



ALFA DISPENSER

Operational Manual

Installation, Calibration, Maintenance of ALFA dispensers and software

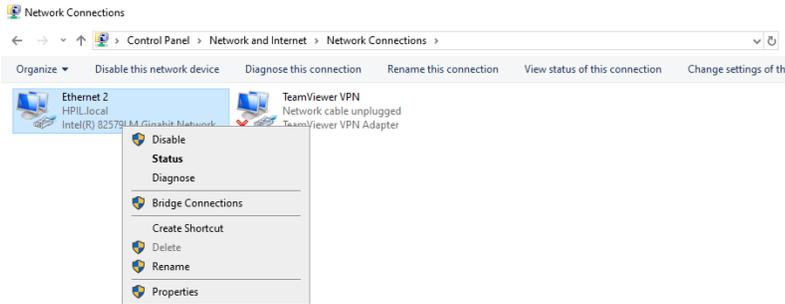
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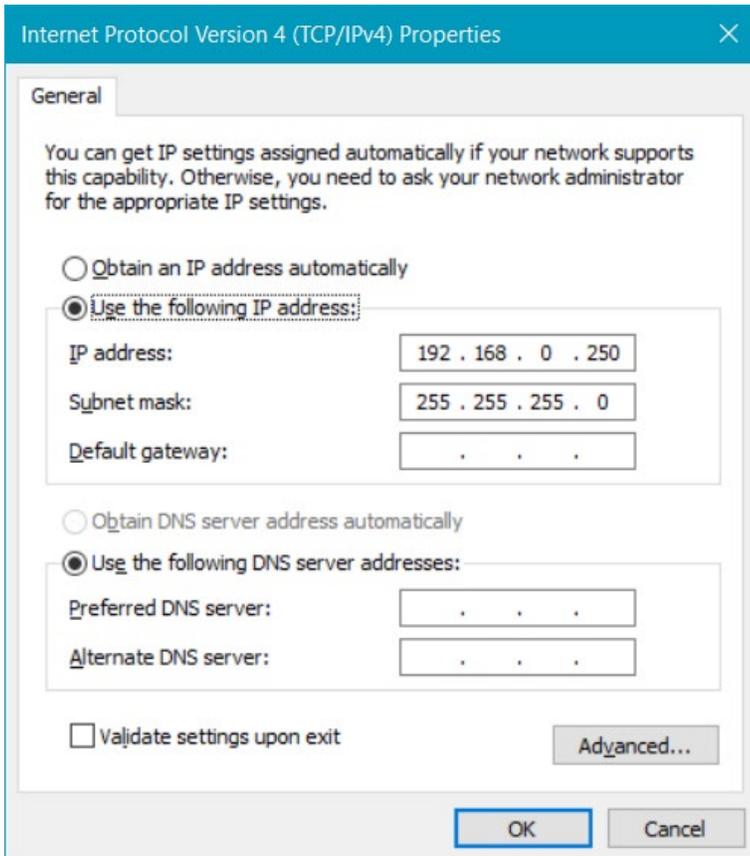
1. Laptop / PC IP Config

To connect direct to the alfa dispensers, the IP must be configured manually under Adapter Settings. Depending on the version Windows, this may be found in different locations. Ensure you are logged in as Admin before continuing.

Go to **Control Panel -> Network and Internet -> View Network Status ->** on the left side of the screen click **Change Adapter Settings**. Right click on **Ethernet2** and click **Properties**.



Double click **Internet Protocol Version 4 (TCP/IPv4)** from the list and enter the following settings.



3. Alfa Admin Home Screen

Connect the PC/Laptop to the 0.100 port on the back of the THOR and after ensuring the IP address has been set manually as above, open any web browser and type this IP Address into the address bar:

192.168.0.100/admin

Enter the user name and password: **alfadesk**

The admin home screen should then open. Take note of the canister assignments before continuing.

The screenshot displays the AlfaTint Admin v1.4.8 web interface. The top navigation bar includes the version number, a search bar, the date and time (Friday, 15th November 2019, 15:22 - America/Denver), and user information (Welcome, alfadesk, Change password, Log out). The main content area is titled "Home - Site administration" and features a sidebar with navigation options: Home, Administration, Customizations, Recipes, Local data, Cloud, Services, APIs, and Calibration. The primary section is "Pipes", which contains a table with columns for Pipe, Index, Pigment, Current level [cc], Min/max [cc], and Status flags. Below this is a "Dispensations" table with columns for Dispensation, Date modified, Description, Recipe, Type, Status, Package, and Size. The "Alarms" section shows a table with columns for Alarm, Date modified, Device name, Error code, and Error message. On the right side, there are three control panels: "Machine" (STANDBY) with buttons for Warm Reset, Cold Reset, Diagnostic Mode, and Autopurge; "Autocap" (CLOSED) with Open and Close buttons; and "Can presence" (ABSENT). Other panels for "Can lifter" and "Door" are partially visible at the bottom right.

Pipe	Index	Pigment	Current level [cc]	Min/max [cc]	Status flags
C1	8	R	1309.40	200 / 1500	🔌 🗑️ 🔄
C3	10	D	1446.80	200 / 1500	🔌 🗑️ 🔄
C4	11	AJXX	1446.90	200 / 3000	🔌 🗑️ 🔄
C5	12	E	1446.90	200 / 1500	🔌 🗑️ 🔄
C7	14	F	1441.90	200 / 1500	🔌 🗑️ 🔄
C8	15	G	1436.85	200 / 3000	🔌 🗑️ 🔄
C9	16	V	1436.90	200 / 1500	🔌 🗑️ 🔄
C11	18	AN	1441.90	200 / 1500	🔌 🗑️ 🔄
C12	19	KX	1446.90	200 / 3000	🔌 🗑️ 🔄
C13	20	RN	1451.90	200 / 1500	🔌 🗑️ 🔄
C15	22	C15	1456.00	200 / 1500	🔌 🗑️ 🔄
C16	23	R	1451.95	200 / 3000	🔌 🗑️ 🔄

Dispensation	Date modified	Description	Recipe	Type	Status	Package	Size
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Alarm	Date modified	Device name	Error code	Error message
832fec30-bbe1-492d-8f0a-3f64811e5874	Nov. 15, 2019, 11 a.m.	machine	255	"TOO LOW WATER LEVEL"
082214d0-fd9c-458b-99e3-889adcb1cbed	Nov. 14, 2019, 6:08 p.m.	machine	255	"TOO LOW WATER LEVEL"

4. Thor Calibration Procedure

To calibrate the Thor follow the below steps. Must be done from with-in the admin login. For each colourant/base, a calibration table must be created using preinstalled templates for the dispense speeds required. In our case we use 2 speeds, Single Stroke and Continuous.

- 4.1. Click on **Calibration** on the left side menu listing, then click **Tables** from the sub list
- 4.2. Click **+ Add Table** to create a new calibration table.

Table	Template	Profile	Pipe	Pigment	Speed [rpm]	Range [cc]	Last modified
<input type="checkbox"/>	C 1 high resolution	Thor High Resolution	Thor high resolution suction 40	C16	598	0.0 - 0.06	Aug. 5, 2019, 9:47 a.m.
<input type="checkbox"/>	C 1 continuous	Thor Continuous	Thor continuous suction 40	C16	600	10.0 - 1000.0	Aug. 5, 2019, 9:30 a.m.
<input type="checkbox"/>	C 1 single stroke	Thor Single stroke	Thor Single stroke suction 30	C16	599	0.06 - 10.0	Aug. 5, 2019, 9:14 a.m.

- 4.3. After clicking Add Table, ensure the **Description** has the correct canister/pipe assignment number with the corresponding colourant code.
- 4.4. Select the correct **Template**, **Profile** and **Pipe** from the respective dropdown menus.
- 4.5. Under **Data Acquisition Option**, uncheck the box **Leave unchecked to perform unassisted data acquisition**. This would allow the use of the scale manually (not connected to the dispenser).

General

Description: Untitled

Template: [dropdown]

Profile: [dropdown]

Pipe: [dropdown]

Speed: [input] [rpm]

Min. volume: 0.0 [input] [cc]

Max. volume: 0.0 [input] [cc]

Pigment

Pigment: [input]

Specific weight: 0.0 [input] Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0 [input]

Purge steps per cycle: 0 [input]

Data Acquisition Options

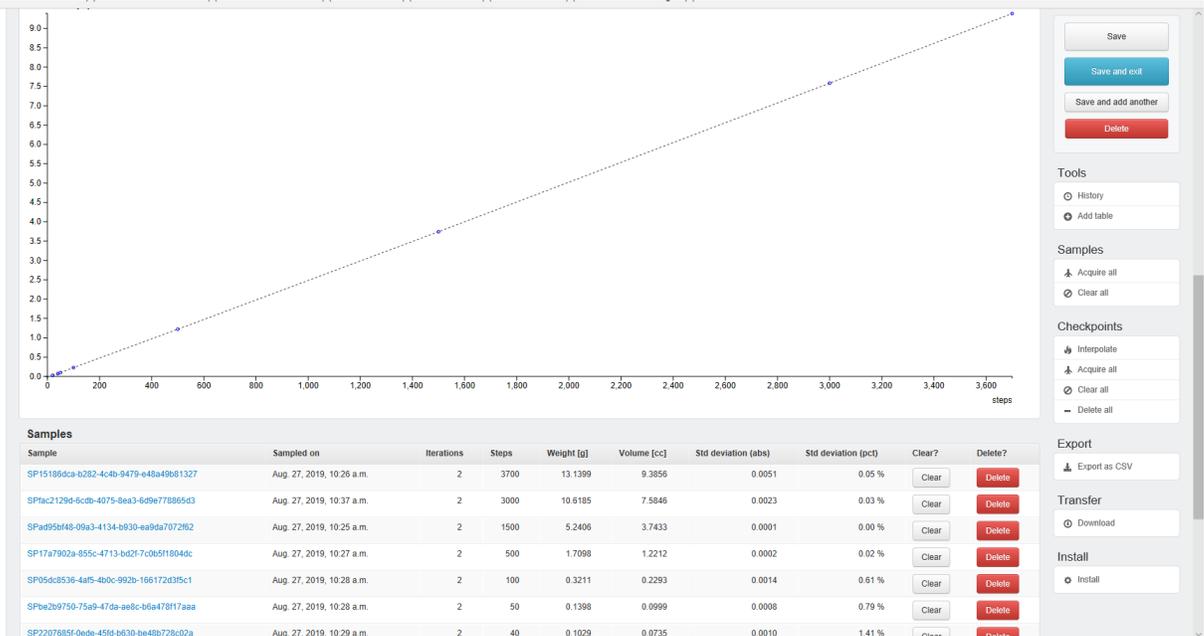
Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [input] [msec]

Execution: Sequential forward [dropdown] Order of execution for weight measurements.

