STOCK AMERICA LLC.

Sterilization Systems

ICON^{SMS} User Guide

ICON^{SMS} User Guide



STOCK AMERICA

ICON^{SMS} User Guide

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ICON^{SMS} Application

ICON^{SMS} is an intranet application that provides users the ability to develop, edit, and download recipes to STOCK retorts. The application also generates recipe reports, batch reports and process trend reports.

Home Page

The home page displays the current status of the retorts. The information is populated from the database which is automatically updated every 6 seconds. Alternatively, the user can refresh the web page by using the refresh button. All information is grouped by pages and each page displays one or two retorts, depending on total number of retorts. The page toolbar is used to navigate between the pages (See figure 1).

C) Innovativ	r C								
ŀ	lome	Report	ts Trend	Recipe	Configuration	Login	Log	jout		User
					Icons	MS App	licati	on		
						Page 1 of 2	\bigcirc			
	Retort:		Retort 33			Proces	s Id:	33171	45008042017	
	Start Ti	me:	8/4/2017 5:14:	50 PM		End Ti	me:	8/4/20	017 5:17:28 PM	
	Recipe:		StockTest17mi	nVent		Rev:		1		
	Seg Id:	Desc:	O Stock lest Reci	pe		Phase	Desc:	IDLE		
					Trend					
			PV Te	mp	PV Press		Sea Tin	ne	Flow(apm)	
			150 III 131 131 131 131 131 131 131 131 131	302 256 235 201 167 133 100 66 32]:		
					$(\P) (\P)$	Page 1 of 2	(\mathbf{b}))(
							_	_		

Figure 1 – Home Page

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Home Page Fields

	Batch Identification. RRHHMISSMMDDYYYY
	RR – Retort number
	HH – Hour of start of batch
	MI – Minute of start of batch
Process Id:	SS – Second of start of batch
	MM – Month of start of batch
	DD – Day of start of batch
	YYYY – Year of start of batch
Retort:	Description of the retort
Start Time:	Start time of the batch
End Time:	End time of the batch. If no value is shown the batch is in process and has not completed all programmed steps.
Recipe:	Name of the recipe
Rev:	Recipe revision
Prod Desc:	Description of the recipe revision
Seg Id:	Segment Id
Phase Desc:	Phase description
PV Temp:	Temperature gauge displays the process vessel (PV) temperature (tooltip available)
PV Press:	Pressure gauge displays the process vessel (PV) pressure (tooltip available)
Seg Time:	Digital numeric gauge displays the current segment time. (HH:MM:SS)
Flow	Process Vessel Circulation Flow.
Trend:	The trend link displays a process trend in a new window with an image displaying a 'real time' chart of the process (see Figure 2). See the section on Trend for more information.





Trend for Process Id: 1010590506122017



Reports

The reports menu allows the user to select from Batch Reports, Production Report, Alarm, Recipe, Recipe Download Status.

Icon Report

This page allows the user to filter the search of batches based on the following fields: (see figure 3)

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	Reports	s Trend Reci	ipe Configuration	Logi	n Loga	ut					
				-	-	-					
		Batch Repo	rt Filter								
		Start Time:	08/04/2017 00:00:00	-	End Time:	08/04/	2017 15:00	:00	•		
		Retort:	All		Report Type:	Short			•		
			Retort 33								
			Retort 36								
		L		Reque	est Cooks						
		Export To PDF		Expor	t To XLS			Coo	k Repor	t	
		Export To PDF		Expor	t To XLS			Coo	k Repor	t	
Print	Retort	Export To PDF Batch ld	Batch Start	Expor	t To XLS		Recipe	Coo	k Repor	t Flavor/Batch	
Print	Retort	Export To PDF Batch Id	Batch Start	Expor	t To XLS tch End]	Recipe	Coo	k Repor	t Flavor/Batch	9
Print	Retort Retort 33	Export To PDF Batch Id 3307083808042017	Batch Start	Expor Ba	t To XLS tch End /04/2017 07:08	.51	Recipe StockTest	Coo 9	k Repor	t Flavor/Batch	9
Print	Retort Retort 33 Retort 33	Export To PDF Batch Id 3307083808042017 3311410808042017	Batch Start 8 08/04/2017 07:08:38 08/04/2017 11:41:08	Expor Ba 08 08	t To XLS tch End /04/2017 07:08 /04/2017 13:00	.51	Recipe StockTest StockTest	Coo 9 17minVent 17minVent	k Repor	t Flavor/Batch test test	9
Print	Retort Retort 33 Retort 33 Retort 33	Export To PDF Batch ld 3307083808042017 3311410808042017 3313042708042017	Batch Start Batch Start	Expor Ba 08 08 08	t To XLS tch End /04/2017 07:08 /04/2017 13:00 /04/2017 13:48		Recipe StockTest StockTest StockTest	Coo 9 17minVent 17minVent 17minVent	k Repor	t Flavor/Batch test test test	9
Print	Retort Retort 33 Retort 33 Retort 33 Retort 33	Export To PDF Batch Id 3307083808042017 3311410808042017 3313042708042017 3313510308042017	Batch Start	Expor Ba 08 08 08 08 08	t To XLS tch End /04/2017 07:08 /04/2017 13:00 /04/2017 13:48 /04/2017 14:25	.51 .13 .27 .30	Recipe StockTest StockTest StockTest StockTest	Coc 9 17minVent 17minVent 17minVent 17minVent	k Repor	t Flavor/Batch test test test test	9

Figure 3 Batch Report Filter

Batch Report Filter Fields

-	
Start Time:	Start time range of the search filter. Start time of the batch.
End Time:	End time Range of the search filter. End time of the batch.
Retort:	Filters the search by the selected retorts. To select multiple retorts, hold the control key (Ctrl) while selecting the retorts.
Report Type	Request the desired report format Long or Short. Long report displays all the batch phases. The short format hides the HSV and Drain Steps.
Request Cooks:	Starts the batch search based upon the selected fields. When loaded, the system displays the batches for the current day for all retorts.
Cook Report:	Requests selected reports. To select the desired batches, click the checkbox next to the batch of interest (see figure 4). The report will be render in pdf format.
Export List to PDF:	Exports the list of batches to a PDF file.
Export List to XLS:	Exports the list of batches to an Excel file format.

The search results of the grid can be filter by the following fields Batch is, Recipe, Rev, Flavor or Batch. This option will allow you to further filter the search. The filter fields are located on the first record of the grid, by default the filter criteria is Containts but user



can change it by pressing the key icon nex to the filter box the options are Begins with, Contains, Doesn't contain, Ends with, Equals and Doesn't equal. See figure 5

Home Reports Trend Recipe Configuration Login Logout Batch Report Filter Start Time: 08/04/2017 00:00:00 • End Time: 08/04/2017 15:00:00 • Retort: All Report Type: Short •	
Batch Report Filter Start Time: 08/04/2017 00:00:00 End Time: 08/04/2017 15:00:00 Retort: All Report Type: Short	
Batch Report Filter Start Time: 08/04/2017 00:00:00 End Time: 08/04/2017 15:00:00 Retort: All Report Type: Short	
Batch Report Filter Start Time: 08/04/2017 00:00:00 End Time: 08/04/2017 15:00:00 Retort: All Report Type: Short	
Batch Report Filter Start Time: 08/04/2017 00:00:00 End Time: 08/04/2017 15:00:00 Retort: All Report Type: Short	
Start Time: 08/04/2017 00:00:00 End Time: 08/04/2017 15:00:00 Retort: All Report Type: Short	
Retort: All Report Type: Short 👻	
Retort 33	
Retort 36	
Provent Confer	
Request Cooks	
Event To DDE Event To YIS Cook Report	
	_
Print Retort Batch Id Batch Start Batch End Recipe Rev Flavor/Batch	
Ŷ Ŷ Ŷ Ŷ	9
Retort 33 3307083808042017 08/04/2017 07:08:38 08/04/2017 07:08:51 StockTest17minVent 1 test	
Retort 33 3311410808042017 08/04/2017 11:41:08 08/04/2017 13:00:13 StockTest17minVent 1 test	
Retort 33 3313042708042017 08/04/2017 13:04:27 08/04/2017 13:48:27 StockTest17minVent 1 test	
Retort 33 3313510308042017 08/04/2017 13:51:03 08/04/2017 14:25:30 StockTest17minVent 1 test	1

