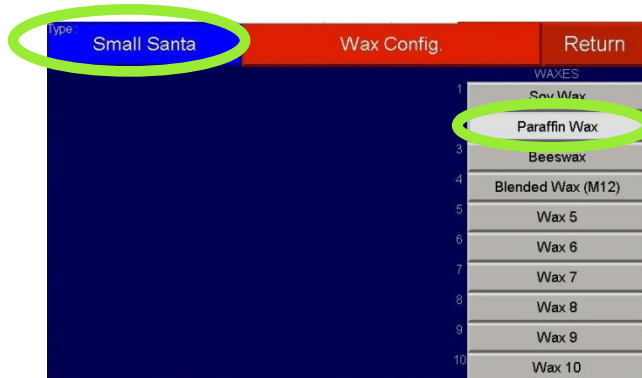
2.4.1 Wax Selection

Similarly Wax options can also be changed.



Pressing on the Wax to be changed will bring up the “Wax Config” screen.

In this example, although Large Santa is the type, the Wax option for the Small Santa has been selected (Paraffin Wax), thereby allowing that Wax option to be modified.



This enables the setting of all the Wax options for the Batch selected, without the need to change the Type selection.

2.5 Verification

The process of verifying reconciles the information between the WPM and the Database.

This also provides positive confirmation that the product has changed.

2.5.1 Type Verification

When the WPM parameters are different from those selected in the Database, then the RED status indicators will indicate a discrepancy.

The screenshot shows the 'Batch Setup' screen with the 'WAX PUMP MACHINE' section on the left and the 'DATABASE' section on the right. The 'WAX PUMP MACHINE' section has a 'PRODUCT CHANGE VERIFICATION' indicator with a red dot. The 'DATABASE' section shows 'Xmas Specials' as the group and 'Bay Berry' as the type. The 'WAX PUMP MACHINE' parameters are: Weight (g) 100, Time (sec) 5.1, WP Speed (%) 50.1, FP Speed (%) 22.1, Dosage (%) 10.0, and QTY: 0. The 'DATABASE' parameters are: Weight (g) 500, Time (sec) 5.5, WP Speed (%) 50.5, FP Speed (%) 22.5, and Dosage (%) 10.0. A yellow lightning bolt highlights the 'Large Santa' product name in the WPM section, indicating a discrepancy with the 'Bay Berry' type in the database. The 'Save Enabled' button is green, and the 'OK' button is blue.

WAX PUMP MACHINE		DATABASE	
PRODUCT CHANGE VERIFICATION		Group:	Xmas Specials
Large Santa		Type:	Bay Berry
Weight (g)	100		500
Time (sec)	5.1		5.5
WP Speed (%)	50.1		50.5
FP Speed (%)	22.1		22.5
Dosage (%)	10.0		10.0
QTY:	0		

Pressing the WPM Type will acknowledge the requirement for the WPM to adopt those parameters.

The Database Selections will be loaded into the active program.

This is observed below, where all the parameters match with the Database, and the Type Name is also written into the WPM.

The screenshot shows the 'Batch Setup' screen with the 'WAX PUMP MACHINE' section on the left and the 'DATABASE' section on the right. The 'WAX PUMP MACHINE' section has a 'PRODUCT CHANGE VERIFICATION' indicator with a green dot. The 'DATABASE' section shows 'Xmas Specials' as the group and 'Bay Berry' as the type. The 'WAX PUMP MACHINE' parameters are: Weight (g) 500, Time (sec) 5.5, WP Speed (%) 50.5, FP Speed (%) 22.5, Dosage (%) 10.0, and QTY: 0. The 'DATABASE' parameters are: Weight (g) 500, Time (sec) 5.5, WP Speed (%) 50.5, FP Speed (%) 22.5, and Dosage (%) 10.0. A yellow oval highlights the 'Bay Berry' product name in the WPM section, indicating a match with the 'Bay Berry' type in the database. The 'Save Enabled' button is green, and the 'OK' button is blue.

WAX PUMP MACHINE		DATABASE	
PRODUCT CHANGE VERIFICATION		Group:	Xmas Specials
Bay Berry		Type:	Bay Berry
Weight (g)	500		500
Time (sec)	5.5		5.5
WP Speed (%)	50.5		50.5
FP Speed (%)	22.5		22.5
Dosage (%)	10.0		10.0
QTY:	0		

2.5.2 Wax Verification

Pressing the WPM Wax will acknowledge the requirement for the WPM to adopt that Wax selection.

The screenshot shows the 'Batch Setup' interface for a 'WAX PUMP MACHINE'. It features a 'PRODUCT CHANGE VERIFICATION' section with a yellow lightning bolt indicating a change from 'Bay Berry' to 'Wax 5'. The 'DATABASE' section shows 'Group: Xmas Specials' and 'Type: Bay Berry'. The 'Wax 5' selection is highlighted. The interface includes fields for 'Weight (g)', 'Time (sec)', 'WP Speed (%)', 'FP Speed (%)', 'Dosage (%)', and 'QTY:'. The 'Save Enabled' button is green, and the 'OK' button is blue.

Parameter	Value
Weight (g)	500
Time (sec)	5.5
WP Speed (%)	50.5
FP Speed (%)	22.5
Dosage (%)	10.0
QTY:	0

This is a safeguard, and is an attempt to make the operator aware there has been a Wax change.

There is no way for the WPM to make a positive identification, but this gives the operator a chance to conduct a physical check to reduce the chance of a wrong product being used.

The Wax Selection will be written into the WPM program.

This is observed below, where the Wax Selection has been updated in the WPM.

The verification status indicator can also be seen as an acknowledgement of this change as it is GREEN.

The screenshot shows the 'Batch Setup' interface for a 'WAX PUMP MACHINE'. The 'PRODUCT CHANGE VERIFICATION' section now shows 'Wax 5' selected, which is circled in green. The 'DATABASE' section shows 'Group: Xmas Specials' and 'Type: Bay Berry'. The 'Wax 5' selection is highlighted. The interface includes fields for 'Weight (g)', 'Time (sec)', 'WP Speed (%)', 'FP Speed (%)', 'Dosage (%)', and 'QTY:'. The 'Save Enabled' button is green, and the 'OK' button is blue.