- 4.6. Use the settings on the following pages for each Colorant and pump speed. Be sure to have the correct canister/pipe assignment number with the corresponding colourant code.
- 4.7. Click **Save and add another** to add the next table. Click **Save and exit** after adding the last table

- 4.8. Once the tables are created, go back to the **Tables** screen and select the first table to be calibrated by clicking the table name under the **Table** column.
- 4.9. Once the correct Table is selected, under **Samples** on the right-side menu list, click **Acquire All** to begin the calibration of that table.
- 4.10. After calibration is completed scroll down and click **Install** from the right-side menu list



- 4.11. Click **Save and exit** after completing each table.

NB: These steps must be done for each table created.

5. Calibration Table Settings

5.1. Black (B) Colourant Settings

C1 - B - Single Stroke

AlfaTint Admin v1.4.12 | Wednesday, 20th November 2019 13:38 - AmericanBarbados | Welcome, alfadeak | Change password | Log out

Home > Client > Tables > C 1 single stroke

General

Description: C 1 single stroke

Template: Thor Single stroke

Profile: Thor Single stroke suction 10

Pipe: C1

Speed: 599 [rpm]

Min. volume: 0.0 [cc]

Max. volume: 10.0 [cc]

Pigment

Pigment: [Black B]

Specific weight: 1.400000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save

Save and exit

Save and add another

Delete

Tools

History

Add table

Samples

Acquire all

Clear all

Checkpoints

Interpolate

Acquire all

Clear all

Delete all

Export

Export as CSV

Transfer

Download

C1 - B - Continuous

AlfaTint Admin v1.4.12 | Wednesday, 20th November 2019 13:39 - AmericanBarbados | Welcome, alfadeak | Change password | Log out

Home > Client > Tables > C 1 continuous

General

Description: C 1 continuous

Template: Thor Continuous

Profile: Thor continuous suction 20

Pipe: C1

Speed: 600 [rpm]

Min. volume: 10.0 [cc]

Max. volume: 1500.0 [cc]

Pigment

Pigment: [Black B]

Specific weight: 1.400000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save

Save and exit

Save and add another

Delete

Tools

History

Add table

Samples

Acquire all

Clear all

Checkpoints

Interpolate

Acquire all

Clear all

Delete all

Export

Export as CSV

Transfer

Download

5.2. Green (D) Colourant Settings

C3 - D - Single Stroke

AlfaTint Admin v1.4.12 Wednesday, 20th November 2019 13:42 - AmericanBarbados Welcome, alfadesk Change password | Log out

Home » Client » Tables » C3 single stroke

General

Description: C3 single stroke

Template: Thor Single stroke

Profile: Thor Single stroke suction 20

Pipe: C3

Speed: 599 [rpm]

Min. volume: 0.0 [cc]

Max. volume: 10.0 [cc]

Pigment

Pigment: D

Specific weight: 1.440000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save

Save and exit

Save and add another

Delete

Tools

History

Add table

Samples

Acquire all

Clear all

Checkpoints

Interpolate

Acquire all

Clear all

Delete all

Export

Export as CSV

Transfer

Download

C3 - D - Continuous

AlfaTint Admin v1.4.12 Wednesday, 20th November 2019 13:45 - AmericanBarbados Welcome, alfadesk Change password | Log out

Home » Client » Tables » C3 continuous

General

Description: C3 continuous

Template: Thor Continuous

Profile: Thor continuous suction 20

Pipe: C3

Speed: 600 [rpm]

Min. volume: 10.0 [cc]

Max. volume: 1500.0 [cc]

Pigment

Pigment: D

Specific weight: 1.440000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save

Save and exit

Save and add another

Delete

Tools

History

Add table

Samples

Acquire all

Clear all

Checkpoints

Interpolate

Acquire all

Clear all

Delete all

Export

Export as CSV

Transfer

Download

5.3. Organic Yellow (AXX) Colourant Settings

C4 - AXX - Single Stroke

The screenshot shows the AlfaTint Admin v1.4.12 interface for configuring a 'C4 single stroke' table. The page is divided into several sections: General, Pigment, Purge, and Data Acquisition Options. The General section includes fields for Description, Template, Profile, Pipe, Speed, Min. volume, and Max. volume. The Pigment section shows the pigment as 'AXX' with a specific weight of 1.410000. The Purge section has checkboxes for 'Purge' and 'Assisted', and input fields for 'Purge cycles' and 'Purge steps per cycle'. The Data Acquisition Options section includes 'Assisted', 'Delay before weighing', and 'Execution' settings. On the right side, there are buttons for 'Save', 'Save and exit', 'Save and add another', and 'Delete', along with sections for 'Tools', 'Samples', 'Checkpoints', 'Export', and 'Transfer'.

AlfaTint Admin v1.4.12 | Wednesday, 20th November 2019 13:46 - America/Barbados | Welcome, atfdesk | Change password | Log out

Home > Client > Tables > C 4 single stroke

General

Description: C 4 single stroke

Template: Thor Single stroke

Profile: Thor Single stroke suction 20

Pipe: C4

Speed: 599 [rpm]

Min. volume: 0.0 [cc]

Max. volume: 10.0 [cc]

Pigment

Pigment: AXX

Specific weight: 1.410000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save

Save and exit

Save and add another

Delete

Tools

History

Add table

Samples

Acquire all

Clear all

Checkpoints

Interpolate

Acquire all

Clear all

Delete all

Export

Export as CSV

Transfer

Download

C4 - AXX - Continuous

The screenshot shows the AlfaTint Admin v1.4.12 interface for configuring a 'C4 continuous' table. The page is divided into several sections: General, Pigment, Purge, and Data Acquisition Options. The General section includes fields for Description, Template, Profile, Pipe, Speed, Min. volume, and Max. volume. The Pigment section shows the pigment as 'AXX' with a specific weight of 1.410000. The Purge section has checkboxes for 'Purge' and 'Assisted', and input fields for 'Purge cycles' and 'Purge steps per cycle'. The Data Acquisition Options section includes 'Assisted', 'Delay before weighing', and 'Execution' settings. On the right side, there are buttons for 'Save', 'Save and exit', 'Save and add another', and 'Delete', along with sections for 'Tools', 'Samples', 'Checkpoints', 'Export', and 'Transfer'.

AlfaTint Admin v1.4.12 | Wednesday, 20th November 2019 13:48 - America/Barbados | Welcome, atfdesk | Change password | Log out

Home > Client > Tables > C 4 continuous

General

Description: C 4 continuous

Template: Thor Continuous

Profile: Thor continuous suction 30

Pipe: C4

Speed: 600 [rpm]

Min. volume: 10.0 [cc]

Max. volume: 1500.0 [cc]

Pigment

Pigment: AXX

Specific weight: 1.410000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save

Save and exit

Save and add another

Delete

Tools

History

Add table

Samples

Acquire all

Clear all

Checkpoints

Interpolate

Acquire all

Clear all

Delete all

Export

Export as CSV

Transfer

Download

5.4. Blue (E) Colourant Settings

C5 - E - Single Stroke

AlfaTint Admin v1.4.12 | Wednesday, 20th November 2019 13:49 - America/Barbados | Welcome, alfadesk | Change password | Log out

Home » Client » Tables » C 5 single stroke

General

Description: C 5 single stroke

Template: Thor Single stroke

Profile: Thor Single stroke suction 30

Pipe: C5

Speed: 599 [rpm]

Min. volume: 0.0 [cc]

Max. volume: 10.0 [cc]

Pigment

Pigment: Blue (E)

Specific weight: 1.390000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save

Save and exit

Save and add another

Delete

Tools

History

Add table

Samples

Acquire all

Clear all

Checkpoints

Interpolate

Acquire all

Clear all

Delete all

Export

Export as CSV

Transfer

Download

C5 - E - Continuous

AlfaTint Admin v1.4.12 | Wednesday, 20th November 2019 13:51 - America/Barbados | Welcome, alfadesk | Change password | Log out

Home » Client » Tables » C 5 continuous

General

Description: C 5 continuous

Template: Thor Continuous

Profile: Thor continuous suction 30

Pipe: C5

Speed: 600 [rpm]

Min. volume: 10.0 [cc]

Max. volume: 1500.0 [cc]

Pigment

Pigment: Blue (E)

Specific weight: 1.390000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save

Save and exit

Save and add another

Delete

Tools

History

Add table

Samples

Acquire all

Clear all

Checkpoints

Interpolate

Acquire all

Clear all

Delete all

Export

Export as CSV

Transfer

Download

5.5. Red Oxide (F) Colourant Settings

C7 - F - Single Stroke

AlfaTint Admin v1.4.12 Wednesday, 20th November 2019 13:33 - America/Barbados Welcome, atafadeak Change password | Log out

Home » Client » Tables » C7 single stroke

Home
Administration
Customizations
Recipes
Local data
Cloud
Services
APIs
Calibration
Tables
Points
Profiles
Templates

General

Description: C7 single stroke
Template: Thor Single stroke
Profile: Thor Single stroke suction 30
Pipe: C7
Speed: 599 [rpm]
Min. volume: 0.0 [cc]
Max. volume: 10.0 [cc]

Pigment

Pigment: ■ F
Specific weight: 2.000000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.
Purge cycles: 0
Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.
Delay before weighing: 2500 [msec]
Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save
Save and exit
Save and add another
Delete

Tools

History
Add table

Samples

Acquire all
Clear all

Checkpoints

Interpolate
Acquire all
Clear all
Delete all

Export

Export as CSV

Transfer

Download

C7 - F - Continuous

AlfaTint Admin v1.4.12 Wednesday, 20th November 2019 13:33 - America/Barbados Welcome, atafadeak Change password | Log out

Home » Client » Tables » C7 continuous

Home
Administration
Customizations
Recipes
Local data
Cloud
Services
APIs
Calibration
Tables
Points
Profiles
Templates