Figure 4 Batch Checkboxes



ome	Report	s Trend	Recipe	Configuration	Logi	n Logo	ut					
				5								
		Batch	h Report Fi	lter								
		Ctart	Time: 08/0	14/2017 00:00:00	-	End Time	08/04/	2017 15:00	.00	-		
		Start	. 00/0	4/2017 00:00:00		Report Type:	Short	2017 15:00	.00	• •		
		Retor	t: All	vrt 33		Report type.	Shore			·		
			Reto	ort 36								
					Reque	st Cooks						
					Reque	st Cooks						
				[Reque	st Cooks						
		Export To PD	١F		Reque	st Cooks t To XLS			Coo	k Report	t	
		Export To PD)F	[Reque	st Cooks t To XLS			Coo	k Report	t	
Print	Retort	Export To PD Batch Id)F	atch Start	Reque Expor	st Cooks t To XLS tch End		Recipe	Coo	k Report	t Flavor/Batch	
Print	Retort	Export To PD Batch Id	PF B	atch Start	Reque Expor	st Cooks t To XLS tch End		Recipe	Coo	k Report	t Flavor/Batch	9
Print	Retort Retort 33	Export To PD Batch Id	РF В Р Р 142017	atch Start Begins with	Reque Expor	st Cooks t To XLS tch End /04/2017 07:08	.51	Recipe StockTest	Coo 9 17minVent	k Report	t Flavor/Batch test	9
Print	Retort Retort 33 Retort 33	Export To PD Batch Id 33070838080 33114108080	рF В 9 142011 142011	atch Start Begins with Contains	Reque	st Cooks t To XLS tch End /04/2017 07:08 /04/2017 13:00	.51	Recipe StockTest	Coo 9 17minVent 17minVent	k Report	Flavor/Batch test test	9
Print	Retort Retort 33 Retort 33 Retort 33	Export To PD Batch Id 33070838080 33114108080 33130427080	PF B PF P42017 142017 142017	atch Start Begins with Contains Doesn't contain	Reque Export Bat 08, 08, 08,	st Cooks t To XLS tch End /04/2017 07:08 /04/2017 13:00 /04/2017 13:48	.51	Recipe StockTest StockTest StockTest	Coo P 17minVent 17minVent 17minVent	k Report	Flavor/Batch test test test	9

Figure 5 Grid Filter Options

The batch report is displayed in a new page as a PDF document (See figure 5). The standard Adobe Acrobat reader toolbar is displayed based on your web browser configuration. Beware since the report will be display on a new page make sure your browser is not block the new page request. By utilizing the toolbar, one is able to interact with the report (See figure 6).

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ICON SMS	Batch	Repor	t		B&M F	oods	Cook Cycle:	
Retort:	33			Batch:	3313042708042	2017	Cook Id: te	est
Recipe:	StockTe	est17min	Vent	Description:	Stock Test Rec	ipe	Rev: 1	- Experimental
Start Time:	08/04/2	017 13:0	4:27	End Time:	08/04/2017 13:4	48:27	Duration: 0	0:44:00
Container:	Cans -	12		Cont Qty:	1234			
Seg #: 1	ST Ven	t - 1		PV Tem	p Sys Pres F psi			
	08/04/2	017 13:0	4:27	174.	8 0.0			
Time In Seg:	08/04/2	017 13:2 4	1:51	246.	3 14.9			
Seg #: 2	ST Con	neUp -	1	PV Tem	p Sys Pres F psi			
	08/04/2	017 13:2	1:51	246.	3 14.9			
Time In Seg:	08/04/2	017 13:2 0	4:51	248.	1 13.7			
Seg #: 3	ST Ster	ilization	- 1	PV Tem	p Sys Pres F psi			
	08/04/2	017 13:2	4:51	248.	1 13.7			
Time In Seg:	08/04/2	017 13:2 0	9:51	247.	5 13.4			
Seg #: 4	ST Atm	osphere	Cool - 1	PV Tem	p Sys Pres F psi			
	08/04/2017 13:29:51			247.	5 13.4			
Time In Seg:	08/04/2	017 13:4 3	7:14	97.	3 0.0			
Total Come u	p time:	00:20:2	24	Total C	ook Time: 00:0	05:00		
User Actio	ns Sur	nmary						
Date / Time		Seg	Phase	Descriptio	n			Username
08/04/2017 1	3:04:27	1	ST Vent	Process Sta	art			op1
08/04/2017 1	3:04:27	1	ST Vent	Initial Temp	erature Entry: 90	0.0 °F		op1
08/04/2017 13	3:26:25	3	ST Sterilization	User Input Bleeders: C	First Entry - Ref. HECKED	Temp: 248.3 °F -	Chart Temp: 247.7 °F - Top/Botto	om op1
08/04/2017 13	3:47:14	4	ST Atmosphere Cool	Force Step	Complete			op1
08/04/2017 13	3:48:27	0	IDLE	Process Co	mplete			op1

Figure 6 – Report

Batch Report Header

Each batch report displays a report header on the top of each page. The header contains information pertaining to the cook or batch. (See figure 7)

Retort:	33	Batch:	3313042708042017	Cook Id: test
Recipe:	StockTest17minVent	Description:	Stock Test Recipe	Rev: 1 - Experimental
Start Time:	08/04/2017 13:04:27	End Time:	08/04/2017 13:48:27	Duration: 00:44:00
Container:	Cans - 12	Cont Qty:	1234	

Figure 7 – Report Header



Batch Report Header Fields

Retort	Retort Id (numerical)						
Batch	Batch Id is an automatically generated and unique identification used to identify the cook.						
	The number is assigned at the beginning of each cook.						
	The number represents: RRHHMISSMMDDYYYY						
	RR – Retort number						
	HH – Hour of start of batch						
	MI – Minutes of start of batch						
	SS – Seconds of start of batch						
	MM – Month of start of batch						
	DD – Day of start of batch						
	YYYY – Year of start of batch						
Flavor / Batch	User entry at the start of the cook. The alphanumeric value can contain a maximum of 15						
	characters.						
Recipe	Recipe Name						
Description	Description of the recipe						
Rev	Recipe revision number						
Start Time	Start Time of the batch.						
End Time	Completion time of the bath						
Duration	Total duration of the batch						
Container	Container type and size, information from recipe						
Cont Qty	Total number of containers in a cook, information from recipe						

Batch Report Segment Data

The Segment Data Report displays information in relation to the process segment (See figure 8). The system captures the process information at the beginning of the segment start, at the end of the segment and at every step or segment of the process. Additional process fields may be displayed depending on the process mode.

Seg #: 1	HSV - 1	PV Temp °F	PV Pres psi	Rotor cpm	PV Level %
Seg Begin	04/28/2010 00:00:23	97.1	0.0	0.0	1.0
Seg End	04/28/2010 00:04:38	92.5	0.0	0.0	1.0
Time In Seg:	00:04:15				

Figure 8 – Report Segment Data

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Batch Report Segment Fields

Seg Begin and Seg End	Time Stamp of the start and end of the segment
Phase - X	Phase Description follow by the Phase occurrence. (See Figure 8; it displays HSV – 1)
Process Fields	The report will show a series on columns displaying values of the process variables at the
	beginning and end of the step. The process variables will vary based on the retort type and
	they could be fields like PV Temperature, system pressure, pv level, Rotor RPM, ect.
Time in Seg	Duration of the segment

Batch Report Summary Time Data

The Summary Time Data Report displays the total process time for the following events: (See Figure 9)

Total Come up time 00:21:39	Total Cook Time: 00:32:00	
	Figure 9 – Summary Time Data	

Batch Report Summary Time Data Fields

Total Come Up Time	Total time accumulated for the process phases considered in come up.
Total Cook Time	Total time accumulated for the process cook phase.

Batch Report Alarm Summary

The Alarm Summary Report displays all the alarm information that occurred during a cook or batch. The following information is displayed. (See figure 10)

Alarm Summary									
Date / Time	Seg	Phase	Status	Priority	Description	Process Value	Alarm Limit	Duration	User name
04/28/2010 00:06:28	4	Come up	InAlm	Alarm	Alarm System PSI Hi	30.7	20.0		jcardenas
04/28/2010 00:06:36	4	Come up	Ack	Alarm	Alarm System PSI Hi	30.8	20.7	00:00:08	jcardenas
04/28/2010 00:07:47	4	Come up	OutAlm	Alarm	Alarm System PSI Hi	28.9	29.1	00:01:19	jcardenas

Figure 10 – Alarm Summary

Batch Report Alarm Summary Fields

Date / Time	Date/Time of the alarm status
Seg	Step or Segment in which an alarm occurred
Phase	Phase in which an alarm occurred
Status	InAlm – In Alarm when the condition goes into alarm
	OutAlm – Out of Alarm when the condition goes out of alarm
	Ack –Time the retort operator acknowledged the alarm event
Priority	Deviation, Alarm, Warning
Description	Description of the alarm condition



Process Value	Process Value which triggers the alarm. For Digital or On/Off alarms the value will be one.
Alarm Limit	Alarm Setpoint. For Digital or On/Off alarms the value will be 1
Duration	Duration of the Status since the condition when in alarm
Username	Name of the user logged into the system at the time of the event

Batch Report User Actions Summary

The User Actions Summary Report reflects all the user events or actions performed during the batch or cook. The following information is displayed. (See figure 11)

User Actions Summary							
Date / Time	Seg	Phase	Description	Username			
04/28/2010 00:00:23	1	HSV	Process Start	jcardenas			
04/28/2010 00:04:38	1	HSV	Initial Temperature Entry: 152.0 °F	jcardenas			
04/28/2010 00:25:54	5	Sterilization	User Input First Entry - Ref. Temp: 251.0 °F - Chart Temp: 250.0 °F	jcardenas			
04/28/2010 00:56:50	0	IDLE	Process Complete	jcardenas			

Figure 11 – Batch Report User Actions Summary

Batch Report User Actions Summary Fields

Date / Time	Date/ Time of the event
Seg	Segment in which the event occurred
Phase	Phase description of the segment
Description	Event Description
Username	Name of the user logged into the system at the time of the event

Batch Report Footer

Each batch report displays footer on the bottom of each page. The footer contains information pertaining to the cook or batch. (See figure 12)

Operator Review:	Printed Date: 08/07/2017 14:53:55	QA Review	
Date:	Page: 1/1	Date:	