Parameter	Value
Weight (g)	500
Time (sec)	5.5
WP Speed (%)	50.5
FP Speed (%)	22.5
Dosage (%)	10.0
QTY:	0

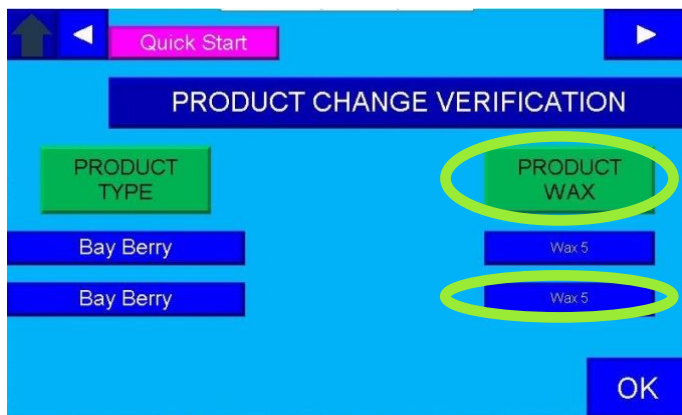
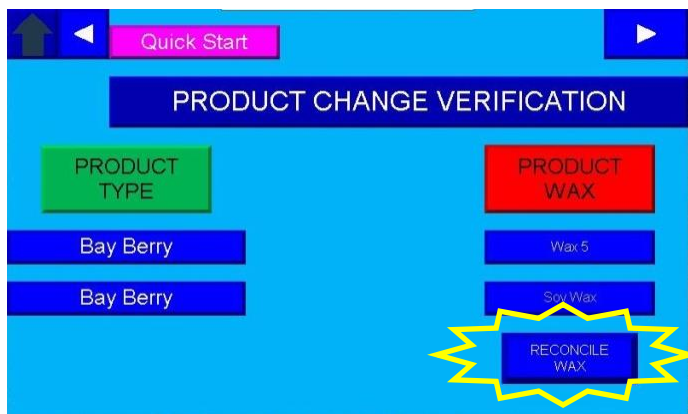
2.5.3 Alternate Verification

In the event that the parameters are not reconciled on the Batch Setup screen, then upon departing that screen with the “OK” button the operator is referred to the Product Verification page.

In the example below, the Product Type has been verified; however the Product Wax remains unacknowledged.

The Database has been selected as Wax 5, whereas the WPM remains set with “Soy Wax”.

Pressing the Reconcile Wax button will acknowledge the change and make the necessary adjustment.



3 Saving, Loading & Copying Data

A calibration procedure is required to calculate the operational parameters for a batch.

After a calibration, it is often required to record the calculated values.

The SAVE function enables these parameters to be stored in a Database.

The Load & Save also assists when using the same or similar profile information for different Types.

3.1 Saving a profile

Select the Group & Type in which the parameters are to be stored.

Pressing the RIGHT pointing arrow will then load these values from the WPM and into the Database.

Batch Setup

WAX PUMP MACHINE

PRODUCT CHANGE VERIFICATION

0

Wax 5

Weight (g)	500
Time (sec)	5.5
WP Speed (%)	50.5
FP Speed (%)	22.5
Dosage (%)	10.0

QTY: 0

DATABASE

Group: Xmas Specials

Type: Balsam & Cedar

Blended Wax (M12)

100
3.4
50.4
22.4
10.0

Prod Report

Type Names

OK

Batch Setup

WAX PUMP MACHINE

PRODUCT CHANGE VERIFICATION

0

Wax 5

Weight (g)	500
Time (sec)	5.5
WP Speed (%)	50.5
FP Speed (%)	22.5
Dosage (%)	10.0

QTY: 0

DATABASE

Group: Xmas Specials

Type: Balsam & Cedar

Blended Wax (M12)

500
5.5
50.5
22.5
10.0

Prod Report

Type Names

OK

Select the Type and progress to the Type Config screen.

Group : Xmas Specials		Type Config.				Return
Batch Type/Name	Weight	Time	WP Speed	FP Speed	Dosage	
Large Santa	400	5.1	50.1	22.1	10.0	
Small Santa	600	5.2	50.2	22.2	10.0	
Xmas Tree	300	5.3	50.3	22.3	10.0	
Balsam & Cedar	500	5.5	50.5	22.5	10.0	
Bay Berry	500	5.5	50.5	22.5	10.0	
Christmas Candle	600	5.6	50.6	22.6	10.0	
Fresh Cut Tree	700	5.7	50.7	22.7	10.0	
Pine Needle Frasier Fur	400	5.4	50.4	22.4	10.0	SD LOAD
Cedarwood & Fir	500	5.5	50.5	22.5	10.0	
Winter Mantle	600	5.6	50.6	22.6	10.0	SD SAVE

These values need to be SAVED into the Database.

Pressing SAVE has now stored this profile in the Database.

3.1.1 Restoration

If this has been done erroneously and not yet SAVED, then the LOAD can be selected as below and the previous values restored.

Group : Xmas Specials		Type Config.				Return
Batch Type/Name	Weight	Time	WP Speed	FP Speed	Dosage	
Large Santa	400	5.1	50.1	22.1	10.0	
Small Santa	600	5.2	50.2	22.2	10.0	
Xmas Tree	300	5.3	50.3	22.3	10.0	
Balsam & Cedar	100	3.4	50.4	22.4	10.0	
Bay Berry	500	5.5	50.5	22.5	10.0	
Christmas Candle	600	5.6	50.6	22.6	10.0	
Fresh Cut Tree	700	5.7	50.7	22.7	10.0	
Pine Needle Frasier Fur	400	5.4	50.4	22.4	10.0	SD LOAD
Cedarwood & Fir	500	5.5	50.5	22.5	10.0	
Winter Mantle	600	5.6	50.6	22.6	10.0	SD SAVE

3.2 Loading a profile

Select the Group & Type in which the parameters are to be stored.