General

Description: C7 continuous
Template: Thor Continuous
Profile: Thor continuous suction 30
Pipe: C7
Speed: 600 [rpm]
Min. volume: 10.0 [cc]
Max. volume: 1500.0 [cc]

Pigment

Pigment: ■ F
Specific weight: 2.000000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.
Purge cycles: 0
Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.
Delay before weighing: 2500 [msec]
Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save
Save and exit
Save and add another
Delete

Tools

History
Add table

Samples

Acquire all
Clear all

Checkpoints

Interpolate
Acquire all
Clear all
Delete all

Export

Export as CSV

Transfer

Download

5.6. Yellow Oxide (C) Colourant Settings

C8 - C - Single Stroke

AlfaTint Admin v1.4.12 | Wednesday, 20th November 2019 13:54 - America/Barbados | Welcome, alfadesk | Change password | Log out

Home > Client > Tables > C 8 single stroke

Home Administration Customizations Recipes Local data Cloud Services APIs Calibration Tables Points Profiles Templates

General

Description: C 8 single stroke

Template: Thor Single stroke

Profile: Thor Single stroke suction 40

Pipe: C8

Speed: 599 [rpm]

Min. volume: 0.0 [cc]

Max. volume: 10.0 [cc]

Pigment

Pigment: C

Specific weight: 1.940000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save Save and exit Save and add another Delete

Tools History Add table

Samples Acquire all Clear all

Checkpoints Interpolate Acquire all Clear all Delete all

Export Export as CSV

Transfer Download

C8 - C - Continuous

AlfaTint Admin v1.4.12 | Wednesday, 20th November 2019 13:56 - America/Barbados | Welcome, alfadesk | Change password | Log out

Home > Client > Tables > C 8 continuous

Home Administration Customizations Recipes Local data Cloud Services APIs Calibration Tables Points Profiles Templates

General

Description: C 8 continuous

Template: Thor Continuous

Profile: Thor continuous suction 40

Pipe: C8

Speed: 600 [rpm]

Min. volume: 10.0 [cc]

Max. volume: 1500.0 [cc]

Pigment

Pigment: C

Specific weight: 1.940000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Save Save and exit Save and add another Delete

Tools History Add table

Samples Acquire all Clear all

Checkpoints Interpolate Acquire all Clear all Delete all

Export Export as CSV

Transfer Download

http://10.3.104.100/admin/client/calibrationtable/add/ ?e

5.7. Magenta (V) Colourant Settings

C9 - V - Single Stroke

AlfaTint Admin v1.4.12 Wednesday, 20th November 2019 14:30 - America/Barbados Welcome, alfadesk Change password | Log out

Home > Client > Tables > C 11 single stroke

Home Administration Customizations Recipes Local data Cloud Services APIs Calibration Tables Points Profiles Templates

General

Description: C 11 single stroke

Template: Thor Single stroke

Profile: Thor Single stroke suction 40

Pipe: C11

Speed: 599 [rpm]

Min. volume: 0.0 [cc]

Max. volume: 10.0 [cc]

Pigment

Pigment: V

Specific weight: 1.300000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save Save and exit Save and add another Delete

Tools History Add table

Samples Acquire all Clear all

Checkpoints Interpolate Acquire all Clear all Delete all

Export Export as CSV

Transfer Download

C9 - V - Continuous

AlfaTint Admin v1.4.12 Wednesday, 20th November 2019 14:32 - America/Barbados Welcome, alfadesk Change password | Log out

Home > Client > Tables > C 11 continuous

Home Administration Customizations Recipes Local data Cloud Services APIs Calibration Tables Points Profiles Templates

General

Description: C 11 continuous

Template: Thor Continuous

Profile: Thor continuous suction 40

Pipe: C11

Speed: 600 [rpm]

Min. volume: 10.0 [cc]

Max. volume: 1500.0 [cc]

Pigment

Pigment: V

Specific weight: 1.300000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save Save and exit Save and add another Delete

Tools History Add table

Samples Acquire all Clear all

Checkpoints Interpolate Acquire all Clear all Delete all

Export Export as CSV

Transfer Download

5.8. Ext. Yellow (AN) Colourant Settings

C11 - AN - Single Stroke

AlfaTint Admin v1.4.12 Wednesday, 20th November 2019 14:33 - America/Barbados Welcome, alfadesk Change password | Log out

Home > Client > Tables > C 13 single stroke

Home Administration Customizations Recipes Local data Cloud Services APIs Calibration Tables Points Profiles Templates

General

Description: C 13 single stroke

Template: Thor Single stroke

Profile: Thor Single stroke suction 20

Pipe: C13

Speed: 599 [rpm]

Min. volume: 0.0 [cc]

Max. volume: 10.0 [cc]

Pigment

Pigment: AN

Specific weight: 1.610000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save Save and exit Save and add another Delete

Tools History Add table

Samples Acquire all Clear all

Checkpoints Interpolate Acquire all Clear all Delete all

Export Export as CSV

Transfer Download

C11 - AN - Continuous

AlfaTint Admin v1.4.12 Wednesday, 20th November 2019 14:33 - America/Barbados Welcome, alfadesk Change password | Log out

Home > Client > Tables > C 13 continuous

Home Administration Customizations Recipes Local data Cloud Services APIs Calibration Tables Points Profiles Templates

General

Description: C 13 continuous

Template: Thor Continuous

Profile: Thor continuous suction 30

Pipe: C13

Speed: 600 [rpm]

Min. volume: 10.0 [cc]

Max. volume: 1500.0 [cc]

Pigment

Pigment: AN

Specific weight: 1.610000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save Save and exit Save and add another Delete

Tools History Add table

Samples Acquire all Clear all

Checkpoints Interpolate Acquire all Clear all Delete all

Export Export as CSV

Transfer Download

5.9. Titanium White (KX) Colourant Settings

C12 - KX - Single Stroke

AlfaTint Admin v1.4.8 | Wednesday, 27th November 2019 09:29 - America/Barbados | Welcome, attadesk | Change password | Log out

Home > Client > Tables | **C12 single stroke**

Home Administration Customizations Recipes Local data Cloud Services APIs Calibration Tables Points Profiles Templates

General

Description: C12 single stroke

Template: Thor Single stroke

Profile: Thor Single stroke suction 40

Pipe: C12

Speed: 599 [rpm]

Min. volume: 0.0 [cc]

Max. volume: 10.0 [cc]

Pigment

Pigment: KX

Specific weight: 2.050000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save Save and exit Save and add another Delete

Tools History Add table

Samples Acquire all Clear all

Checkpoints Interpolate Acquire all Clear all Delete all

Export Export as CSV

Transfer Download

C11 - KX – Continuos

AlfaTint Admin v1.4.8 | Wednesday, 27th November 2019 09:31 - America/Barbados | Welcome, attadesk | Change password | Log out

Home > Client > Tables | **C12 continous**

Home Administration Customizations Recipes Local data Cloud Services APIs Calibration Tables Points Profiles Templates

General

Description: C12 continous

Template: Thor Continous

Profile: Thor continous suction 40

Pipe: C12

Speed: 600 [rpm]

Min. volume: 10.0 [cc]

Max. volume: 1500.0 [cc]

Pigment

Pigment: KX

Specific weight: 2.050000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save Save and exit Save and add another Delete

Tools History Add table

Samples Acquire all Clear all

Checkpoints Interpolate Acquire all Clear all Delete all

Export Export as CSV

Transfer Download

5.10. Ext. Red (RN) Colourant Settings

C13 - RN - Single Stroke

AlfaTint Admin v1.4.12 | Wednesday, 20th November 2019 14:03 - America/Barbados | Welcome, atafelrek | Change password | Log out

Home > Client > Tables > C 15 single stroke

General

Description: C 15 single stroke

Template: Thor Single stroke

Profile: Thor Single Stroke suction 80

Pipe: C15

Speed: 599 [rpm]

Min. volume: 0.0 [cc]

Max. volume: 10.0 [cc]

Pigment

Pigment: ■ RN

Specific weight: 1.320000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save

Save and exit

Save and add another

Delete

Tools

History

Add table

Samples

Acquire all

Clear all

Checkpoints

Interpolate

Acquire all

Clear all

Delete all

Export

Export as CSV

Transfer

Download

C13 - RN - Continuous

AlfaTint Admin v1.4.12 | Wednesday, 20th November 2019 14:04 - America/Barbados | Welcome, atafelrek | Change password | Log out

Home > Client > Tables > C 15 continuous

General

Description: C 15 continuous

Template: Thor Continuous

Profile: Thor continuous suction 80

Pipe: C15

Speed: 600 [rpm]

Min. volume: 10.0 [cc]

Max. volume: 1500.0 [cc]

Pigment

Pigment: ■ RN

Specific weight: 1.320000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save

Save and exit

Save and add another

Delete

Tools

History

Add table

Samples

Acquire all

Clear all

Checkpoints

Interpolate

Acquire all

Clear all

Delete all

Export

Export as CSV

Transfer

Download

5.11. Organic Red (R) Colourant Settings

C16 - R - Single Stroke

AlfaTint Admin v1.4.12 | Wednesday, 20th November 2019 13:58 - America/Barbados | Welcome, alfadesk | Change password | Log out

Home > Client > Tables > C 9 single stroke

Home Administration Customizations Recipes Local data Cloud Services APIs Calibration Tables Points Profiles Templates

General

Description: C 9 single stroke

Template: Thor Single stroke

Profile: Thor Single Stroke suction 50

Pipe: C9

Speed: 599 [rpm]

Min. volume: 0.0 [cc]

Max. volume: 10.0 [cc]

Pigment

Pigment: Organic Red (R)

Specific weight: 1.420000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save Save and exit Save and add another Delete

Tools History Add table

Samples Acquire all Clear all

Checkpoints Interpolate Acquire all Clear all Delete all

Export Export as CSV

Transfer Download

C16 - R - Continuous

AlfaTint Admin v1.4.12 | Wednesday, 20th November 2019 13:59 - America/Barbados | Welcome, alfadesk | Change password | Log out

Home > Client > Tables > C 9 continuoos

Home Administration Customizations Recipes Local data Cloud Services APIs Calibration Tables Points Profiles Templates

General

Description: C 9 continuoos

Template: Thor Continuous

Profile: Thor continuous suction 50

Pipe: C9

Speed: 600 [rpm]

Min. volume: 10.0 [cc]

Max. volume: 1500.0 [cc]

Pigment

Pigment: Organic Red (R)

Specific weight: 1.420000 Normalized to 1.0

Purge

Purge: Leave unchecked to skip purge at the beginning of a data acquisition session.