Figure 12 – Report Footer



Batch Report Footer Fields

Operator Review	Field used by the operator who review of the report to write the date
Date:	Field used by the operator reviewer of the report to write the date
Printed Date	Date / Time when the report was printed
QA Review:	Field used by the QC reviewer of the report to sign
Date	Field used by the QC reviewer of the report to write the date
Page x of y	Page number of total number of pages

Batch Report Watermarks

The IconSMS batch report engine generates watermarks on the Icon Batch reports to provide means of identifying critical events or classification of the report. (See figure 13)

Seg End Time in Sec.	04/28/2010 00:04:38	82.5	0.0	0.0	1.0	
Seg #: 2	Come up - Vent - 1	PV Temp <f< th=""><th>PV Pres psi</th><th>Rotor</th><th>PV Level %</th><th>\sim</th></f<>	PV Pres psi	Rotor	PV Level %	\sim
Seg Begin	04/28/2010 00:04:38	92.5	0.0	0.0	1.0	
Seg End	04/28/2010 00:05:24	147.1	0.3	9.2	18.0	\sim
Time in Seg:	00:00:46					
Seg #: 3	Come up - Vent - 2	PV Temp °F	PV Pres psi	Rotor cpm	PV Level %	\sim
Seg Begin	04/28/2010 00:05:24	147.1	0.3	9.2	18.0	
Seg End Time In Seg:	04/28/2010 00:06:24 00:01:00	225.4	12.2	9.2	39.0	
Seg #: 4	Come up - 1	PV Temp «F	PV Pres psi	Rotor cpm	PV Level %	N.
Seg Begin	04/28/2010 00:06:24	225.4	12.2	9.2	39.0	
Seg End	04/28/2010 00:17:44	251.1	27.4	19.5	94.0	
Time in Seg:	00:11:20					
Seg #: 5	Sterilization - 1	PV Temp F	PV Pres psi	Rotor cpm	PV Level %	•
Seg Begin	04/28/2010 00:17:44	251.1	27.4	19.5	94.0	
Seg End	04/28/2010 00:42:50	249.9	35.1	19.4	102.0	
Time In Seg:	00:25:06				<u> </u>	
Seg #: 6	Cooling 1 - 1	PV Temp «F	PV Pres psi	Rotor cpm	PV Level %	
Seg Begin	04/28/2010 00:42:50	249.9	35.1	19.4	102.0	
Seg End	04/28/2010 00:45:40	/ 177.9	35.6	> 19.4	85.0	
Time In Seg:	00:02:50		X			
Seg #: 7	Cooling 2 - 1	PV Temp •F	PV Pres psi	cpm	PV Level %	
Seg Begin	04/28/2010 00:45:40	177.9	35.6	19.4	85.0	
Seg End	04/28/2010 00:46:40	158.6	27.4	19.4	76.0	
Time In Seg:	00:01:00					
Seg #: 8	Cooling 2 -2	PV Temp «F	PV Pres psi	Rotor cpm	PV Level %	
Seg Begin	04/28/2010 00:46:40	158.6	27.4	19.4	76.0	
Seg End	04/28/2010 00:54:40	93.6	12.3	19.5	75.0	
Time in Seg:	00:08:00	V				
Seg #: 9 🧹	Drain - 1	PV Temp «F	PV Pres psi	Rotor cpm	PV Level %	
Seg Begin	04/28/2010 00:54:40	93.6	12.3	19.5	75.0	
Seg End Time in Seg	04/28/2010 00:56:29 00:01:48	95.1	0.0	2.0	4.0	
Total Come	up time: 00:13:05	Total Cool	Time: 00:25	5:06		

Figure 13 – Report Watermark

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The possible watermarks on the reports are:

RE-PRINT NOT AN OFFICIAL RECORD	This watermark is printed when more than 24 hrs have elapsed since the cook
	or batch end date time.
DEVIATION – REVIEW REQUIRED:	Printed when the IconSMS system has detected a deviation condition.
ABORTED	Printed when a cook was aborted.
RE-PRINT ABORTED NOT AN OFFICIAL	Printed when the cook was aborted and more than 24 hrs have elapsed since
RECORD	the cook or batch end date time
RE-PRINT DEVIATION NOT AN OFFICIAL	Printed when the IconSMS system has detected a deviation condition and
RECORD	more than 24 hrs have elapsed since the cook or batch end date time.

Alarm Report

The alarm report option from the menu enables the user to request a list of the alarms logged by the system by filtering the search based on the fields shown on figure 14. The report is grouped by retort and is sorted by retort and alarm date time.

STC intovative steriliz									
Home Repo	rts Trend	Recipe	Configuration	Login	Logout				Us
	Alarms Repo	ort Filter							-
	Start Time:	08/07/2017	00:00:00	▼ End Tim	e: 08,	/08/2017	00:00:00	-	
	Retort:	All		Priority:	AI				
		Retort 33			Wa	arning			
		Retort 36			Ala	arm			
					De	viation			
	Alarm Status:	All		Alarm D	escription:				
		InAlm							
		OutAlm							
		Ack							
		Alarm Interr	rogator 🔻						
		Request PDF F	Report		Req	uest XLS I	Report		

Figure 14 – Alarm Report Filter

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Alarm Report Filter Fields

Start Time:	Start time of the search. The time used for the filter is the start time of the alarms
Start Time.	Start time of the search. The time used for the filter is the start time of the alarms.
End Time:	End time of the search. The time used for the filter is the end time of the alarms.
Retort:	Filters the search by the selected retorts. To select multiple retorts, hold the control key
	(Ctrl) while selecting the retorts.
Priority:	Filters the search by the selected alarm priority. To select multiple priorities, hold the
	control key (Ctrl) while selecting the priority. Available options are: Deviation, Alarm and
	Warning
Alarm Description:	The system will filter the alarm description for the text typed on this field.
Alarm Status	Filters the search by the selected alarm status. To select multiple alarm status, hold the
	control key (Ctrl) while selecting the alarm status. The alarm status options are: InAlm,
	OutAlm and Ack.
Request PDF Report:	Requests the alarm report for the selected filters. The report will open as a pdf file (see
	figure 15a).
Request XLS Report:	Requests the alarm report for the selected filters. The report will open as an Excel file (see
	figure 15a).



ICON RMS Alarm Report

Report Filte	r										
Start Date /	Time: 8/4/20	117	End [Date / Time: 8/8/2017 F	Retorts: All	Priority: All		Statu	is: All	Desc	e
Retort: 33											
Process	B-IIt-	Disease		Benedetter	C 1-1-1-1		Process	Alarm		Protect	Battab M
Status Deviation	Alarm	ST Vent	Seg 1	Alarm Segment Hold	InAlm	Alarm Time 08/04/2017 07:08:39	Value 1.00	1.00	stocka	StockTest17	3307083808042017
Deviation	Alarm	ST Vent	4	Alarm Segment Hold	loAlm	08/04/2017 11:41:10	1.00	1.00	001	minVent StockTeet17	3311410808042017
Demaion		U i i u	1	ruam cognent rola					001	minVent	0011410000042011
Deviation	Alarm	ST Vent	1	Alarm Segment Hold	OutAlm	08/04/2017 11:41:31	0.00	1.00	op1	StockTest17 minVent	3311410808042017
Deviation	Alarm	ST Vent	1	Alarm Segment Hold	Ack	08/04/2017 11:41:34	0.00	1.00	op1	StockTest17 minVent	3311410808042017
Deviation	Alarm	ST ComeUp	2	Alarm Segment Hold	InAim	08/04/2017 11:58:29	1.00	1.00	op1	StockTest17 minVent	3311410808042017
Deviation	Alarm	ST ComeUp	2	Alarm Segment Hold		08/04/2017 11:58:41	0.00	1.00	op1	StockTest17	3311410808042017
Deviation	Alarm	ST ComeUp	2	Alarm Segment Hold	OutAlm	08/04/2017 11:58:41	0.00	1.00	op1	StockTest17	3311410808042017
Deviation	Deviation	ST Sterilization	3	Chart Temp > Ref Temp Deviation	InAim	08/04/2017 12:02:44	1.00	1.00	op1	StockTest17	3311410808042017
Deviation	Deviation	ST Sterilization	3	Chart Temp > Ref Temp Deviation	Ack	08/04/2017 12:02:50	1.00	1.00	op1	StockTest17	3311410808042017
Deviation	Alarm	ST Sterilization	3	Temperature/Pressure Mismatch	InAlm	08/04/2017 12:06:02	1.00	1.00	op1	minVent StockTest17	3311410808042017
Deviation	Alarm	ST Sterilization	3	Temperature/Pressure Mismatch	Ack	08/04/2017 12:06:11	1.00	1.00	op1	StockTest17	3311410808042017
Deviation	Alarm	ST Sterilization	3	Temperature/Pressure Mismatch	OutAlm	08/04/2017 12:06:27	0.00	1.00	op1	StockTest17	3311410808042017
Deviation	Alarm	ST Vent	1	Vent Time Exceeded	InAlm	08/04/2017 14:08:04	0.00	1.00	op1	StockTest17	3313510308042017
Deviation	Alarm	ST Vent	1	Vent Time Exceeded	Ack	08/04/2017 14:08:15	0.00	1.00	op1	StockTest17	3313510308042017
Deviation	Alarm	ST Vent	1	Vent Time Exceeded	OutAlm	08/04/2017 14:10:28	0.00	1.00	op1	StockTest17	3313510308042017
Deviation	Deviation	ST Sterilization	3	Chart Temp > Ref Temp Deviation	InAim	08/04/2017 15:01:19	1.00	1.00	op1	StockTest17	3313510308042017
Deviation	Deviation	ST Sterilization	3	Chart Temp > Ref Temp Deviation	Ack	08/04/2017 15:01:21	1.00	1.00	op1	StockTest17	3313510308042017
Deviation	Deviation	ST Vent	1	Deviation Lo Initial Temp	InAim	08/04/2017 15:57:22	1.00	1.00	Guest	StockTest17	3315535208042017
Deviation	Deviation	ST Vent	1	Deviation Lo Initial Temp	Ack	08/04/2017 15:58:13	1.00	1.00	op1	StockTest17	3315535208042017
Deviation	Deviation	ST Sterilization	3	Short CUT Segment Time	InAim	08/04/2017 16:01:37	1.00	1.00	op1	StockTest17	3315535208042017
Deviation	Deviation	ST Sterilization	3	Short CUT Segment Time	Ack	08/04/2017 16:01:42	1.00	1.00	op1	StockTest17	3315535208042017
Deviation	Deviation	ST Sterilization	3	Chart Temp > Ref Temp Deviation	InAlm	08/04/2017 16:02:27	1.00	1.00	op1	StockTest17 minVent	3315535208042017