Pressing the LEFT pointing arrow will then load these values from the Database and into the WPM.

Batch Setup

WAX PUMP MACHINE

PRODUCT CHANGE VERIFICATION

? 0

Wax 5

Weight (g)	500
Time (sec)	5.5
WP Speed (%)	50.5
FP Speed (%)	22.5
Dosage (%)	10.0
QTY:	0

DATABASE

Group : Xmas Specials

Type : Balsam & Cedar

Blended Wax (M12)

100	Prod Report
3.4	Type Names
50.4	
22.4	
10.0	

OK

Batch Setup

WAX PUMP MACHINE

PRODUCT CHANGE VERIFICATION

? 0

Wax 5

Weight (g)	100
Time (sec)	3.4
WP Speed (%)	50.4
FP Speed (%)	22.4
Dosage (%)	10.0
QTY:	0

DATABASE

Group : Xmas Specials

Type : Balsam & Cedar

Blended Wax (M12)

100	Prod Report
3.4	Type Names
50.4	
22.4	
10.0	

OK

3.3 Copying a profile

This process is helpful when using the same or similar profile information for different Types.

Select the Group & Type in which the parameters are to be stored.

Pressing the LEFT pointing arrow will then load these values from the WPM and into the Database.

Here we are Copying the parameters from the “Balsam & Cedar” Type, to the “Cedarwood & Fir” Type.

Select the “Balsam & Cedar” Type.

Pressing the LEFT pointing arrow will then load these values from the Database and into the WPM.

The screenshot shows the 'Batch Setup' screen for a 'WAX PUMP MACHINE'. On the left, the 'WAX PUMP MACHINE' section displays parameters: Weight (g) 500, Time (sec) 5.5, WP Speed (%) 50.5, FP Speed (%) 22.5, Dosage (%) 10.0, and QTY: 0. These values are circled in green. On the right, the 'DATABASE' section shows 'Group: Xmas Specials' and 'Type: Balsam & Cedar'. Below this, a list of parameters (100, 3.4, 50.4, 22.4, 10.0) is shown. A yellow starburst graphic with a left-pointing arrow indicates the transfer of these values from the database to the WPM. Buttons for 'Prod Report', 'Type Names', and 'OK' are visible on the right.

Select the Type which will navigate to the Type Config. screen.

The screenshot shows the 'Batch Setup' screen for a 'WAX PUMP MACHINE'. On the left, the 'WAX PUMP MACHINE' section displays parameters: Weight (g) 100, Time (sec) 3.4, WP Speed (%) 50.4, FP Speed (%) 22.4, Dosage (%) 10.0, and QTY: 0. These values are circled in green. On the right, the 'DATABASE' section shows 'Group: Xmas Specials' and 'Type: Balsam & Cedar'. Below this, a list of parameters (100, 3.4, 50.4, 22.4, 10.0) is shown. A yellow starburst graphic with a left-pointing arrow indicates the transfer of these values from the database to the WPM. Buttons for 'Prod Report', 'Type Names', and 'OK' are visible on the right.

Select "Cedarwood & Fir" from the options. If the required Type is in another Group, then navigate to that Type.

Group :	Type Config.					Return
Batch Type/Name	Weight	Time	WP Speed	FP Speed	Dosage	
Large Santa	400	5.1	50.1	22.1	10.0	
Small Santa	600	5.2	50.2	22.2	10.0	
Xmas Tree	300	5.3	50.3	22.3	10.0	
Balsam & Cedar	100	3.4	50.4	22.4	10.0	
Bay Berry	500	5.5	50.5	22.5	10.0	
Christmas Candle	600	5.6	50.6	22.6	10.0	
Fresh Cut Tree	700	5.7	50.7	22.7	10.0	
Pine Needle Fraser Fir	400	5.4	50.4	22.4	10.0	SD LOAD
Cedarwood & Fir	500	5.5	50.5	22.5	10.0	SD SAVE
Winter Mantle	600	5.6	50.6	22.6	10.0	

Return to the Batch Setup screen.

Pressing the RIGHT pointing arrow will then load these values from the WPM and into the Database.

Batch Setup

WAX PUMP MACHINE

PRODUCT CHANGE VERIFICATION

?

0

Wax 5

Weight (g) 100

Time (sec) 3.4

WP Speed (%) 50.4

FP Speed (%) 22.4

Dosage (%) 10.0

QTY: 0

500

5.5

50.5

22.5

10.0

DATABASE

Group : Xmas Specials

Type : Cedarwood & Fir

Wax 9

500

5.5

50.5

22.5

10.0

Prod Report

Type Names

OK

Select the Type which will navigate to the Type Config. screen.

Batch Setup

WAX PUMP MACHINE

PRODUCT CHANGE VERIFICATION

0

Wax 5

Weight (g) 100

Time (sec) 3.4

WP Speed (%) 50.4

FP Speed (%) 22.4

Dosage (%) 10.0

QTY: 0

DATABASE

Group: Xmas Specials

Type: Cedarwood & Fir

Wax 9

100

3.4

50.4

22.4

10.0

Prod Report

Type Names

OK

The new parameters can be seen in the "Cedarwood & Fir" designation.

Press SAVE to commit this to the Database.

Group: Xmas Specials	Type Config.					Return
Batch Type/Name	Weight	Time	WP Speed	FP Speed	Dosage	
Large Santa	400	5.1	50.1	22.1	10.0	
Small Santa	600	5.2	50.2	22.2	10.0	
Xmas Tree	300	5.3	50.3	22.3	10.0	
Balsam & Cedar	100	3.4	50.4	22.4	10.0	
Bay Berry	500	5.5	50.5	22.5	10.0	
Christmas Candle	600	5.6	50.6	22.6	10.0	
Fresh Cut Tree	700	5.7	50.7	22.7	10.0	
Pine Needle Frasier Fur	400	5.4	50.4	22.4	10.0	LOAD
Cedarwood & Fir	100	3.4	50.4	22.4	10.0	SAVE
Winter Mantle	600	5.6	50.6	22.6	10.0	

4 Renaming

The OIT has a USB on the back, and can be accessed with a keyboard for simplifying the editing process where multiple entries are required.