Purge cycles: 0

Purge steps per cycle: 0

Data Acquisition Options

Assisted: Leave unchecked to perform unassisted data acquisition.

Delay before weighing: 2500 [msec]

Execution: Sequential forward Order of execution for weight measurements.

Characteristic curve

Save Save and exit Save and add another Delete

Tools History Add table

Samples Acquire all Clear all

Checkpoints Interpolate Acquire all Clear all Delete all

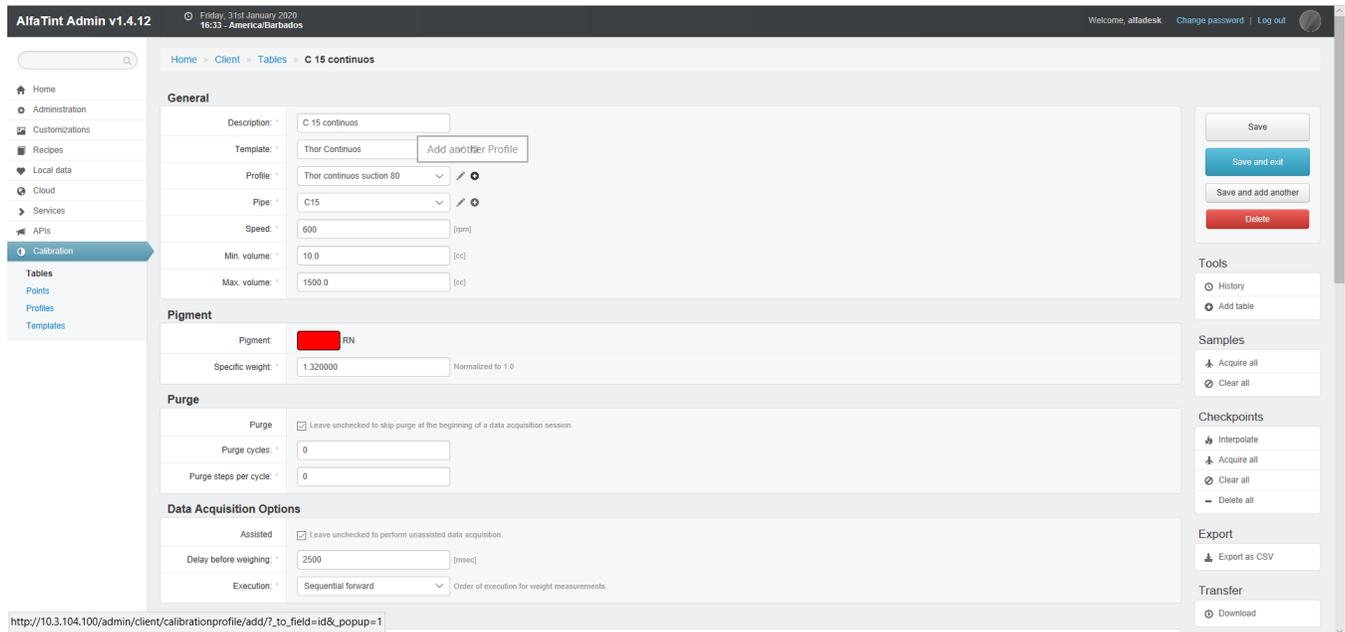
Export Export as CSV

Transfer Download

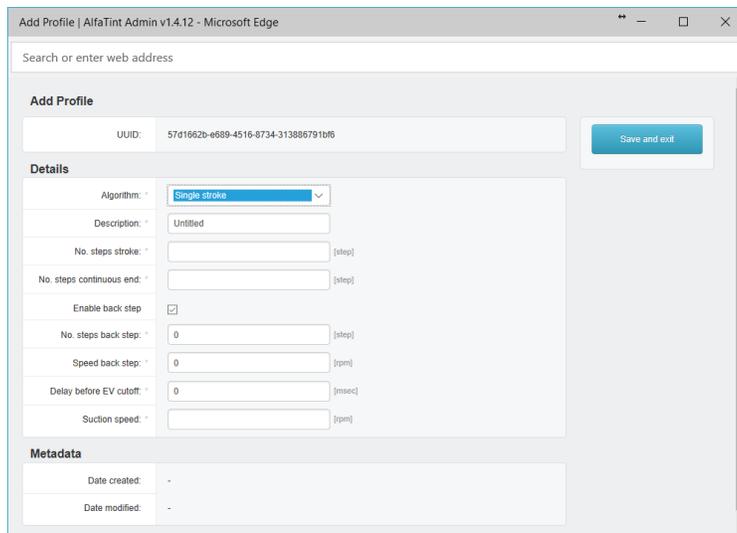
6. Adding Pump Profiles

If any of the required profiles for the settings above are missing, for example some dispensers did not have the Thor continuous suction 80 profile installed which is to be used for the RN, use the steps below to add a new profile.

Click the **+** sign next to the **Profile** dropdown list. It should say **Add another profile** if highlighted.



The below window should pop up. Enter the following info:



Algorithm: **Single Stroke / Asymmetrical Continuous**

*dependent on Single Stroke or Continuous config.

Description: **eg. Thor Continuous Suction 80**

No. steps stroke: **3700**

No. Steps continuous end: **0**

Enable step back: **ticked**

No step back step: **80** *this is what determines the suction number in the description.

Speed back step: **100**

Delay before EV cutoff: **0**

Suction speed: **600**

Then click **Save and exit** to add the created profile and return to the pump setup screen. Select the added profile and continue as above.

7. Assigning the Tables to the Canisters/Pipes

After creating the tables and the calibrations, each table then needs to be assigned to its respective canister.

- 4.12. Click on **Home** to return to the Home screen then the Pipe number for the canister you want to assign the tables to.

- 4.13. Scroll down to Calibrations Tables and select the correct table from the list on the left (**Available Installed Tables**) and click the arrow in the middle to add to the list on the right (**Chosen Installed Tables**). Each pipe must have 2 tables chosen as shown below. Continuous and Single Stroke.

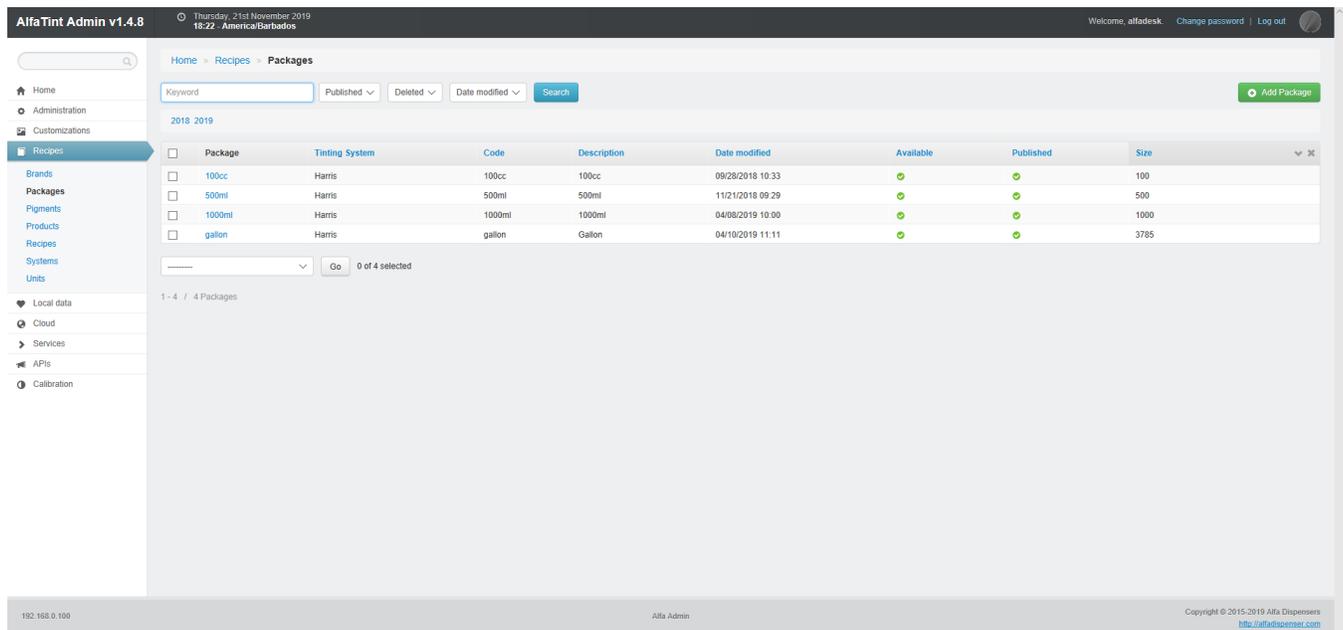
- 4.14. Also verify the other configuration parameters are entered as shown below.

- 4.15. Click **SAVE** and **EXIT** to continue. Repeat for each canister/pipe.

8. Adding Can Sizes

Last task to be completed is to add the can sizes. This is to ensure the correct can sizes are available within **Alfa Tint**.