Printed: 08/07/2017 15:34:13

Figure 15a – Alarm Report

1/7



	File	mrpt.) Edit	(ISX Insert Forn	nat	Help												<u>+</u>	Downle	bad	a) s	hare
	R.	⊂ €	Q Aria	1	▼ 10 ▼	B	I	U	÷	<u>A</u> •	Ŷ	· •	⊞	•	++	• =	₽	≣∙			
x	ICON F	MS Ala	rm Report																		
	A D	E F	G	1	K L M		Ν	0	Ρ	Q		R	S	Т	U	VW	X	Y	Z A/A	B A(AD
	ICON RM	IS Alarm	Report]																
3	Report Filte	er																			
	Start Date	e/ 8/4/20	017	End	Date / 8/8/2017		Reto	rts All			Pri	ority. /	AII			St	atus:	All	D	esc:	
,	Time:			Т	îme:																
3	Retort 33																				
)	Process	Priority	Phase	Sea	Description			Status		Alarn	1 Time			Proc	ess alue	Alarm	e u	ser Name	Recipe		Batch In
1	Deviation	Alarm	ST Vent	1	Alarm Segment Hold		Ĩ	nAlm		08/04	/2017 0	7:08:3	9		1	1		stocka	st17minVe	n 330	7083808042017
2	Deviation	Alarm	ST Vent	1	Alarm Segment Hold			nAlm		08/04	/2017 1	1:41:1	0		1	1		op1	st17minVe	n 331	1410808042017
3	Deviation	Alarm	ST Vent	1	Alarm Segment Hold		0	DutAlm		08/04	/2017 1	1:41:3	1		0	1		op1	st17minVe	n 331	1410808042017
4	Deviation	Alarm	ST Vent	1	Alarm Segment Hold			Ack		08/04	/2017 1	1:41:3	4		0	1		op1	st17minVe	n 331	1410808042017
5	Deviation	Alarm	ST ComeUp	2	Alarm Segment Hold			nAlm		08/04	/2017 1	1:58:2	9		1	1		op1	st17minVe	n 331	1410808042017
- 6	Deviation	Alarm	ST ComeUp	2	Alarm Segment Hold					08/04	/2017 1	1:58:4	1		0	1		op1	st17minVe	n 331	1410808042017
7	Deviation	Alarm	ST ComeUp	2	Alarm Segment Hold			DutAlm		08/04	/2017 1	1:58:4	1		0	1		op1	st17minVe	n 331	1410808042017
, 0	Deviation	Deviation	ST	3	Chart Temp > Ref Temp			nAlm		08/04	/2017 1	2:02:4	14		1	1	I	op1	t17minVe	n 331	1410808042017
。 。	Deviation	Deviation	Sterilization ST	3	Deviation Chart Temp > Ref Temp			Ack		08/04	/2017 1	2:02:6	50		1	1		op1	t17minVe	n 331	1410808042017
9	Deviation	Alarm	Sterilization ST Sterilization	3	Deviation Temperature/Pressure N	lismato	h I	nAim		08/04	/2017 1	2:06:0	2		1	1		001	st17minVe	n 331	1410808042017
U 1	Deviation	Alarm	ST Sterilization	з	Temperature/Pressure N	lismato	h A	Ack		08/04	/2017 1	2:06:1	1		1	1		op1	st17minVe	n 331	1410808042017
1	Deviation	Alarm	ST Sterilization	3	Temperature/Pressure N	lismato	h (DutAlm		08/04	/2017 1	2:06:2	7		0	1		001	st17minVe	n 331	1410808042017
2	Deviation	Alarm	ST Vent	1	Vent Time Exceeded			nAlm		08/04	/2017 1	4.08.0	4		0			on1	st17minVe	n 331	3510308042017
3	Deviation	Alarm	ST Vent	1	Vent Time Exceeded			Ack		08/04	/2017 1	4.08.1	5		0			ont	st17min\/s	. 321	3510308042017
4	Deviation	Alarm	ST Vent		Vent Time Exceeded			nun Dut∆lee		09/04	/2017 4	4-10-2			ő			001	st17mieV/s	. 331	2510202042017
5	Deviation	Daviation	or vent	2	Chart Tame & Def Tame	_		- Aler		00/04	2017 1	F-10:2			4			opi	Ad Zania Ma	. 331	2540200042017
6	Deviation	Deviation	Sterilization	3	Deviation			nAim		08/04	2017 1	0:01:1	13		1	1		орт	ci / minVe	n 331	351030804201/
7	Deviation	Deviation	SI Sterilization	3	Chart Temp > Ref Temp Deviation	0		Ack		08/04	/2017 1	5:01:2	21		1	1		op1	t17minVe	n 331	3510308042017
8	Deviation	Deviation	ST Vent	1	Deviation Lo Initial Ten	np	1	nAlm		08/04	/2017 1	5:57:2	22		1	1		Guest	t17minVe	n 331	5535208042017

Figure 15b – Alarm Report

Alarm Report Header

The alarm report header is displayed on every page and it contains the information that was used to filter the request. Each page header contains the following information. (See figure 16)

ICON RMS Alarm Report

Report Filt	er											
Start Date	/ Time: 4/27/2010 5:00	00 AM En	d Date / Time: 4/29/20	10 1:40:00 F	M	Retorts: 2,4,6		Priority: Devi	iation,Alarm	Status: InAlm,OutAlm	Desc: Paus	se
Retort: 2												
Recipe	Batch Id	Process Status	Alarm Time	Duration	Seg	Phase	Status	Priority	Description	Process Value	Alarm Limit	User Name
OP61	0205574704272010	Deviation	04/27/10 06:09:41		1	HSV	InAim	Deviation	Deviation Process Pa	use 1	1	jcardenas
OP61	0205574704272010	Deviation	04/27/10 06:09:41		1	HSV	InAlm	Alarm	Alarm Process Pause	1	1	jcardenas
OP61	0205574704272010	Deviation	04/27/10 06:09:49	80:00:00	1	HSV	OutAlm	Alarm	Alarm Process Pause	0	1	jcardenas
OP61	0205574704272010	Deviation	04/27/10 06:09:49	00:00:08	1	HSV	OutAim	Deviation	Deviation Process Pa	use 0	1	jcardenas
OP41	0217370004282010	Deviation	04/28/10 18:13:44		4	Come up	InAlm	Deviation	Deviation Process Pa	use 1	1	jcardenas
				Fi	gur	e 16 – Ala	rm Repo	ort Head	er			



Alarm Report Header Fields

Start Date/Time	Start Date/Time of the search. The date/time used for the filter is the start time of the alarms.
End Date/Time	End Date/Time of the search. The date/ time used for the filter is the end time of the alarms.
Retorts	Selected retorts for the search.
Priority	Selected alarm priority for the search. Priority options are: Deviation, Alarm and Warning.
Status	Selected alarm status for the search. The alarm status options are: InAlm, OutAlm and Ack.
Desc	Alarm description used to filter.

Alarm Report

The Alarm Report displays all the alarm information that occurred for the search criteria. The report is group by Retort and sorted by Retort and the alarm date/time. The report also highlights any deviation alarms by displaying the text in bold. (See figure 16)

Alarm Report Alarm Fields

Retort	Retort Id
Recipe	Recipe Name
Batch Id	Batch Id in which the alarm occurred
Process Status	Status of the process, if process completed, aborted, or Deviation
Alarm Time	Date/Time of the alarm status
Seg	Step or Segment in which an alarm occurred
Phase	Phase in which an alarm occurred
Status	InAlm – In Alarm when the condition goes into alarm
	OutAlm – Out of Alarm when the condition goes out of alarm
	Ack –Time the retort operator acknowledged the alarm event
Priority	Deviation
	Alarm
	Warning
Description	Description of the alarm condition
Process Value	Process Value which triggered the alarm. For Digital or On/Off alarms the value will be one.
Alarm Limit	Alarm Setpoint. For Digital or On/Off alarms the value will be 1
Username	Name of the user logged into the system at the time of the event

Summary Batch Report

Summary Batch Report Filter

The summary batch report provides a filter to search the batches based on the following fields: (See figure 28)

Batch Start Time:	Start time of the filtered date range search.
Batch End Time:	End time of the filtered date range search.