4.1 Group Names

Batch Setup

WAX PUMP MACHINE

PRODUCT CHANGE VERIFICATION

Bay Berry

Wax 5

Weight (g) 500

Time (sec) 5.5

WP Speed (%) 50.5

FP Speed (%) 22.5

Dosage (%) 10.0

QTY: 0

DATABASE

Group: Xmas Specials

Type: Bay Berry

Wax 5

500

5.5

50.5

22.5

10.0

Prod Report

Type Names

OK

Group Selection Return

1	Con's Favourites	11	Group 11 Name
2	Xmas Specials	12	Group 12 Name
3	janelles	13	Group 13 Name
4	SOHUM	14	Group 14 Name
5	VANILLA	15	Group 15 Name
6	Group 6 Name	16	Group 16 Name
7	Group 7 Name	17	Group 17 Name
8	Group 8 Name	18	Group 18 Name
9	Group 9 Name	19	Group 19 Name
10	Group 10 Name	20	Group 20 Name

LOAD

Group Names

Group Names Return

1	Con's Favourites	11	Group 11 Name
2	Xmas Specials	12	Group 12 Name
3	janelles	13	Group 13 Name
4	SOHUM	14	Group 14 Name
5	VANILLA	15	Group 15 Name
6	Group 6 Name	16	Group 16 Name
7	Group 7 Name	17	Group 17 Name
8	Group 8 Name	18	Group 18 Name
9	Group 9 Name	19	Group 19 Name
10	Group 10 Name	20	Group 20 Name

LOAD

SAVE

Xmas Specials

Return

1	Esc	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	Home	End
2	`	1	2	3	4	5	6	7	8	9	0	-	=	←	
3	←	q	w	e	r	t	y	u	i	o	p	[]	\	
4	→	a	s	d	f	g	h	j	k	l	;	'	←		
5	Caps	z	x	c	v	b	n	m	,	.	/		↑		
6	Shift														
7															
8	Ctrl	Win	Alt							ins	del		←	↓	→
9															
10															

Group 9 Name

Group 10 Name

Group 19 Name

Group 20 Name

SAVE

4.2 Type Names

Batch Setup

WAX PUMP MACHINE

PRODUCT CHANGE VERIFICATION

Bay Berry

Wax 5

Weight (g)	500
Time (sec)	5.5
WP Speed (%)	50.5
FP Speed (%)	22.5
Dosage (%)	10.0

QTY: 0

DATABASE

Group: Xmas Specials

Type: Bay Berry

Wax 5

500	Prod Report
5.5	Type Names
50.5	
22.5	
10.0	

OK

Group: Xmas Specials

Type Names

Return

1	Large Santa
2	Small Santa
3	Xmas Tree
4	Balsam & Cedar
5	Bay Berry
6	Christmas Candle
7	Fresh Cut Tree
8	Pine Needle Frasier Fur
9	Cedarwood & Fir
10	Winter Mantle

LOAD

SAVE

Group: Balsam & Cedar

Names

Return

1	Esc	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	Home	End
2	`	1	2	3	4	5	6	7	8	9	0	-	=	←	
3	←	→	q	w	e	r	t	y	u	i	o	p	[]	\
4															
5	Caps	a	s	d	f	g	h	j	k	l	;	'	↵		
6	Shift	z	x	c	v	b	n	m	,	.	/		↑		
7	Ctrl	Win	Alt						ins	del		←	↓	→	
8															
9															
10															

Cedarwood & Fir

Winter Mantle

SAVE

4.3 Wax Names

Batch Setup

WAX PUMP MACHINE

PRODUCT CHANGE VERIFICATION

Bay Berry

Wax 5

Weight (g) 500

Time (sec) 5.5

WP Speed (%) 50.5

FP Speed (%) 22.5

Dosage (%) 10.0

QTY: 0

DATABASE

Group: Xmas Specials

Type: Bay Berry

Wax 5

500

5.5

50.5

22.5

10.0

Prod Report

Type Names

OK

Group	Xmas Specials	Type Config.	Return
Batch Type/Name	Weight	Time	WP Speed FP Speed Dosage
Large Santa	400	5.1	50.1 22.1 10.0
Small Santa	600	5.2	50.2 22.2 10.0
Xmas Tree	300	5.3	50.3 22.3 10.0
Balsam & Cedar	100	3.4	50.4 22.4 10.0
Bay Berry	500	5.5	50.5 22.5 10.0
Christmas Candle	600	5.6	50.6 22.6 10.0
Fresh Cut Tree	700	5.7	50.7 22.7 10.0
Pine Needle Fraser Fir	400	5.4	50.4 22.4 10.0
Cedarwood & Fir	500	5.5	50.5 22.5 10.0
Winter Mantle	600	5.6	50.6 22.6 10.0

Group	Xmas Specials	Type Config.	Return
Batch Type/Name	Weight	Time	WP Speed FP Speed Dosage
Large Santa	400	5.1	50.1 22.1 10.0
Small Santa	600	5.2	50.2 22.2 10.0
Xmas Tree	300	5.3	50.3 22.3 10.0
Balsam & Cedar	100	3.4	50.4 22.4 10.0
Bay Berry	500	5.5	50.5 22.5 10.0
Christmas Candle	600	5.6	50.6 22.6 10.0
Fresh Cut Tree	700	5.7	50.7 22.7 10.0
Pine Needle Fraser Fir	400	5.4	50.4 22.4 10.0
Cedarwood & Fir	500	5.5	50.5 22.5 10.0
Winter Mantle	600	5.6	50.6 22.6 10.0