4.16. Click on **Recipes** and then **Packages**

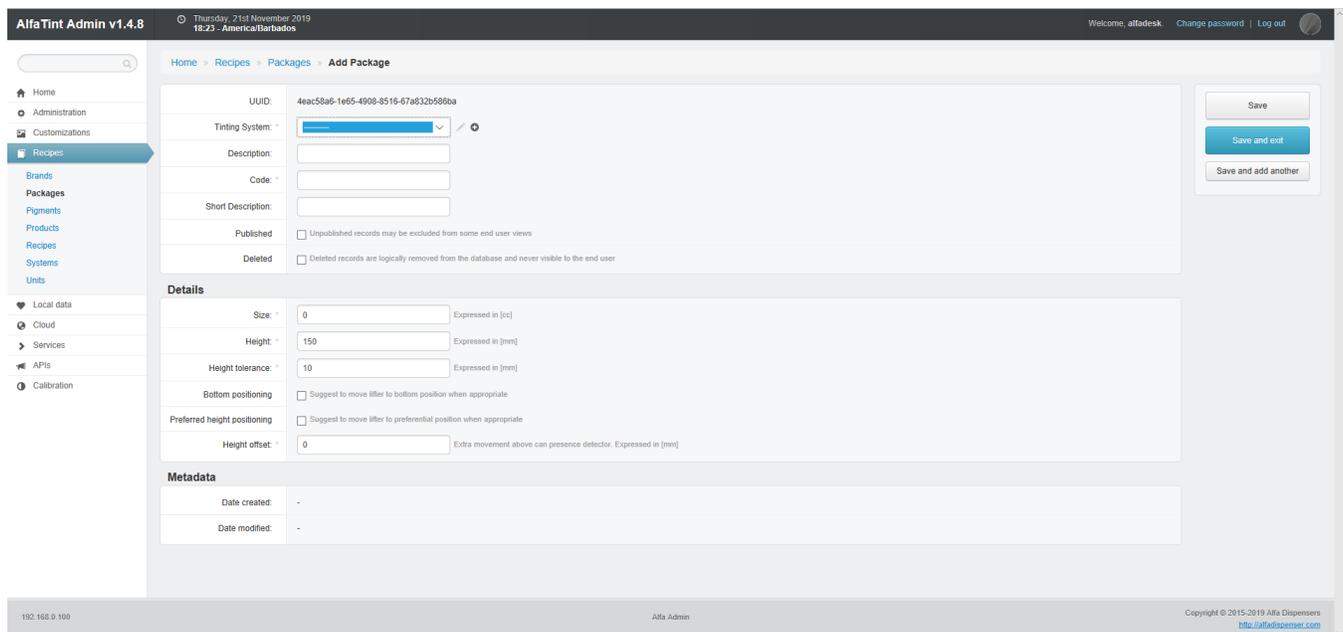


The screenshot shows the AlfaTint Admin v1.4.8 interface. The breadcrumb navigation is Home > Recipes > Packages. A search bar is present with filters for Published, Deleted, and Date modified. A table lists the following packages:

Package	Tinting System	Code	Description	Date modified	Available	Published	Size
100cc	Harris	100cc	100cc	09/28/2018 10:33	Yes	Yes	100
500ml	Harris	500ml	500ml	11/21/2018 09:29	Yes	Yes	500
1000ml	Harris	1000ml	1000ml	04/08/2019 10:00	Yes	Yes	1000
gallon	Harris	gallon	Gallon	04/10/2019 11:11	Yes	Yes	3785

At the bottom of the table, it shows '0 of 4 selected' and '1 - 4 / 4 Packages'.

4.17. Click **Add Package** and the following would open



The screenshot shows the AlfaTint Admin v1.4.8 interface with the 'Add Package' form open. The breadcrumb navigation is Home > Recipes > Packages > Add Package. The form contains the following fields and options:

- UUID: 4eac58a6-1e65-4900-8516-67a832b586ba
- Tinting System: [Dropdown menu]
- Description: [Text input]
- Code: [Text input]
- Short Description: [Text input]
- Published: Unpublished records may be excluded from some end user views
- Deleted: Deleted records are logically removed from the database and never visible to the end user
- Details section:
 - Size: [Text input] Expressed in [cc]
 - Height: [Text input] Expressed in [mm]
 - Height tolerance: [Text input] Expressed in [mm]
 - Bottom positioning: Suggest to move filler to bottom position when appropriate
 - Preferred height positioning: Suggest to move filler to preferential position when appropriate
 - Height offset: [Text input] (Extra movement above can presence detector. Expressed in [mm])
- Metadata section:
 - Date created: -
 - Date modified: -

On the right side of the form, there are three buttons: 'Save', 'Save and exit', and 'Save and add another'.

- 4.18. Enter the below information for each can size we carry. Quart, Gallon and 5 Gallon. Be sure to enter the information exactly as shown below and click **Save and add another** after adding each can size.

Quart Settings

AlfaTint Admin v1.4.12 Thursday, 21st November 2019 16:19 - America/Barbados Welcome, atfadesk Change password Log out

Home » Recipes » Packages » Quart

Package: Quart

UUID: 343b8a81-1f78-4b7f-9f5f-9e0bb7a39d9f

Tinting System: Harris

Description: Quart

Code: Quart

Short Description:

Published: Unpublished records may be excluded from some end user views

Deleted: Deleted records are logically removed from the database and never visible to the end user

Details

Size: 945 Expressed in [cc]

Height: 123 Expressed in [mm]

Height tolerance: 15 Expressed in [mm]

Bottom positioning: Suggest to move letter to bottom position when appropriate

Preferred height positioning: Suggest to move letter to preferential position when appropriate

Height offset: 7 Extra movement above can presence detector. Expressed in [mm]

Metadata

Date created: Nov. 21, 2018, 9:33 a.m.

Date modified: Oct. 10, 2019, 8:28 p.m.

Save

Save and exit

Save and add another

Delete

Tools

History

Add Package

192.168.0.100 Alfa Admin Copyright © 2015-2019 Alfa Dispensers <http://alfadispenser.com>

Gallon Settings

AlfaTint Admin v1.4.12 Thursday, 21st November 2019 16:19 - America/Barbados Welcome, atfadesk Change password Log out

Home » Recipes » Packages » Gallon

Package: Gallon

UUID: c2187b54-4d77-4ab0-af95-07c05f09f7ea

Tinting System: Harris

Description: Gallon

Code: Gallon

Short Description:

Published: Unpublished records may be excluded from some end user views

Deleted: Deleted records are logically removed from the database and never visible to the end user

Details

Size: 3785 Expressed in [cc]

Height: 190 Expressed in [mm]

Height tolerance: 15 Expressed in [mm]

Bottom positioning: Suggest to move letter to bottom position when appropriate

Preferred height positioning: Suggest to move letter to preferential position when appropriate

Height offset: 7 Extra movement above can presence detector. Expressed in [mm]

Metadata

Date created: April 10, 2019, 11:11 a.m.

Date modified: Oct. 10, 2019, 8:28 p.m.

Save

Save and exit

Save and add another

Delete

Tools

History

Add Package

192.168.0.100 Alfa Admin Copyright © 2015-2019 Alfa Dispensers <http://alfadispenser.com>

5 Gallon Settings

AlfaTint Admin v1.4.12 Thursday, 21st November 2019 18:20 America/Barbados Welcome, alfadesk. [Change password](#) | [Log out](#)

Home > Recipes > Packages > 5 Gallon

Package: 5 Gallon

UUID: c82a7ac9-526f-4516-a384-605d5225e1e7

Tinting System: Harris

Description:

Code:

Short Description:

Published: Unpublished records may be excluded from some end user views

Deleted: Deleted records are logically removed from the database and never visible to the end user

Details

Size: Expressed in [µl]

Height: Expressed in [mm]

Height tolerance: Expressed in [mm]

Bottom positioning: Suggest to move filler to bottom position when appropriate

Preferred height positioning: Suggest to move filler to preferential position when appropriate

Height offset: Extra movement above can presence detector. Expressed in [mm]

Metadata

Date created: Aug. 30, 2019, 3:14 p.m.

Date modified: Oct. 10, 2019, 8:28 p.m.

Tools

History

Add Package

9. Using ALFA TINT

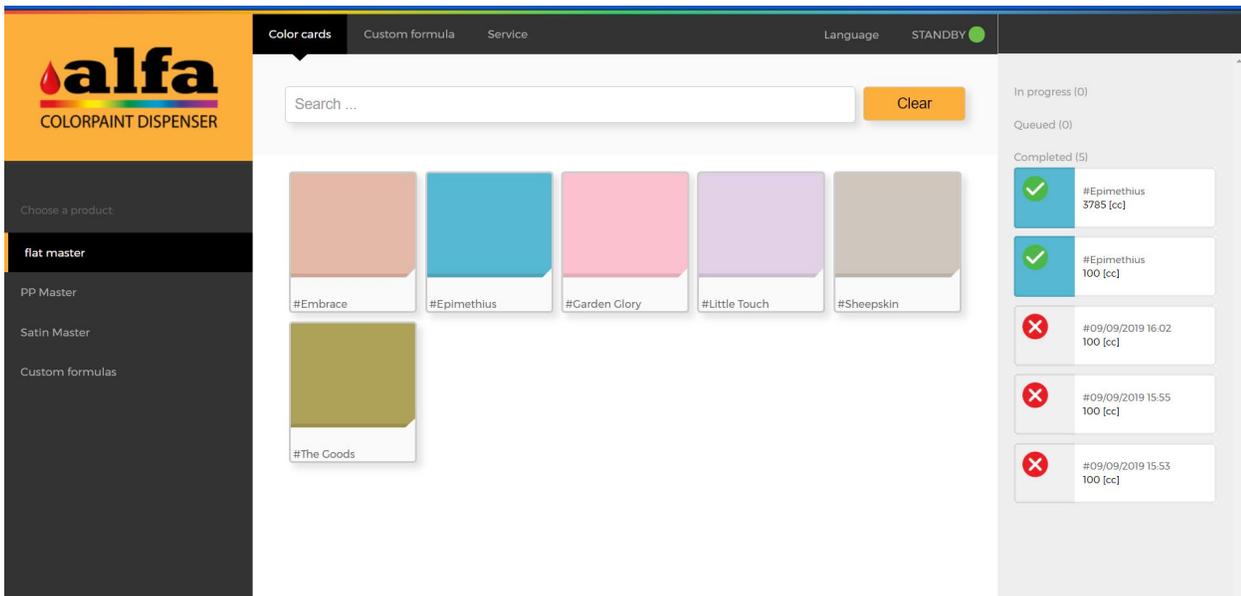
Each ALFA dispenser has its own onboard Linux PC which drives the dispenser and its onboard software can be accessed with any web browser. The computer on the dispenser already has the address set as the default and once the browser is opened it will automatically take you to its startup page. If the page does not load automatically, type this into the address bar of the browser:

192.168.0.100

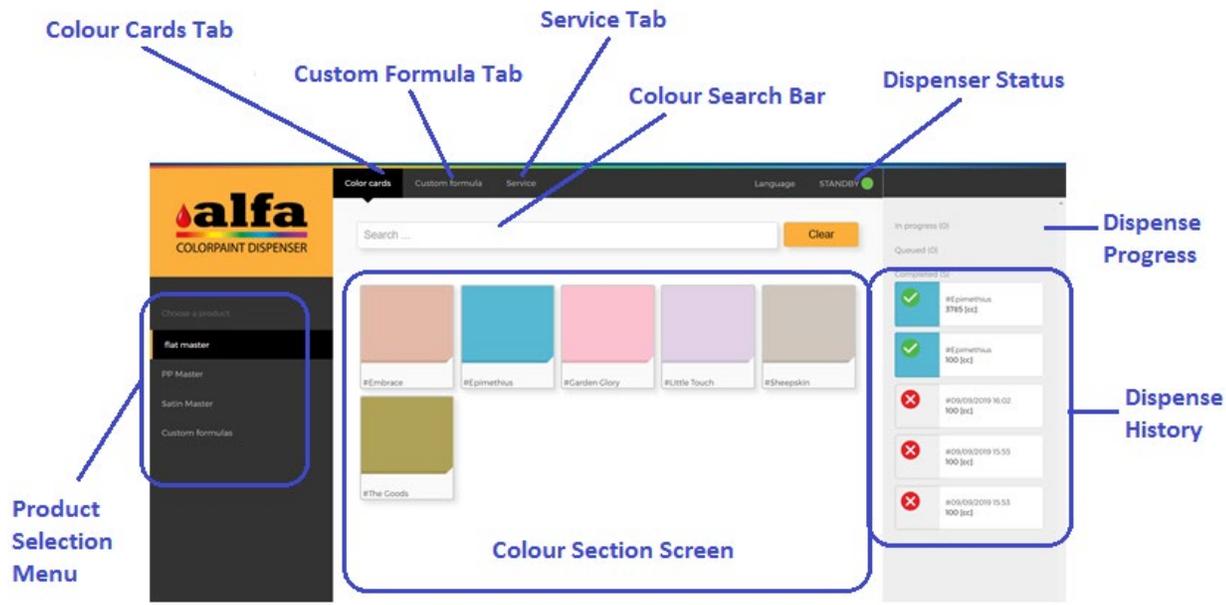
Formulas can be dispensed directly from the ALFA Tint software or from ColorDesigner Plus. During the initial testing period, the existing Ulttima Plus bases must be tinted using ColorDesigner Plus and ONLY the Master Products and bases should be dispensed using ALFA Tint.



Once loaded, the screen should look like this.



11.1. Main Screen Options



Product Selection Menu –

Used to select the product type to be dispensed. Currently only setup to use Satin Emulsion, Exterior Flat Emulsion and Porch & Patio Acrylic Enamel Master products.

Colour Card Tab -

Used to bring up this main screen for tinting.

Custom Formula Tab -

Used to create custom formulations.

Service Tab -

Used to access the service functions of the dispenser. Also used to adjust the colourant fill, purge and reset options.

Dispenser Status -

Displays dispenser status.

STANDBY – Green - Normal condition

ALARM – RED - Dispenser error present and needs to be reset

DIAGNOSTIC – Yellow - Service mode.

RESET – Yellow - Reset in progress.

Colour Search Bar -

Smart search for Colour Name.

Colour Selection Screen -

Display of available Colours to be dispensed.

Dispense Progress -

Displays status of current colour being dispensed.

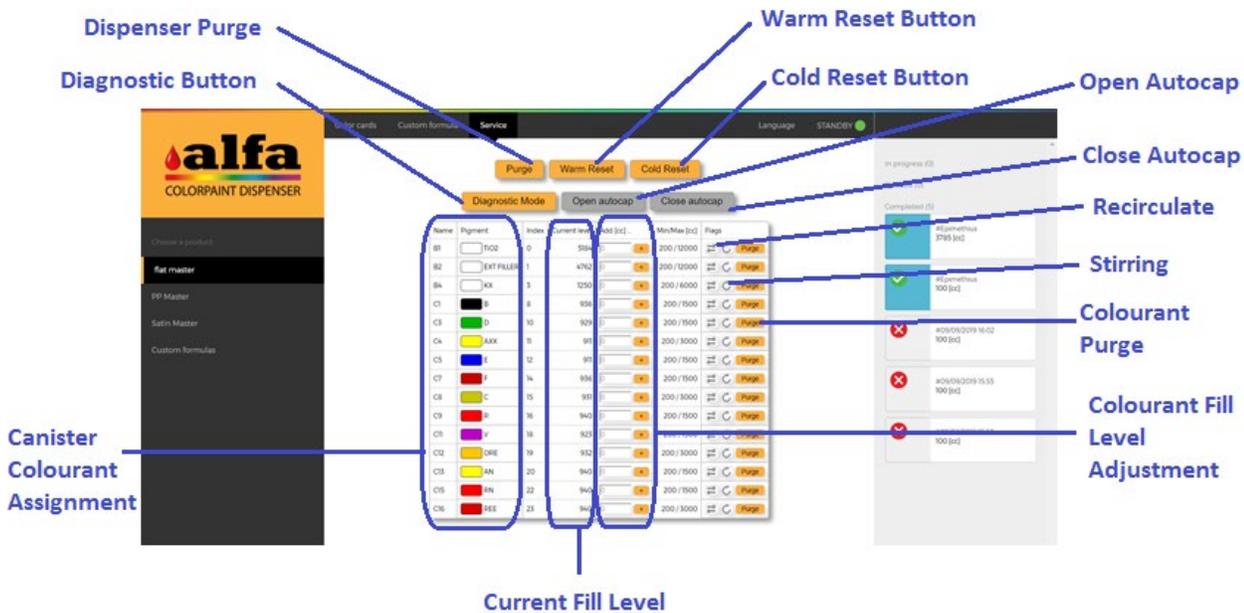
Dispense History -

Displays last 5 colours dispensed and dispense status.

Green tick = Successful Dispense

Red X = Unsuccessful Dispense

11.2. Service Menu Options



Dispenser Purge -

Used to purge all of the colourants and fillers.

Warm Reset -

Carries out a quick systems check on the dispenser. Used to clear most alerts or errors.

Cold Reset -

Carries out a full system reboot and check on the dispenser.

Diagnostic -

Puts the dispenser into Diagnostic Mode which is necessary for some functions.

Open Autocap -

Opens autocap. Only in diagnostic mode.

Close Autocap -

Closes autocap. Only in diagnostic mode.

Recirculate -

Commands the recirculation of the selected colourant/circuit.

THOR – Rotates the carousel and brings the selected colorant to the dispense position. Used for filling.

Stirring (Agitation) -

Commands a stirring of the selected colourant/circuit.

Purge -

Manual dispense of the selected colourant/circuit.

Fill Level Adjustment -

Used to add or adjust the fill levels. Refer to the maximum fill level diagram for each canister type.

Measurements are in CC/ml (1 liter = 1000 cc)

Current Fill Level -

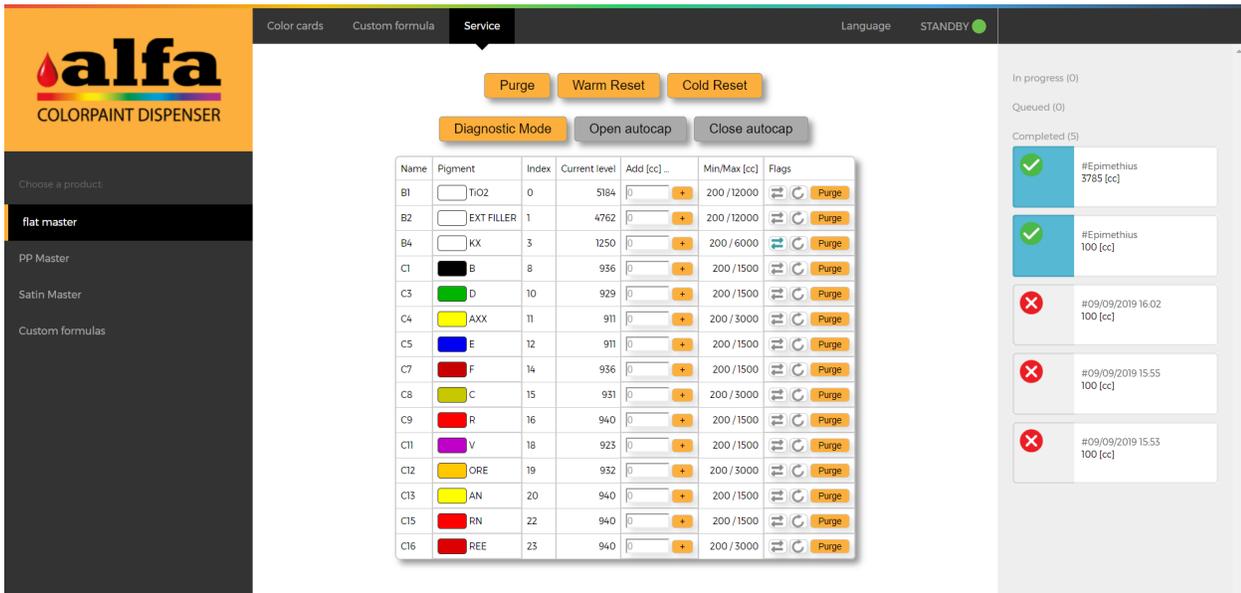
Displays current fill level. Refer to the maximum fill level diagram for each canister type.