Retort:	Filters the search by the selected retorts. To select multiple retorts, hold the shift key while selecting the retorts.
Request Cooks:	Begins the search based on the selected fields. When the page is initially loaded, the system will display the information on all retorts for the current day.

Summary B	Batch Report							
Start Time:	08/08/2017 00:00:00	-	End Time:	08/09/2017 00:00:00	-	Recipe:	All	-
Retort:	All	•	Review Status:	All	*	Batch Status:	All	*
	Retort 1							
	Retort 2							
	Retort 3							
	Retort 4							
	Retort 5	*						
				Request Cooks				

Figure 28 – Summary Batch Report Filter

Summary Batch Report

The request cooks populate the grid information shown below on the grid. The grid data can be exported to excel or pdf. The summary batch report displays the summary information for all the cooks for the filter criteria. The status field will show if a cook was completed, aborted or deviation; then the status of a cook is aborted or deviated the record or row will be show red. The report is grouped by Product Code or Recipe Name, Recipe Revision and by Flavor/Batch. (See figure 29). The purpose of the report is to summarize all the cooks by displaying the most important critical factors.



Summary Batch Report

Start Time:	09/25/2017 0	0:00:00 👻		End Time:	09/27/2017 00:00:00	•	Recip	e: All	All				
Retort:	All	-	Revi	ew Status:	All		Ba	tch Stat	us: All				-
	Retort 1												
	Retort 2	_											
	Retort 3												
	Retort 4	-											
	Retort 5		Request Cooks										
ā													
	Export T	o PDF			Export To XLS			S	ummai	ry Batc	h Repo	ort	
Batch #	Status Rotomat Batch Id		R#	Start Time	Total CUT	Cook Time	PV Temp (F)	R. Temp (F)	Chart	Press (psi)	PV Lvl (%)	RPM	
9	9	9									2		8
	Deviation	0309040609252017	3	09/25/201 09:04:52	.7 00:13:27	00:11:36	250.4	251.7	250.5	33	72	19.2	*
	Deviation	0810451909252017	8	09/25/201 10:46:49	.7 00:13:47	00:25:19	250.3	251.4	250	34.1	74.8	19.3	
	Completed	0113365209252017	1	09/25/201 13:37:47	.7 00:13:20	00:43:45	250.2	251.3	250	34.1	75.5	19.3	
	Completed	0213550009252017	2	09/25/201 13:56:20	.7 00:13:55	00:42:32	250.2	251.1	250	34.8	75.2	19.4	
	Aborted	0314035009252017	3										
	Completed	0514115109252017	5	09/25/201 14:28:01	.7 00:13:29	00:42:32	250.2	251.3	250	35.6	75.3	19.3	
	Aborted	0314193409252017	3										-



irt	Time: 09/25/2017 00:00 End Time: 09/27/2017 00:00 Recipe: All						Ret	orts: All				Review	Status:	All Batch Status: All
ncij	pe: OP 83	Revisio	on: 1		Flavor:									
tem	Status	Rotomat Batch Id	R#	IT Temp (F)	Start Time	Total Cut (hh:mm:ss)	Cook Time (hh:mm:ss)	PV Temp (F)	TID Temp (F)	Chart (F)	Press ((psi)	∾ Lvl (%)	RPM	
	Deviation	0810451909252017	8	130	09/25/17 10:46:49	00:13:47	00:25:19	250.3	251.4	250.0	34.1	74.8	19.3	
	Completed	0113365209252017	1	147	09/25/17 13:37:47	00:13:20	00:43:45	250.2	251.3	250.0	34.1	75.5	19.3	
	Completed	0213550009252017	2	153	09/25/17 13:56:20	00:13:55	00:42:32	250.2	251.1	250.0	34.8	75.2	19.4	
	Aborted	0314035009252017	3											
	Completed	0514115109252017	5	157	09/25/17 14:28:01	00:13:29	00:42:32	250.2	251.3	250.0	35.6	75.3	19.3	
	Aborted	0314193409252017	3											
	Deviation	0314265109252017	3		09/25/17 14:27:46	00:13:18								
	Completed	0614300609252017	6	157	09/25/17 14:31:17	00:13:40	00:42:32	250.1	251.5	250.0	35.2	74.8	19.4	
	Completed	0714371709252017	7	154	09/25/17 14:38:22	00:13:20	00:42:32	250.2	251.4	250.0	34.3	74.9	19.3	
0	Completed	0815534709252017	8	135	09/25/17 15:55:24	00:13:15	00:44:45	250.2	251.2	250.0	34.3	74.4	19.3	
1	Completed	0116042809252017	1	151	09/25/17 16:06:35	00:13:09	00:42:32	250.1	251.3	250.0	33.8	74.4	19.3	
2	Deviation	0216165109252017	2	152	09/25/17 16:21:05	00:13:49	00:42:32	250.1	251.3	254.0	34.0	74.9	19.3	
3	Completed	0316214809252017	3	120	09/25/17 16:34:00	00:13:16	00:45:30	250.2	251.3	250.0	35.1	75.7	19.2	
4	Completed	0516265209252017	5	160	09/25/17 16:27:46	00:13:20	00:42:32	250.2	251.3	250.0	34.6	75.6	19.2	
5	Completed	0616404709252017	6	154	09/25/17 16:42:28	00:13:15	00:42:32	250.1	251.4	250.0	35.1	75.6	19.4	
6	Completed	0716573309252017	7	155	09/25/17 16:59:12	00:13:09	00:42:32	250.2	251.4	250.0	33.8	75.6	19.3	
7	Completed	0817151009252017	8	150	09/25/17 17:21:38	00:13:28	00:42:32	250.2	251.2	250.0	36.0	75.6	19.3	
8	Completed	0117220509252017	1	153	09/25/17 17:25:19	00:13:14	00:42:32	250.2	251.3	250.0	36.0	75.6	19.3	
9	Completed	0218030509252017	2	150	09/25/17 18:09:08	00:13:43	00:42:32	250.1	251.2	250.0	34.0	75.7	19.4	
0	Completed	0319132909252017	3	146	09/25/17 19:15:12	00:13:19	00:43:45	250.1	251.4	250.0	34.6	75.5	19.2	
1	Completed	0519165009252017	5	154	09/25/17 19:18:04	00:13:35	00:42:32	250.2	251.3	250.0	34.6	75.7	19.3	
2	Completed	0619243609252017	6	157	09/25/17 19:25:55	00:13:10	00:42:32	250.2	251.5	250.0	33.9	75.3	19.3	
3	Completed	0719373509252017	7	159	09/25/17 19:39:25	00:13:14	00:42:32	250.2	251.4	250.0	34.2	75.7	19.3	
4	Completed	0819484009252017	8	158	09/25/17 19:51:39	00:13:29	00:42:32	250.2	251.2	250.0	34.0	75.1	19.3	
5	Completed	0120004609252017	1	154	09/25/17 20:03:21	00:13:14	00:42:32	250.2	251.3	250.0	33.9	74.5	19.4	
26	Completed	0220104909252017	2	158	09/25/17 20:11:46	00:13:34	00:42:32	250.2	251.3	250.0	33.6	75.2	19.4	
7	Completed	0520324709252017	5	156	09/25/17 20:38:17	00:13:33	00:42:32	250.2	251.3	250.0	33.7	75.2	19.3	
8	Completed	0320500709252017	3	158	09/25/17 20:52:51	00:13:14	00:42:32	250.1	251.3	250.0	34.4	75.9	19.2	
9	Completed	0621033109252017	6	155	09/25/17 21:05:16	00:13:10	00:42:32	250.2	251.4	250.0	34.2	74.4	19.3	
0	Completed	0721161809252017	7	154	09/25/17 21:21:37	00:13:13	00:42:32	250.2	251.4	250.0	35.3	74	19.3	
1	Completed	0822322609252017	8	144	09/25/17 22:33:59	00:13:16	00:43:45	250.2	251.2	250.0	34.4	73.7	19.3	

Figure 29 – Summary Batch Report

Summary Batch Report Fields

The summary batch report contains the following fields.

Product Code	Recipe Name
Revision	Recipe revision number
Flavor / Batch	User entry at the start of the cook. The alphanumeric value can contain a maximum of 15
	characters.
Item	Auto Increment Number, it provides a line number for the report group. The report group
	fields are Prod Code, Revision and Flavor/Batch. When there is a change on any of the report
	group fields the item number will start from 1 again.
Status	Shows if the cook was completed, aborted or is there was any deviation alarm. If record was
	aborted or deviated the text will be displayed red
Batch	Batch Id is an automatically generated and unique identification used to identify the cook. The
	number is assigned at the beginning of each cook.