Wax Names

LOAD Return

Wax 5

WAXES

1 Soy Wax

2 Paraffin Wax

3 Beeswax

4 Blended Wax (M12)

5 Wax 5

6 Wax 6

7 Wax 7

8 Wax 8

9 Wax 9

10 Wax 10

Esc F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 Home End

1 2 3 4 5 6 7 8 9 0 - = ←

q w e r t y u i o p [] \

Caps a s d f g h j k l ; ' ←

Shift z x c v b n m , . / ↑

Ctrl Win Alt ins del ← ↓ →

Wax 9

Wax 10

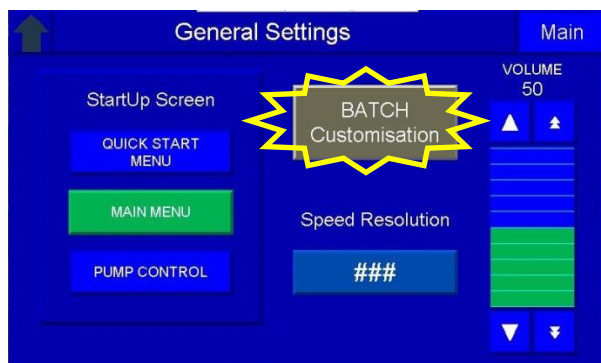
5 Batch Customisation

The Batch Setup can be configured to enhance its features to suit more custom operations.

Having a hidden Save button can assist in reducing the occurrence of erroneously overwriting data.

Increasing the Database Size can add functionality to expanding operations, while conversely simplifying smaller scale processes.

Wick information can also be selected if there is a requirement to consider it part of the production process.



5.1 Save Disable Option

The “Save Disable” customisation enable the save button to be disabled.

This prevents erroneous overwriting of Database parameters.

In busy production periods or training, there may be the need to protect the database information from being accidentally erased.

If data is lost then it may require a recalibration.

Selecting “OFF” simply leaves all the Save features readily available.

Selecting “ON” gives the operator the option to disable at their discretion from the Batch Setup screen.

The screenshot shows the 'Batch Customisation' screen with a blue background. At the top, there is a 'Return' button. Below it, the 'Save Button Disable Option' is set to 'ON' (highlighted with a green starburst). A note below this option states: 'This prevents accidentally overwriting of database values.' Below this, the 'Database Size' is set to 'BASIC' (10 Types/Group) with a note: 'Basic - Requires less pages and simplifies navigation.' At the bottom, the 'Wick Data' is set to 'OFF' with a note: 'Activate only if Wick information is available and is required for dosing.'

The screenshot shows the 'Batch Setup' screen. On the left, there is a 'WAX PUMP MACHINE' section with a 'PRODUCT CHANGE VERIFICATION' button. Below this, the 'Bay Berry' product is selected. The 'DATABASE' section shows 'Xmas Specials' as the group and 'Bay Berry' as the type. The 'Type Config. Page 1' table lists various products and their parameters. The 'Save Disabled' button is highlighted with a green starburst. The 'LOAD' button is also highlighted with a green circle.

Batch Type/Name	Weight	Time	WP Speed	FP Speed	Dosage
Large Santa	400	5.1	50.1	22.1	10.0
Small Santa	600	5.2	50.2	22.2	10.0
Xmas Tree	300	5.3	50.3	22.3	10.0
Balsam & Cedar	100	3.4	50.4	22.4	10.0
Bay Berry	500	5.5	50.5	22.5	10.0
Christmas Candle	600	5.6	50.6	22.6	10.0
Fresh Cut Tree	700	5.7	50.7	22.7	10.0
Pine Needle Fraser Fir	400	5.4	50.4	22.4	10.0
Cedarwood & Fir	500	5.5	50.5	22.5	10.0
Winter Mantle	600	5.6	50.6	22.6	10.0

The screenshot shows the 'Batch Setup' screen. The 'Save Enabled' button is highlighted with a green starburst. The 'LOAD' button is also highlighted with a green starburst. The 'SAVE' button is also highlighted with a green starburst.

5.2 Extended Data

The image shows a 'Batch Customisation' screen with a blue background and white text. At the top right is a 'Return' button. The screen is divided into three sections, each with a label on the left and two buttons on the right. The first section is 'Save Button Disable Option' with 'OFF' (green) and 'ON' (blue) buttons; a note below says 'This prevents accidentally overwriting of database values.' The second section is 'Database Size' with 'BASIC' (blue) and 'EXTENDED' (green) buttons; a note below says '10 Types/Group' and 'Basic - Requires less pages and simplifies navigation.' The 'EXTENDED' button is highlighted with a yellow starburst. The third section is 'Wick Data' with 'OFF' (green) and 'ACTIVE' (blue) buttons; a note below says 'Activate only if Wick information is available and is required for dosing.'

Extended Data allows for more Types in each group.

The Basic system is restricted to 10 Types, as this reduced the number of screens required to access the data.

Extended Database Size doubles this to 20 records for each Group.

These are split over 2 pages.

Page 1 are for Types 1 – 10.

Page 2 are for Types 11 – 20.

It is suggested to not enable this function unless required, so as to simplify operation and reduce training time for new or inexperienced operators.

5.2.1 Basic Operation:

The default is 10 Types.

Group	Xmas Specials	Type Config.					Return	Group	Xmas Specials	Type Config.					Return
	Batch Type/Name	Weight	Time	WP Speed	FP Speed	Dosage			Batch Type/Name						
	Large Santa	400	5.1	50.1	22.1	10.0			Large Santa						
	Small Santa	600	5.2	50.2	22.2	10.0			Small Santa						
	Xmas Tree	300	5.3	50.3	22.3	10.0			Xmas Tree						
	Balsam & Cedar	100	3.4	50.4	22.4	10.0			Balsam & Cedar						
	Bay Berry	500	5.5	50.5	22.5	10.0			Bay Berry						
	Christmas Candle	600	5.6	50.6	22.6	10.0			Christmas Candle						
	Fresh Cut Tree	700	5.7	50.7	22.7	10.0			Fresh Cut Tree						
	Pine Needle Fraser Fur	400	5.4	50.4	22.4	10.0			Pine Needle Fraser Fur						
	Cedarwood & Fir	500	5.5	50.5	22.5	10.0			Cedarwood & Fir						
	Winter Mantle	600	5.6	50.6	22.6	10.0			Winter Mantle						

5.2.2 Extended Operation with Wick data:

Page down gives access to another 10 Types (11-20).