Measurements are in CC/ml. (1 liter = 1000 cc)

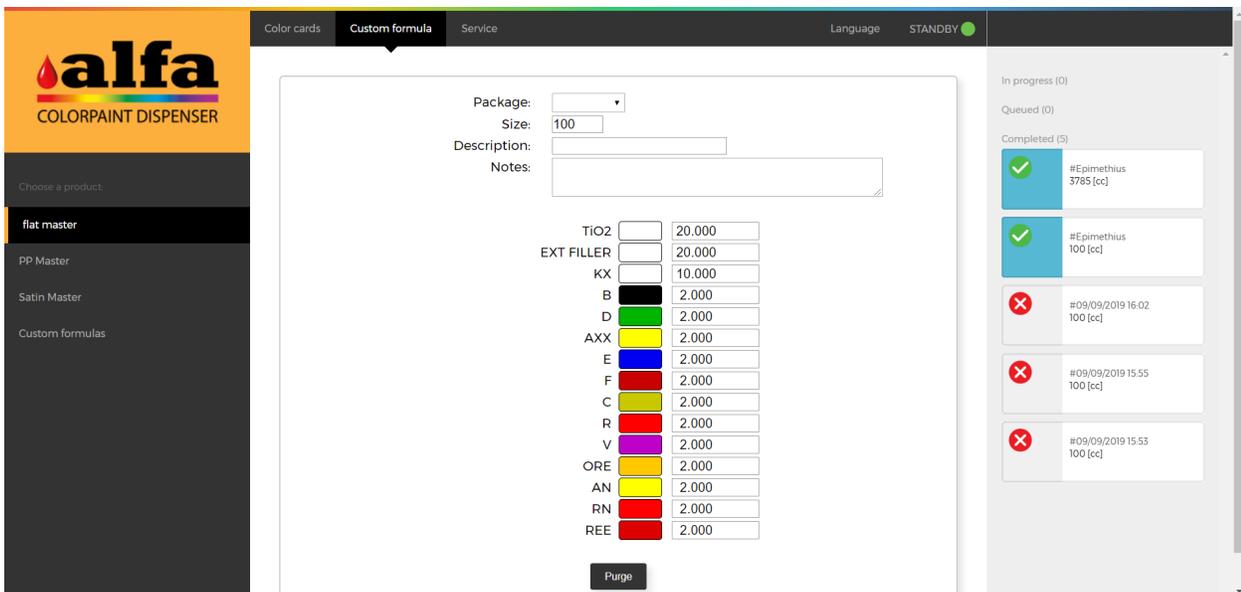
11.3. Purging The Dispenser

The ALFA dispenser must be purged every morning. Use the following steps to do so. Please note this MUST be done manually as the machine will not prompt you to do it.

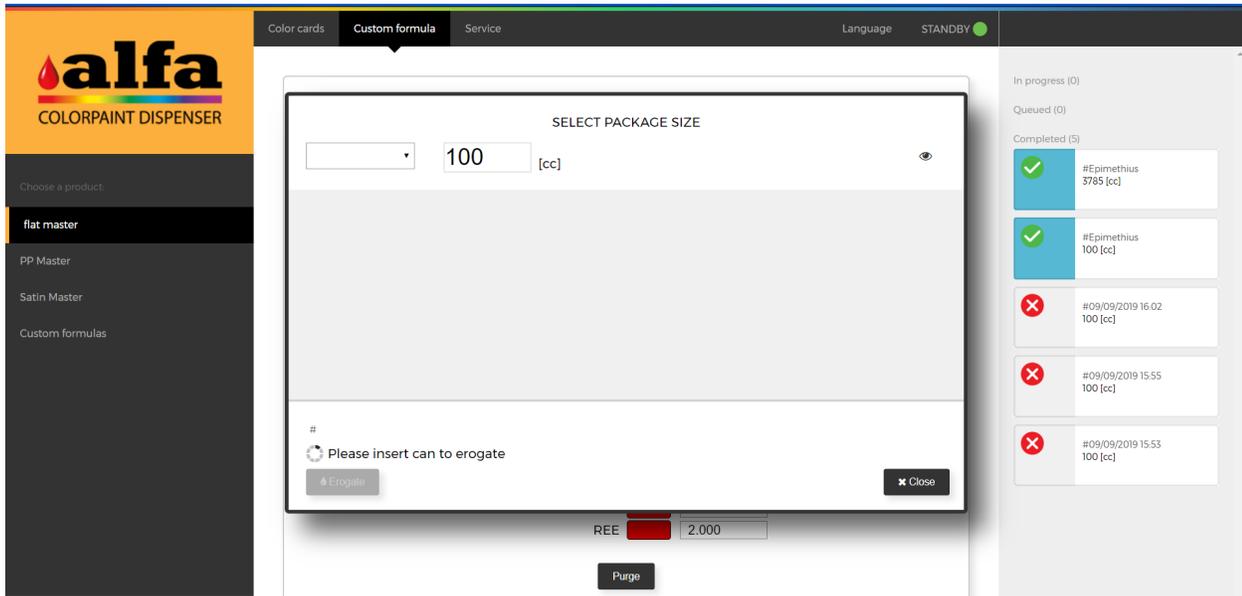
Click on the Service Tab to open the Service Menu. Click the Purge button.



The following window will then be displayed. Change nothing in this window and click the Purge button at the bottom of the screen (you may have to scroll down).

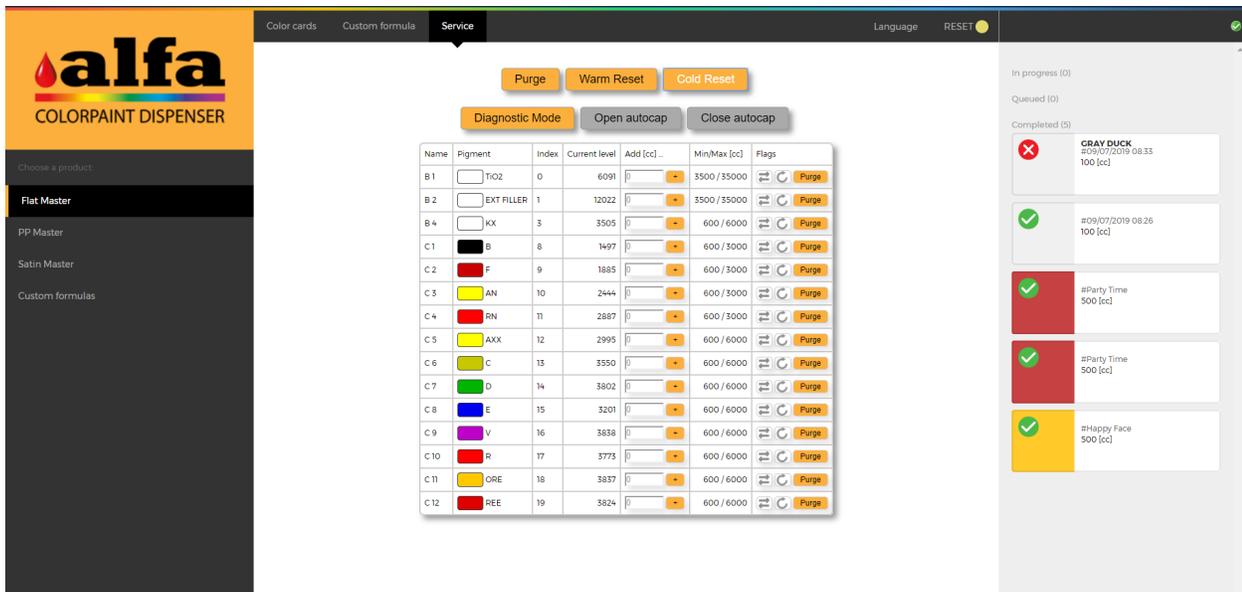


After clicking Purge the following Dispense Confirmation window will pop up. Ignore the package size, place the purge can on the dispense shelf and once the can is detected, click Erogate (Bad translation for Dispense). When purge is completed it will prompt you to remove can.



11.4. How to Reset the ALFA Dispenser

Any time an Error or Alert is detected by the dispenser, a reset must be done to clear the error to proceed. To do this go to the Service Menu, and most Alerts can be cleared by using a Warm Reset. In some cases a Cold Reset is necessary. The Warm reset takes around 45 seconds to complete and the dispenser goes through a basic series of tests, whereas the Cold Reset takes just over a minute and the dispenser does a full systems check as if it was now turned on. When finished the Status indicator should say STANDBY.



11.5. Filling the ALFA Dispenser

Refer to the Service Menu options above. For the THOR, select the colorant to be filled, enter the amount to be added and click the + (add) button, this will rotate the carrusel to bring the selected canister to the front. DO NOT OPEN THE LID UNTIL IT HAS ROTATED. You may get an error stating the lid is opened and will have to do a Warm Reset to continue. Once rotated, pour the colorant into the canister. To add multiple colourants, leave the cover open, select the next colorant and repeat the steps above.

Once finished, close the lid and click Warm Reset.

The screenshot displays the 'Service' menu of the ALFA Colorpaint Dispenser. The interface is divided into several sections:

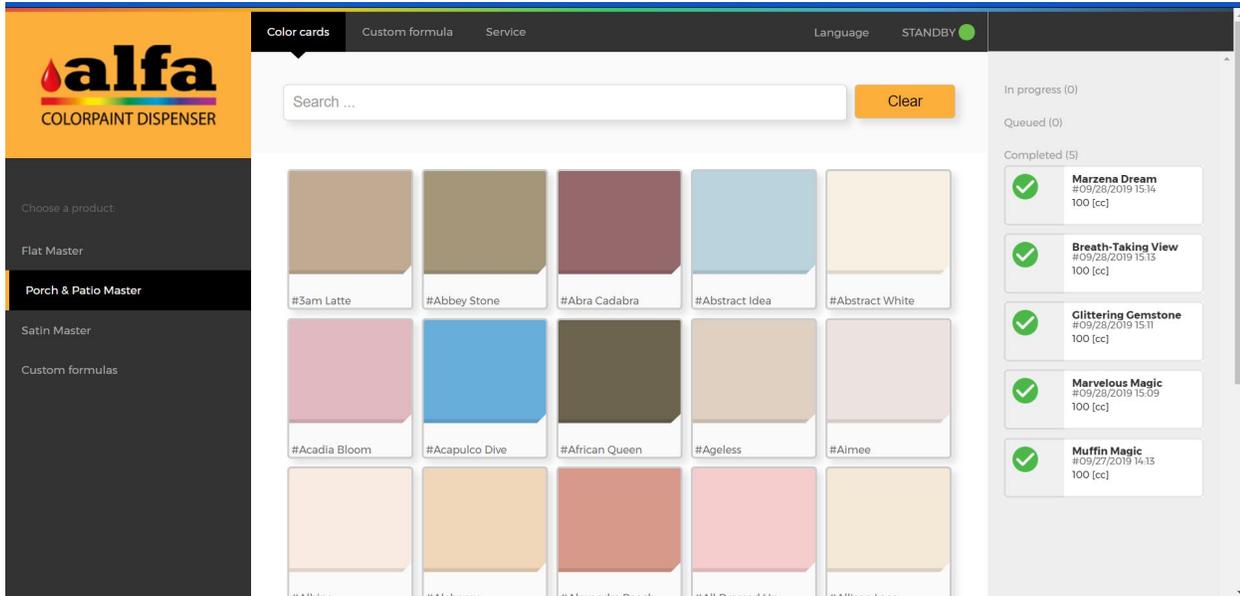
- Top Bar:** Includes 'Color cards', 'Custom formula', 'Service' (active), 'Language', and 'STANDBY' with a green indicator.
- Control Buttons:** 'Purge', 'Warm Reset', 'Cold Reset', 'Diagnostic Mode', 'Open autocap', and 'Close autocap'.
- Colorant List Table:**