	The number represents: RRHHMISSMMDDYYYY
	RR – Retort number
	HH – Hour of start of batch
	MI – Minutes of start of batch
	SS – Seconds of start of batch
	MM – Month of start of batch
	DD – Day of start of batch
	YYYY – Year of start of batch
Retort	Retort Id (numerical)
IT Temp (F)	Initial Temperature entered by the user.
Start Time	Cook Start time
Total CUT	Sum of the total CUT times for the cook (hh:mm:ss)
Cook Time	Time of the sterilization step (hh:mm:ss)
PV Temp (F)t	Retort Temperature at the time of the user inputs
TID Temp (F)	Temperature Indicating Device user Input
Chart (F)	Chart Temperature user Input
Press (psi)	PV Pressure at the time of the user inputs
PV Lvl	PV water level at the time of the user inputs
RPM	Rotor Speed at the time of the user inputs

Recipe Report

The selection of this option from the menu will display a list of recipes. The list is grouped by process mode. It is sorted by process mode, recipe type, recipe name and revision. In order to select the desired recipe(s), the user must click the checkbox(es) next to the recipe(s) of interest (see figure 23). The recipe list selection can be filter by using the filter fields which are on the first row of the grid the filter critirea is contains. If desired, the user may also filter the alarm configuration of the report by checking the option "Hide Alarm Parameters". After the desired recipe(s) are selected, press the "Request Report" button. This action displays a new web page which contains the requested report in PDF format. (See figure 24).



S														
Home	Rep	orts	Trend	Recipe	Configuration	Login	Logout							
							Recipe List							
		Select Recipe for Printing												
	p,	Process Mode												
		ocess				1								
		#	Recipe		Contnr Size	Revision	Description	Prod Type 💡						
	۵	Proce	ess Mode: Ste	am										
			Country Styl	le 16 oz.	300X407	1	Country Style Beans 300X407	Experimental						
			Country Styl 28 oz	le Beans	300X407	1	Country Style Beans 307X512	Experimental						
			StockTest		12	1	Stock Test Recipe	Experimental						
			StockTest17	minVent	12	1	Stock Test Recipe	Experimental						
							Hide Alarm Parameters							
							Request Recipe Report							

Figure 23 – Recipe Select

	aseline Recipe			Rev: 0	Cri	ated Date	: 7/11/2016 4:12:45 PM	4:12:45 PM By: Margo Duckson Type: Development						
Description: Baseline Recipe 3. Changes to Initial TD														
Comments: R	emoved Ramp co	mpletely	from C	U1 step.										
Procs Mode: W	Vater Immersion		c	ontaine	r: Glass	3 15.50Z	(ty: 3780	80 Motion: Rotation					
User Inputs	Interval 1%: 30	1	interval :	2%: N	/ A	Interval 3%	6: N / A Min IT (F):	0	V Pro	cess Ta	ble	Energy	Mode	
					Se	ament l	Parameters							
Seg # 1	HSV													
			Upper	Lower	Delay	Alarm	_			Upper	Lower	Delay	Alarm	
Parameter	Value	Units	Tol	Tol	Sec	Enabled	Parameter	Value	Units	Tol	Tol	Sec	Enabled	
SV Temperature	270.0	F	6.0	6.0	20	~	SV Level	85	%	0.0	0.0	0		
System Press	35.0	PSI	7.0	10.0	10	~	Rotor Speed	0.0	RPM	0.0	0.0	0		
Segment Hold	1		0.0	0.0	0		PG #1	0		0.0	0.0	0		
PG #2	0		0.0	0.0	0		PG #3	0		0.0	0.0	0		
Seg # 2	Come Up - Vent													
Parameter	Value	Units	Upper Tol	Lower Tol	Delay Sec	Alarm Enabled	Parameter	Value	Units	Upper Tol	Lower Tol	Delay Sec	Alarm Enabled	
PV Temperature	0.0	F	0.0	0.0	0		PV Temp Ramp	0.0	FPM	0.0	0.0	0		
System Press	30.0	PSI	7.0	6.0	2	~	System Press Ramp	0.0	PPM	0.0	0.0	0		
PV Level	80	%	0.0	0.0	0		PV Conn Valve Pos	100	%	0.0	0.0	0		
Rotor Speed	9.0	RPM	1.0	1.0	15	~	Segment Minutes	2	MIN	0.0	0.0	0		
		SEC	0.0	0.0	0		PG #1	0		0.0	0.0	0	Ē	
Segment Seconds	s 40													

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Figure 24– Recipe Report

Recipe Report Header

Each recipe report contains a report header (See figure 24). Headers are displayed on every page with the following information pertaining to the recipe revision.

Recipe	Recipe name
Revision	Recipe revision number
Created Date	Recipe created date
Ву	User that created the recipe
Туре:	Type of recipe; Developmental, Experimental or Production
Description	Recipe revision description
Comments:	Recipe revision comments
Procs Mode	Process mode
Container	Container type and size
Qty	Container quantity
Motion	Type of agitation (rotation, oscillation, static) used in recipe
User Inputs	User inputs required
User Input Intervals	Percentage of time within the cook segment that the user will be prompted to enter user inputs
Process Table	Indicates if process tables are used in the recipe (may not be applicable)
Min IT	Minimum IT value allow, any value below this entry will cause an alarm and system deviation.
Energy Mode	Indicates if energy saving mode is enabled

Recipe Report Fields

Recipe Report Segment Parameters

The Segment Parameters section of the report displays information about the segments of the recipe. It displays the segment number, phase description, parameters with their setpoint values and their alarm tolerances, alarm delays and enabled checkbox. (See figure 25)

	Segment Parameters												
Seg # 1 ST Vent													
Parameter	Value	Units	Upper Tol	Lower Tol	Delay Sec	Alarm Enabled	Parameter	Value	Units	Upper Tol	Lower Tol	Delay Sec	Alarm Enabled
PV Temperature	218.0	F	30.0	0.0	5	~	Segment Minutes	6	MIN	0.0	0.0	0	
Segment Seconds	0	SEC	0.0	0.0	0		Segment Hold	0		0.0	0.0	0	
PG #1	0		0.0	0.0	0		PG #2	0		0.0	0.0	0	
PG #3	0		0.0	0.0	0								

Figure 25 – Recipe Report Alarm Parameters

Recipe Report Process Table

The Process Table section can display two different options the free form table or the Ball method matrix. Figure 26a shows the free form which is a 5 X 5 matrix of the process table configured in the recipe. The top row displays the retort temperature and the first column displays the initial temperature. The segment time is displayed in Minutes : Seconds.

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Figure 26b shows the process table for the ball method which shows a section for the heating factors and the 10 X 10 Matrix.

		245.00	247.00	247.00	247.00	247.00	.00	.00	.00	.00	.00
	120.00	115:00	115:00	115:00	115:00	115:00	0:0	0:0	0:0	0:0	0:0
	140.00	110:00	110:00	110:00	110:00	110:00	0:0	0:0	0:0	0:0	0:0
ge (F)	160.00	105:00	105:00	105:00	105:00	105:00	0:0	0:0	0:0	0:0	0:0
e Ranç	170.00	105:00	105:00	105:00	105:00	105:00	0:0	0:0	0:0	0:0	0:0
eratur	170.00	105:00	105:00	105:00	105:00	105:00	0:0	0:0	0:0	0:0	0:0
Temp	.00	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
Initia	.00	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
	.00	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
	.00	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
	.00	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0

Table Temperature Range (F)

Segment Time in Minutes : Seconds

Figure 26a – Recipe Report Process Tables Free Form

		Process 1	Table		
z-Value: 18.00	Ref Temp: 250.00	m+g:	180.00	F-Value: 6.00	fh: 20.58
jh: 0.94	xbh: 31.09	f2:	45.13	fc: 20.58	Procs Correction %: 0.00
		Min	Max		
	Retort Temperature Range (F):	245.00	255.00		
	Initial Temperature Range (F):	70.00	160.00		

Table	Tempera	ture	Range	(F)
-------	---------	------	-------	-----

		245.00	246.10	247.20	248.30	249.40	250.50	251.60	252.70	253.80	255.00
	70.00	41:57	39:49	37:53	36:09	34:36	33:11	31:56	30:58	29:59	29:00
	80.00	41:15	39:09	37:15	35:32	34:00	32:37	31:22	30:28	29:29	28:30
ge (F)	90.00	40:33	38:27	36:34	34:53	33:22	32:00	30:59	29:56	28:57	27:58
e Ran	100.00	39:48	37:44	35:52	34:12	32:43	31:23	30:25	29:22	28:23	27:25
peratur	110.00	39:00	36:58	35:08	33:30	32:02	30:57	29:48	28:45	27:47	26:49
l Temp	120.00	38:11	36:10	34:22	32:45	31:19	30:17	29:09	28:06	27:09	26:11
Initia	130.00	37:18	35:19	33:32	31:58	30:49	29:35	28:27	27:24	26:27	25:30
	140.00	36:21	34:24	32:40	31:07	30:02	28:48	27:41	26:39	25:42	24:45
	150.00	35:20	33:26	31:44	30:31	29:10	27:57	26:50	25:49	24:53	23:56
	160.00	34:14	32:22	31:00	29:33	28:14	27:01	25:55	24:54	23:58	23:02
	160.00	34:14	32:22	31:00	29:33	28:14	27:01	25:55	24:54	23:58	23:02

Segment Time in Minutes : Seconds

Figure 26b – Recipe Report Process Tables Ball Method

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Production Report

The production reports show number of containers and total number of runs for the retorts. By default, the page will display the information for the actual production day but the user can change the time frame if desired. The information is Group or Summarize by Production Date, Recipe and Retorts. See image below.