The screens are expanded to Page 1 and Page 2.

Page 1 (1-10)

Group	Xmas Specials	Type Config. Page 1					Return	Group	Xmas Specials	Type Config. Page 1					Return
	Batch Type/Name	Weight	Time	WP Speed	FP Speed	Dosage			Batch Type/Name						
	Large Santa	400	5.1	50.1	22.1	10.0			Large Santa	36mm CDN 3		Soy Wax			
	Small Santa	600	5.2	50.2	22.2	10.0			Small Santa	40mm CDN 4		Paraffin Wax			
	Xmas Tree	300	5.3	50.3	22.3	10.0			Xmas Tree	40-45mm CDN 6		Beeswax			
	Balsam & Cedar	100	3.4	50.4	22.4	10.0			Balsam & Cedar	45-50mm CDN 7		Blended Wax (M12)			
	Bay Berry	500	5.5	50.5	22.5	10.0			Bay Berry	50-55mm CDN 8		Wax 5			
	Christmas Candle	600	5.6	50.6	22.6	10.0			Christmas Candle	55-60mm CDN 10		Wax 6			
	Fresh Cut Tree	700	5.7	50.7	22.7	10.0			Fresh Cut Tree	60-65mm CDN 12		Wax 7			
	Pine Needle Fraser Fur	400	5.4	50.4	22.4	10.0			Pine Needle Fraser Fur	65-70mm CDN 14		Wax 8			
	Cedarwood & Fir	500	5.5	50.5	22.5	10.0			Cedarwood & Fir	70-75mm CDN 16		Wax 9			
	Winter Mantle	600	5.6	50.6	22.6	10.0			Winter Mantle	75-80mm CDN 18		Wax 10			

Page 2 (11-20)

Group	Xmas Specials	Type Config. Page 2					Return	Group	Xmas Specials	Type Config. Page 2					Return
	Batch Type/Name	Weight	Time	WP Speed	FP Speed	Dosage			Batch Type/Name						
	Frag 011	600	5.6	50.6	22.6	10.0			Frag 011	80-85mm CDN 20		Soy Wax			
	Frag 012	600	5.6	50.6	22.6	10.0			Frag 012	85-90mm CDN 22		Paraffin Wax			
	Group 2 Frag 013	500	5.5	50.5	22.5	10.0			Group 2 Frag 013	90-95mm CDN 24		Beeswax			
	Group 2 Frag 014	600	5.6	50.6	22.6	10.0			Group 2 Frag 014	90-100mm CDN 26		Blended Wax (M12)			
	Group 2 Frag 015	600	5.6	50.6	22.6	10.0			Group 2 Frag 015	95-105mm CDN 28		Wax 5			
	Group 2 Frag 016	600	5.6	50.6	22.6	10.0			Group 2 Frag 016	100-110mm CDN 30		Wax 6			
	Group 2 Frag 017	500	5.5	50.5	22.5	10.0			Group 2 Frag 017	Wick 17		Wax 7			
	Group 2 Frag 018	600	5.6	50.6	22.6	10.0			Group 2 Frag 018	Wick 18		Wax 8			
	Group 2 Frag 019	600	5.6	50.6	22.6	10.0			Group 2 Frag 019	Wick 19		Wax 9			
	Group 2 Frag 020	600	5.6	50.6	22.6	10.0			Group 2 Frag 020	Wick 20		Wax 10			

5.3 Wick Data

Batch Customisation Return

Save Button Disable Option OFF ON
This prevents accidentally overwriting of database values.

Database Size BASIC EXTENDED
10 Types/Group 20 Types/Group
Basic - Requires less pages and simplifies navigation.

Wick Data OFF ACTIVE
Activate only if Wick information is available and is required for dosing.

With Wick Data selected, then the Wick options appear alongside the Wax options.

Group		Xmas Specials					Type Config.	Page 1	Return	Group		Xmas Specials					Type Config.	Page 1	Return		
		Batch Type/Name	Weight	Time	WP Speed	FP Speed	Dosage					Batch Type/Name	Weight	Time	WP Speed	FP Speed	Dosage				
		Large Santa	400	5.1	50.1	22.1	10.0					Large Santa	36mm CDN 3					Soy Wax			Names
		Small Santa	600	5.2	50.2	22.2	10.0					Small Santa	40mm CDN 4					Paraffin Wax			
		Xmas Tree	300	5.3	50.3	22.3	10.0	Page 2				Xmas Tree	40-45mm CDN 6					Beeswax	Page 2		
		Balsam & Cedar	100	3.4	50.4	22.4	10.0	▼				Balsam & Cedar	45-50mm CDN 7					Blended Wax (M12)	▼		
		Bay Berry	500	5.5	50.5	22.5	10.0	▶				Bay Berry	50-55mm CDN 8					Wax 5	▶		
		Christmas Candle	600	5.6	50.6	22.6	10.0	SD				Christmas Candle	55-60mm CDN 10					Wax 6	SD		
		Fresh Cut Tree	700	5.7	50.7	22.7	10.0	LOAD				Fresh Cut Tree	60-65mm CDN 12					Wax 7	LOAD		
		Pine Needle Fraser Fir	400	5.4	50.4	22.4	10.0	SD				Pine Needle Fraser Fir	65-70mm CDN 14					Wax 8	SD		
		Cedarwood & Fir	500	5.5	50.5	22.5	10.0	SD				Cedarwood & Fir	70-75mm CDN 16					Wax 9	SD		
		Winter Mantle	600	5.6	50.6	22.6	10.0	SAVE				Winter Mantle	75-80mm CDN 18					Wax 10	SD		SAVE

The Wax Configuration screen is expanded to include the Wick selections.