Name	Pigment	Index	Current level	Add [cc] ..	Min/Max [cc]	Flags
B1	TIQ2	0	5184	0 +	200 / 12000	Purge
B2	EXT FILLER	1	4762	0 +	200 / 12000	Purge
B4	KX	3	1250	0 +	200 / 6000	Purge
C1	B	8	936	0 +	200 / 1500	Purge
C3	D	10	929	0 +	200 / 1500	Purge
C4	AXX	11	911	0 +	200 / 3000	Purge
C5	E	12	911	0 +	200 / 1500	Purge
C7	F	14	936	0 +	200 / 1500	Purge
C8	C	15	931	0 +	200 / 3000	Purge
C9	R	16	940	0 +	200 / 1500	Purge
C11	V	18	923	0 +	200 / 1500	Purge
C12	ORE	19	932	0 +	200 / 3000	Purge
C13	AN	20	940	0 +	200 / 1500	Purge
C15	RN	22	940	0 +	200 / 1500	Purge
C16	REE	23	940	0 +	200 / 3000	Purge
- Left Sidebar:** 'Choose a product.' with options: 'flat master', 'PP Master', 'Satin Master', 'Custom formulas'.
- Right Panel:**
 - In progress (0)
 - Queued (0)
 - Completed (5)
 - ✓ #Epimethius 3785 [cc]
 - ✓ #Epimethius 100 [cc]
 - ✗ #09/09/2019 16:02 100 [cc]
 - ✗ #09/09/2019 15:55 100 [cc]
 - ✗ #09/09/2019 15:53 100 [cc]

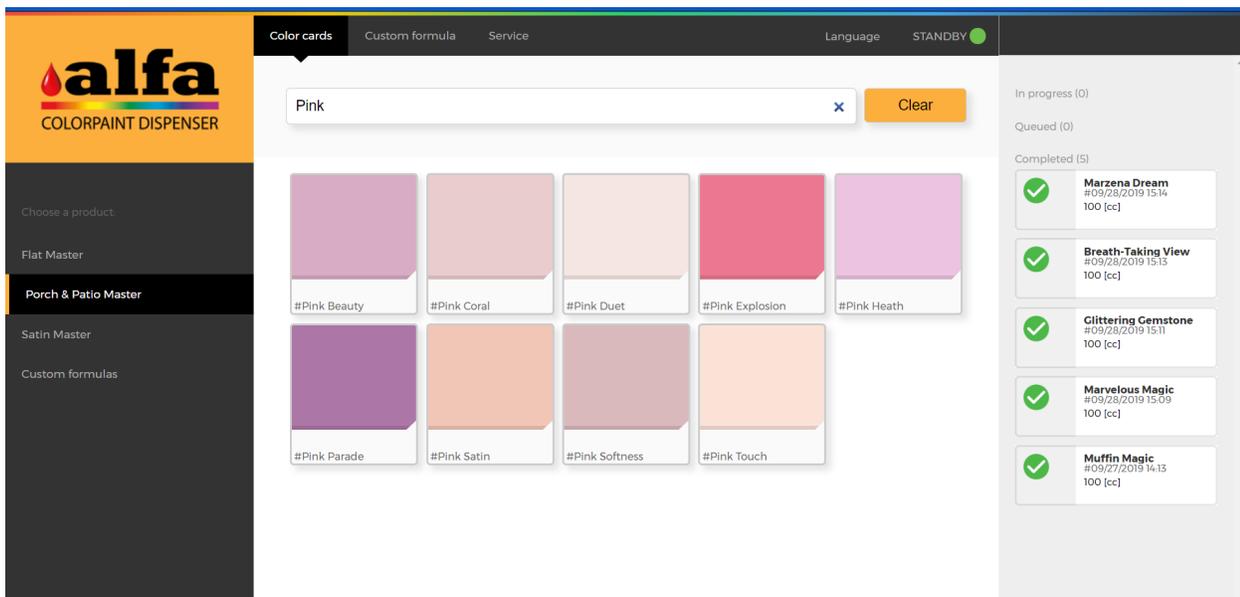
11.6. Dispensing from ALFA Tint

Tinting the Master base products will initially be done with the ALFA Tinting Software. This allows us the flexibility to quickly adjust or amend formulations during the test period as we aim to improve color accuracy. One limitation of this software is the inability to scan a sample to achieve a formula.

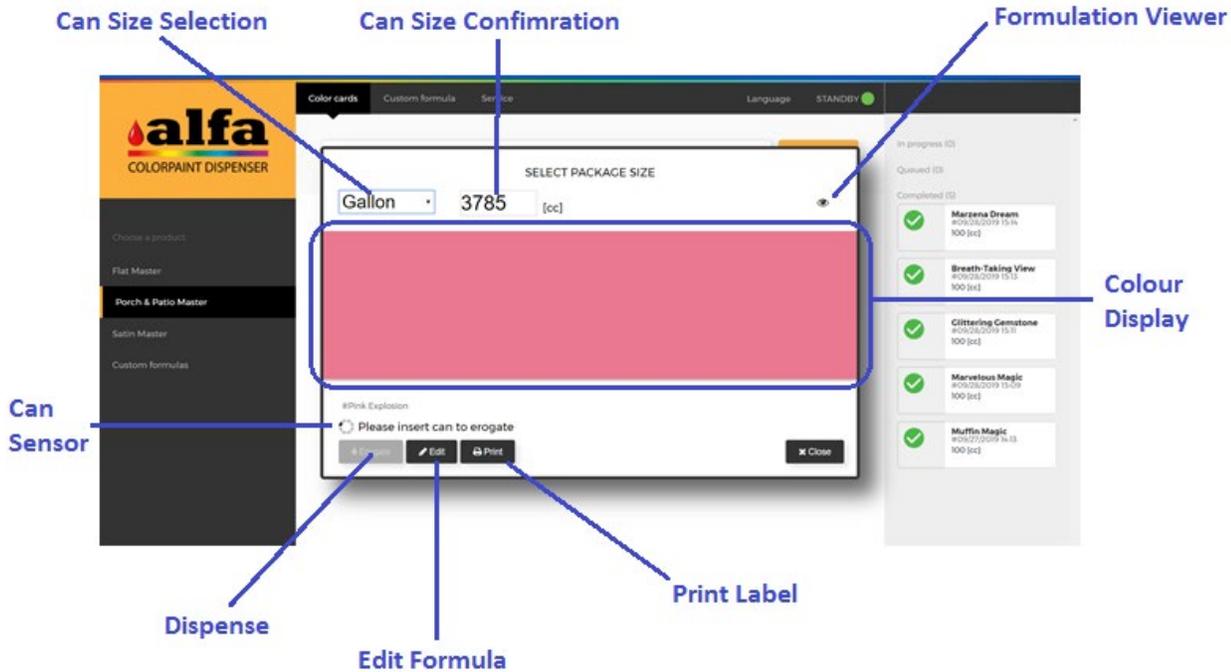
To tint a color, go to the ALFA Tint main screen.



First select the product type from the list on the left, then type the name of the color in the search bar or scroll for the color. For example, to tint Pink Explosion in Porch & Patio choose Porch & Patio Master from the product list, then type Pink Explosion in the search bar. As seen below, once you start to type the smart search finds all results with "Pink". From here you can click the color tab with Pink Explosion.



Once the correct colour tab has been selected, the dispense confirmation window will open.



Can Size Selection -

Choose can size to be dispensed.

Can Size Confirmation -

Displays the can size volume in CC (ml). The can size can also be manually entered here if the size to be tinted is not in the list.

Formulation Viewer -

Select this to view the formulation to be dispensed.

Color Display -

Sample of the color to be dispensed is displayed.

Edit Formula -

Used to edit the existing formulation.

Print Label -

Prints the label for the currently selected formulation.

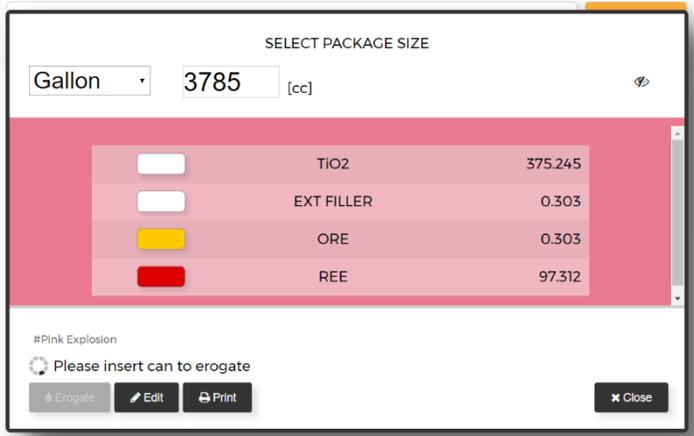
Can Sensor -

Displays the can status.

Dispense -

Only available if can is detected. Begins to dispense once clicked.

Confirmation window with formulation displayed.



Click Print to print a label, then Click Dispense once the can is in place.

Once dispense is finished you will be prompted to remove the can in the can status line. When the can is removed the window will automatically close.

To tint multiple gallons this will need to be repeated.

11.8. Maintenance & Troubleshooting

ALFA dispensers will give an error message or Alarm for any issue detected with the dispenser. These errors are presented with a flashing status light on the dispenser and also an Alert message in ALFA Tint where the Dispenser Status indicator will be Red. Clicking on this Status indicator will give a pop up window with the current error.

Make a note of the error message and report it to your respective ColourCentre Technician or to the Colour Technology Officer. ALFA dispensers have remote access and these errors can be investigated without requiring a service visit.

The Alfa dispensers will get an annual service visit to verify calibration and full dispenser check.

Software updates can be done via remote log in or via ALFA Cloud service.

Firmware updates must be done directly at the dispenser.