Start Time:	Start time of the filtered date range search.
End Time:	End time of the filtered date range search.
Retort:	Filters the search by the selected retorts. To select multiple retorts, hold the shift key while selecting the retorts.
Recipe:	Pull down list of the available recipes
Request Production	Populate the grid this of information
Data:	
Request PDF Report:	Production report is render as PDF,

The following filters are provided to search for the production

<u>s</u> s:											
Home	Reports	Trend	Recipe	Configurat	on	Login	Logout				Use
		D 1 4	D (5'								
		Production	n Report Fil	ter							
		Start Time:	08/01/201	7 00:00:00		▼ End Tim	ne: 08/09/2017 00	.00:00	Recipe:	All 👻	
		Retort:	All								
			Retort 33								
			Retort 36			Red	quest Production D	ata	Reque	st PDF Report	
								-			
						Retort	9	Production	Num Runs		
							9				
				(2)	Date	: 8/2/2017 12	2:00:00 AM (Sum=1	234, Sum=1)			
					۷	Recipe: Stoc	kTest (Sum=1234, S	um=1)			
						Retort 33		1234	1		
				Ø	Date	: 8/3/2017 12	2:00:00 AM (Sum=9	872, Sum=8)			
					9	Recipe: Stoc	kTest (Sum=3702, S	um=3)			
						Retort 33		3702	3		
					(1)	Recipe: Stoc	kTest17minVent (Su	m=6170, Sum=	=5)		
						Retort 33		3702	3		
						Ketort 36		2468	2		



Grid Production Report

The production report can also be requested has a PDF report by pressing the button Request PDF Report which presents the same information but on a formatted pdf report. See image below for an example.

tart Time: 09/30/2013 00:00:00	End Time: 10/0	2/13 00:00:00	Recip	e: All
duction For: 09/30/2013				
Recipe:1060				
Retort	Prod Count	Total Runs		
Retort 1	14,400	6		
Retort 2	16,800	7		
Retort 3	16,800	7		
Retort 4	16,800	7		
Retort 5	26,400	11		
Retort 6	14,400	6		
Retort 7	14,400	6		
Retort 8	14,400	6		
Total For: 1060	134,400	56		
Recipe:1068				
Retort	Prod Count	Total Runs		
Retort 1	2,400	1		
Retort 2	2,400	1		
Retort 3	2,400	1		
Retort 4	2,400	1		
Retort 5	2,400	1		
Retort 6	2,400	1		
Retort 7	2,400	1		
Retort 8	2,400	1		
Total For: 1068	10,200			
otal For: 09/30/2013	15,200	64		
reduction For 10/01/2012	153,600	04		
Recipe: 1068				
Retort	Prod Count	Total Runs		
Retort 1	40.800	17		
Retort 2	38,400	16		
Retort 3	36,000	15		
Retort 4	19,200			
Retort 5	19,200	17		
Retort 6	40,800	17		
Retort 7	38,400	16		
Retort 8	38,400	16		
	40,800	17		
Total For: 1068	292,800	122		
otal For: 10/01/2013	292,800	122		

PDF Production Report

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Recipe Download Status

Recipe Download Status Report Filter

The Recipe Download Status provides a filter to search recipe downloads based on the following fields: (See figure 27)

Start Time:	Start time of the filtered date range search.
End Time:	End time of the filtered date range search.
Retort:	Filters the search by the selected retorts. To select multiple retorts, hold the shift key while selecting the retorts.
Request Downloads:	Begins the search based on the selected fields. When the page is initially loaded, the system will display the information on all retorts for the current day.
Export to PDF:	Exports the recipe download status list to a PDF file.
Export to XLS:	Exports the recipe download status list to an Excel File format.

innovatik	/e sterilizatio	n solutions	uine Carfo		Lesia	Lengut					
ne	Reports	Irend K	ecipe Contig	uration	Login	Logout					
			Recipe D	ownload St	atus Report Fil	ter					
			Start Time	: 08/08/20	17 00:00:00	▼ End Time: 08/	09/2017 00:0	D:00 -			
			Retort:	All							
				Retort 33							
				netort st	,						
					Re	equest Downloads					
					Export To PDF	Export To	o XLS				
		Date / Time	Retort	Recipe	Contnr Size	Recipe Description	Rev	Recipe Type	Username	Status	
			1				,				
					Γ	io data to display					

Figure 27 – Recipe Download Status

The download information is presented on a grid. The first row contains filter fields which enables the user to enter text and filter the grid information. The user can enter the initial letters of what he/she is filtering. Alternatively, he/she can enter "%" as a wildcard. Figure 30 displays "%1". This will filter any retort number that contains a one (1). There is an implied wildcard character and the end of every filter. To clear the filter, remove the text from the filter field or click the clear link on the first column of the filter row.

The information presented in the grid consists of the following:





Date - Time	Date/Time when the recipe was downloaded
Retort	Retort in which the recipe was downloaded
Recipe	Name of the recipe downloaded
Recipe Description	Description of the recipe downloaded
Revision	Revision number of the recipe
Username	User that downloaded the recipe
Status	Indicates if the recipe was downloaded successfully or if it failed

Record Review Details

The record review details report shows the details of the record review actions performed by a record reviewer and the summary batch information. It shows who was the user who review the record, the time it was reviewed, action taken by the user whether not reviewed, reviewed, hold or released. The user can request the information based on the filters shown in the image below

Start Time:	09/25/2017 00:00:00	Ŧ	End Time:	09/27/2017 00:00:00	Ŧ	Recipe:	All	Ŧ
Retort:	All	•	Review Status:	All	▼ Batc	h Status:	All	Ŧ
	Retort 1							
	Retort 2							
	Retort 3							
	Retort 4							

Start Time:	Start time of the filtered date range search.
End Time:	End time of the filtered date range search.
Recipe:	Name of the recipe
Retort:	Filters the search by the selected retorts. To select multiple retorts, hold the shift key while selecting the retorts.
Review Status:	Action taken by the user when reviewing the batch record which are not reviewed, reviewed, hold or released
Batch Status:	Options are, All, Aborted, Completed or deviation

The report below is a sample showing various entries for record review. The review of the records is show under the row of each batch shown. Below is a description of the fields:



Record Review Details Report -

tch #	Status	Rotomat Batch Id	Recipe	Rev	R# 1	(T (F)	Start Time	Total Cut (hh:mm:ss)	Cook Time (hh:mm:ss)	PV Temp	TID Temp (E)	Chart (F)	Press (psi)	PV Lvi (%)	R
	Deviation	0309040609252017	OP 77	4	3	130	09/25/2017 09:04:52	00:13:27	00:11:36	250.4	251.7	250.5	33.00	72.00	19
Rev	iewed Statu	s Reviewed Da	ate	Review	ed By		Notes								
	Reviewed	09/26/2017 12:0	02:23	Stock Ar	nerica		Test record review								
	Hold	09/26/2017 12:0	03:02	Stock Ar	nerica		Test hold record review								
	Released	09/26/2017 12:0	03:27	Stock Ar	nerica		Test released record rev	riew							
	Released	09/26/2017 12:1	16:55	Stock America			Test released record rev	riew							
	Deviation	0810451000252017	00.83			120	00/25/2017 10:46:40	00.12.47	00.25.10	250.2	251.4	250.0	24.10	74 90	10
	Completed	0113365209252017	OP 83	1	1	147	09/25/2017 10:40:49	00:13:20	00:43:45	250.3	251.4	250.0	34.10	75.50	1
Rev	iewed Statu	s Reviewed Da	ate	Review	ed By	147	Notes	00.13.20	00.45.45	230.2	231.5	230.0	54.10	75.50	-
	Released	09/26/2017 12:0	03:52	Stock Ar	nerica										
	Completed	0213550009252017	OP 83	1	2	153	09/25/2017 13:56:20	00:13:55	00:42:32	250.2	251.1	250.0	34.80	75.20	1
	Aborted	0314035009252017	OP 83	1	3										-
	Completed	0514115109252017	OP 83	1	5	157	09/25/2017 14:28:01	00:13:29	00:42:32	250.2	251.3	250.0	35.60	75.30	1
	Aborted	0314193409252017	OP 83	1	3										_
	Deviation	0314265109252017	OP 83	1	3		09/25/2017 14:27:46	00:13:18							_
	Completed	0614300609252017	OP 83	1	6	157	09/25/2017 14:31:17	00:13:40	00:42:32	250.1	251.5	250.0	35.20	74.80	1
	Completed	0714371709252017	OP 83	1	7	154	09/25/2017 14:38:22	00:13:20	00:42:32	250.2	251.4	250.0	34.30	74.90	1
	Completed	0815534709252017	OP 83	1	8	135	09/25/2017 15:55:24	00:13:15	00:44:45	250.2	251.2	250.0	34.30	74.40	1
	Completed	0116042809252017	OP 83	1	1	151	09/25/2017 16:06:35	00:13:09	00:42:32	250.1	251.3	250.0	33.80	74.40	1
	Deviation	0216165109252017	OP 83	1	2	152	09/25/2017 16:21:05	00:13:49	00:42:32	250.1	251.3	254.0	34.00	74.90	1
	Completed	0316214809252017	OP 83	1	3	120	09/25/2017 16:34:00	00:13:16	00:45:30	250.2	251.3	250.0	35.10	75.70	1
	Completed	0516265209252017	OP 83	1	5	160	09/25/2017 16:27:46	00:13:20	00:42:32	250.2	251.3	250.0	34.60	75.60	1
	Completed	0616404709252017	OP 83	1	6	154	09/25/2017 16:42:28	00:13:15	00:42:32	250.1	251.4	250.0	35.10	75.60	1
	Completed	0716573309252017	OP 83	1	7	155	09/25/2017 16:59:12	00:13:09	00:42:32	250.2	251.4	250.0	33.80	75.60	1
	Completed	0817151009252017	OP 83	1	8	150	09/25/2017 17:21:38	00:13:28	00:42:32	250.2	251.2	250.0	36.00	75.60	1
	Completed	0117220509252017	OP 83	1	1	153	09/25/2017 17:25:19	00:13:14	00:42:32	250.2	251.3	250.0	36.00	75.60	1
	Completed	0218030509252017	OP 83	1	2	150	09/25/2017 18:09:08	00:13:43	00:42:32	250.1	251.2	250.0	34.00	75.70	1
	Completed	0319132909252017	OP 83	1	3	146	09/25/2017 19:15:12	00:13:19	00:43:45	250.1	251.4	250.0	34.60	75.50	1
	Completed	0519165009252017	OP 83	1	5	154	09/25/2017 19:18:04	00:13:35	00:42:32	250.2	251.3	250.0	34.60	75.70	1
	Completed	0619243609252017	OP 83	1	6	157	09/25/2017 19:25:55	00:13:10	00:42:32	250.2	251.5	250.0	33.90	75.30	1
	Completed	0719373509252017	OP 83	1	7	159	09/25/2017 19:39:25	00:13:14	00:42:32	250.2	251.4	250.0	34.20	75.70	1
	Completed	0819484009252017	OP 83	1	8	158	09/25/2017 19:51:39	00:13:29	00:42:32	250.2	251.2	250.0	34.00	75.10	1
	Completed	0120004609252017	OP 83	1	1	154	09/25/2017 20:03:21	00:13:14	00:42:32	250.2	251.3	250.0	33.90	74.50	1
	Completed	0220104909252017	OP 83	1	2	158	09/25/2017 20:11:46	00:13:34	00:42:32	250.2	251.3	250.0	33.60	75.20	1
	Completed	0520324709252017	OP 83	1	5	120	09/25/201/ 20:38:1/	00:13:33	00:42:32	250.2	251.3	250.0	33.70	/5.20	1