50

SAVE	Wick & Wax Config.		LOAD	Return
	WICKS		WAXES	
1	36mm CDN 3	80-85mm CDN 20	1	Soy Wax
	40mm CDN 4	85-90mm CDN 22	2	Paraffin Wax
	40-45mm CDN 6	90-95mm CDN 24	3	Beeswax
	45-50mm CDN 7	90-100mm CDN 26	4	Blended Wax (M12)
	50-55mm CDN 8	95-105mm CDN 28	5	Wax 5
	55-60mm CDN 10	100-110mm CDN 30	6	Wax 6
	60-65mm CDN 12	Wick 17	7	Wax 7
	65-70mm CDN 14	Wick 18	8	Wax 8
	70-75mm CDN 16	Wick 19	9	Wax 9
10	75-80mm CDN 18	Wick 20	10	Wax 10

5.3.1 Wick Data Verification

The Batch Setup also includes the Wick data, with the added requirement that the Wick selection also be acknowledged (similar operation to Wax).

The screenshot shows the 'Batch Setup' screen with a 'WAX PUMP MACHINE' section on the left and a 'DATABASE' section on the right. The 'WAX PUMP MACHINE' section has a 'PRODUCT CHANGE VERIFICATION' header and a 'Bay Berry' product name. Below this, there are fields for '36mm CDN 3' and 'Wax 5'. A yellow lightning bolt icon is next to the '36mm CDN 3' field. The 'DATABASE' section has a 'group: Xmas Specials' and a 'Type: Bay Berry' field. Below this, there are fields for '50-55mm CDN 8' and 'Wax 5'. The 'Wax 5' field has a yellow lightning bolt icon. The 'DATABASE' section also has buttons for 'Prod Report', 'Type Names', 'Save', 'Disabled', and 'OK'.

WAX PUMP MACHINE	
PRODUCT CHANGE VERIFICATION	
Bay Berry	
36mm CDN 3	Wax 5
Weight (g)	500
Time (sec)	5.5
WP Speed (%)	50.5
FP Speed (%)	22.5
Dosage (%)	10.0
QTY:	0

DATABASE	
group:	Xmas Specials
Type:	Bay Berry
50-55mm CDN 8	Wax 5
500	5.5
50.5	22.5
10.0	
Save	Disabled
Prod Report	Type Names
OK	

The screenshot shows the 'PRODUCT CHANGE VERIFICATION' screen with a 'Quick Start' button at the top. Below this, there are three columns: 'PRODUCT TYPE', 'PRODUCT WICK', and 'PRODUCT WAX'. The 'PRODUCT TYPE' column has two rows with 'Balsam & Cedar'. The 'PRODUCT WICK' column has two rows with '45-50mm CDN 7' and '36mm CDN 3'. The 'PRODUCT WAX' column has two rows with 'Blended Wax (M12)' and 'Wax 5'. The '36mm CDN 3' field is circled in yellow. Below the 'PRODUCT WICK' column, there are buttons for 'RECONCILE WICK' and 'RECONCILE WAX'. A yellow lightning bolt icon is next to the 'RECONCILE WICK' button.

PRODUCT CHANGE VERIFICATION		
PRODUCT TYPE	PRODUCT WICK	PRODUCT WAX
Balsam & Cedar	45-50mm CDN 7	Blended Wax (M12)
Balsam & Cedar	36mm CDN 3	Wax 5
RECONCILE WICK		RECONCILE WAX

5.4 Group / Type Nomenclature

“Group” and “Type” may not be the ideal descriptions for specific operations.

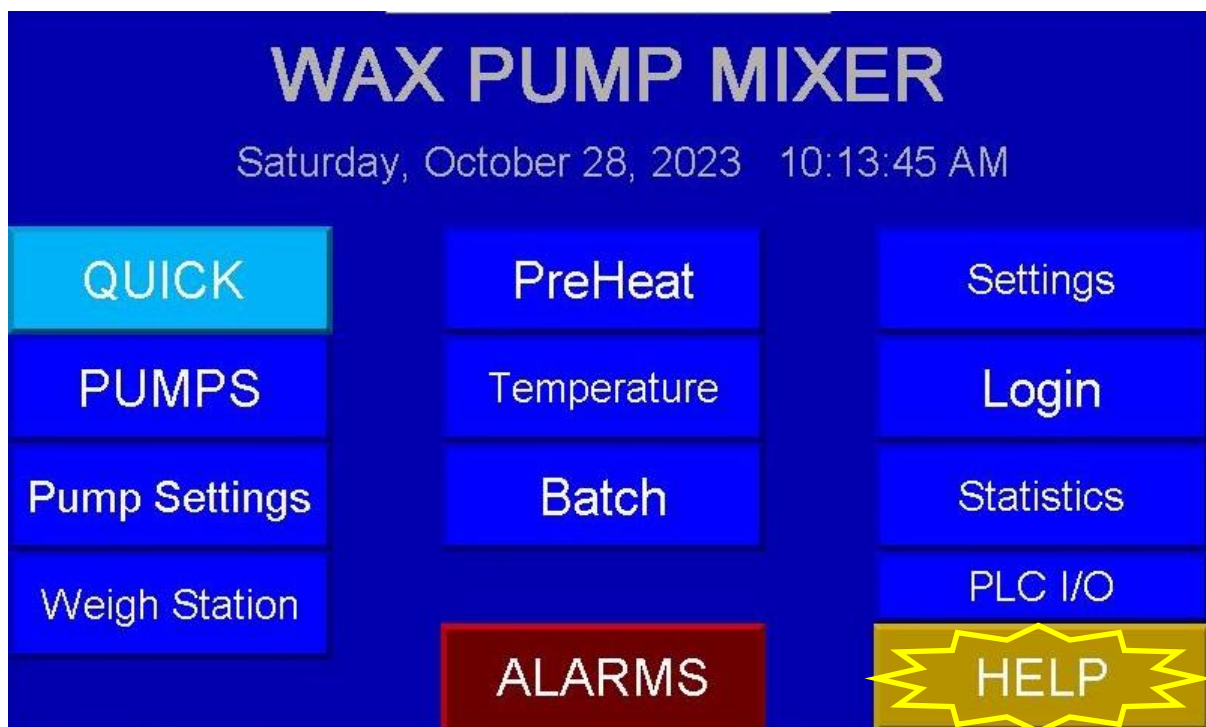
The WPM has the ability to modify these labels that better suit a facility.

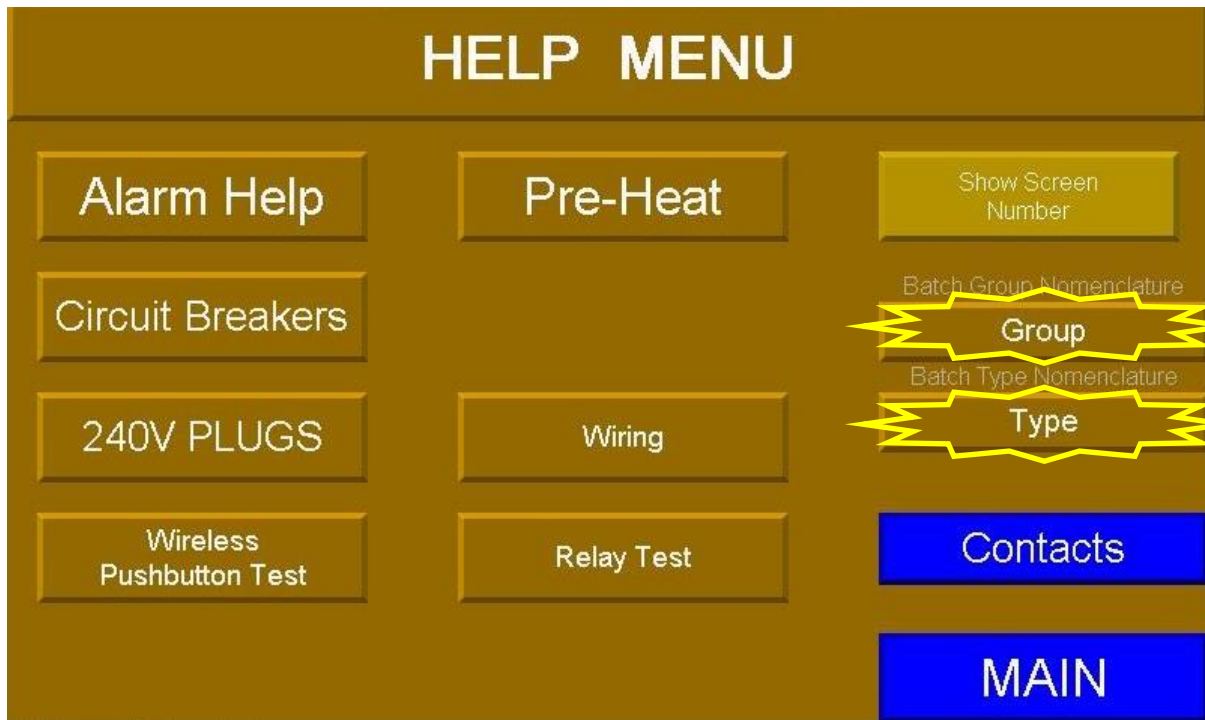
Some alternative names for Group may be:

- Customer
- Client
- Theme

Some alternative names for Type may be:

- Profile
- Product
- Batch





6 Warnings & Alarms

6.1 Screen Switching Warning

A warning informing the operator of an issue is displayed as a YELLOW warning banner.

This example shows “Screen switching controlled by external source”.

This simply means that the WPM is busy uploading data from the Database (memory card) in order to update the machine.

This may happen when an operator becomes more experienced and progresses at a pace faster than the Database can update.

This data transfer usually only requires 1 second or less.



6.2 Names have Defaulted - LOAD

If the system has not had a chance to upload from the Database, then it may default to more generic names. In this example the Wax Names have not been loaded.

The screenshot shows a screen with a dark blue background. At the top, there is a red header bar with three buttons: 'SAVE' (blue), 'Wax Names' (white), and 'Return' (red). The 'LOAD' button is highlighted with a yellow starburst. Below the header, there is a list of 10 items, each with a number and a name. The names are generic: 'Wax 1' through 'Wax 10'. The 'LOAD' button is located to the right of the list.

	WAXES
1	Wax 1
2	Wax 2
3	Wax 3
4	Wax 4
5	Wax 5
6	Wax 6
7	Wax 7
8	Wax 8
9	Wax 9
10	Wax 10

Simply Press LOAD and the Names that are stored in the Database will be updated.

The screenshot shows the same screen as before, but the names have been updated. The 'LOAD' button is now green. The names are: 'Soy Wax', 'Paraffin Wax', 'Beeswax', 'Blended Wax (M12)', 'Wax 5', 'Wax 6', 'Wax 7', 'Wax 8', 'Wax 9', and 'Wax 10'. The 'LOAD' button is located to the right of the list.

	WAXES
1	Soy Wax
2	Paraffin Wax
3	Beeswax
4	Blended Wax (M12)
5	Wax 5
6	Wax 6
7	Wax 7
8	Wax 8
9	Wax 9
10	Wax 10

The GREEN LOAD/SAVE indicates a successful read of the memory card.

6.3 Failure to LOAD/SAVE

If the system has an issue reading the Database from the memory card, then an error will occur.

Firstly the LOAD/SAVE buttons will illuminate RED, and then an alarm banner will be displayed with the fault code.