Record Review Detail Report Fields

The summary batch report contains the following fields.

Batch #	User entry at the start of the cook. The alphanumeric value can contain a maximum of 15
	characters.
Status	Shows if the cook was completed, aborted or is there was any deviation alarm. If record was
	aborted or deviated the text will be displayed red
Batch	Batch Id is an automatically generated and unique identification used to identify the cook. The
	number is assigned at the beginning of each cook.
	The number represents: RRHHMISSMMDDYYYY
	RR – Retort number
	HH – Hour of start of batch
	MI – Minutes of start of batch
	SS – Seconds of start of batch



	MM – Month of start of batch
	DD – Day of start of batch
	YYYY – Year of start of batch
Recipe	Recipe Name
Revision	Recipe revision number
Retort	Retort Id (numerical)
IT Temp (F)	Initial Temperature entered by the user.
Start Time	Cook Start time
Total CUT	Sum of the total CUT times for the cook (hh:mm:ss)
Cook Time	Time of the sterilization step (hh:mm:ss)
PV Temp (F)t	Retort Temperature at the time of the user inputs
TID Temp (F)	Temperature Indicating Device user Input
Chart (F)	Chart Temperature user Input
Press (psi)	PV Pressure at the time of the user inputs
PV Lvl	PV water level at the time of the user inputs
RPM	Rotor Speed at the time of the user inputs
Review Status	Shows if cook was reviewed, not reviewed, hold, released
Reviewed Date	Date and Time when the cook was reviewed
Reviewed By	User who reviewed the record.
Notes	User can enter any notes he desires.



Trend

The trend option from the menu enables the user to request a process trend by filtering the search of batches based on the following fields: (see figure 17)

S Innovativ	e sterilization												User
Home	Reports	Trend	Recipe	Configuration	Login	Log	out						User
		Tren Start Reto	d Filter : Time: 08/0 vrt: Reto	07/2017 00:00:00 ort 33	• • Request Generat	End Time: t Cooks te Trend	08/08/	2017 00:00:00		•			
Retort	Batch Id		Batch Start	B	Batch End		Recip	e		Rev		Flavor/Batch	
		9							9		9		9
					No data t	to display							

Figure 17 – Trend Report

Trend Fields

Batch Start Time:	Start time of the search. The time used for the filter is the start time of the batch.
Retort:	Filters the search by the retort selected
Request Cooks:	Starts the batch search based on the selected fields



	Tren	d Recipe	Confi	guration	Login	Logout					
				-	-						
			Trend Fi	lter							
			Start Tim	ne: 08/04/20	17 00:00:0	0 🔻 End Ti	me: 08/09/2017 00:00):00	*		
			Retort:	Retort 36		•					
						Request Cooks					
						nequest cooks					
						nequest cooks					
						Request Cooks					
						Generate Trend					
						Generate Trend					
						Generate Trend					
Reto	rt I	Batch Id	Ва	tch Start		Generate Trend	Recipe		Rev	Flavor/Batch	
Reto	rt I	Batch Id	Ba	tch Start		Generate Trend	Recipe	9	Rev	Flavor/Batch	9
Reto	rt 	Batch Id 36141026080420	Ва Р 117 08	tch Start /04/2017 14:1	0:26	Generate Trend Batch End 08/04/2017 15:08:04	Recipe	₽ Vent	Rev	Flavor/Batch	9
Reto Reto Reto	rt [rt 36 3 rt 36 3	Batch Id 36141026080420 36151255080420	Ba 9 117 08	tch Start /04/2017 14:1 /04/2017 15:1	0:26	Generate Trend Batch End 08/04/2017 15:08:04	Recipe	/ent /ent	Rev 9	Flavor/Batch	9
Reto Reto Reto Reto	rt rt 36 : rt 36 : rt 36 :	Batch Id 36141026080420 36151255080420 36172325080420	Ba 9 117 08 117 08	tch Start /04/2017 14:1 /04/2017 15:1 /04/2017 17:2	0:26 2:55 3:25	Generate Trend Batch End 08/04/2017 15:08:04 08/04/2017 15:52:44 08/04/2017 17:34:09	Recipe StockTest17min/ StockTest17min/ StockTest17min/	/ent /ent /ent	Rev 9	Flavor/Batch	Ŷ

Figure 18 – Trend Report

After the user has requested the cooks then he can select the desired batch or cook and press the generate trend button to render the process trend data like the image in figure 19



Figure 19 – Process Trend



Templates:	Stock Temp	late	•	#	Pen Id	Description	YAxis	Pane	Units	Pen Color
Name:	Stock Temp	late		Edit	1	SV Temp	None	None	F	0
Description:	Default Sto	ck Template		Edit	2	SV Press	None	None	psi	0
				Edit	3	SV Level	None	None	%	#CCFFCC
Load	ens	Clear Fields	Save New	Edit	4	PV Temp	Y1	Pane 1	F	#993300
Upda	ite	Delete		Edit	5	Sys Press	Y2	Pane 1	psi	#808080
				Edit	6	Flow	Y2	Pane 2	gpm	#33CCCC
Update Chart Data To XLS Print To PDF			Edit	7	Rotor Speed	Y1	Pane 2	rpm	#99CC00	
			Print To PDF	Edit	8	PV Level	Y1	Pane 2	%	#000080
					-				-	-

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Icon^{SMS} User Guide

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The trend page allows the user to interact with the trend configuration. The trend user interactions are the followings:

• User can select an area on the trend to display a pen marker which is a legend showing the process values. See image below, the violet vertical line shows the point the user selects by moving their mouse over the chart showing timestamp and values of the process.



Figure 20 – Pen Marker

- User can configure what pens or data point he will like to graph and each pen can be configured with the following options:
 - Pane The panes is a rectangular area used to display axes. The user has a selection of 3 options.
 Pane 1 is the top area of the chart, Pane 2 is the bottom are of the chart, none when the pen will not be graph. Each Pane has 2 Y axis.
 - Y Axis The user can select from 3 Y Axis options, Y1 is the axis on the left of the selected pane, Y2 is the axis on the right of the selected and None when the pen will not be graph.
 - Pen Color User can configure the color of the pen.

#	Pen Id	Description	YAxis	Pane	Units	Pen Color	
<u>Edit</u>	1	SV Temp	None	None	F	0	
Edit	2	SV Press	None	None	psi	0	
Edit	3	SV Level	None	None	%	#CCFFCC	
Edit	4	PV Temp	Y1	Pane 1	F	#993300	
Edit	5	Sys Press	Y2	Pane 1	psi	#808080	
Edit	6	Flow	Y2	Pane 2	gpm	#33CCCC	
Edit	7	Rotor Speed	Y1	Pane 2	rpm	#99CC00	
Edit	8	PV Level	Y1	Pane 2	%	#000080	
	-				-	-	

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• Template - The pen configuration can be save by the user by creating templates so they can be loaded for future used. This template helps when trying to analyze the different datasets.

Ten	nplates:	Stock Temp	late	-	
Nan	ne:	Stock Temp	late		
Des	cription:	Default Sto	ck Template		
	Load P	ens	Clear Fields		Save New
	Update		Delete		

• The PDF and excel data displays a header with the batch id and additional information grouped by segment. The grouped segment displays the date/time stamp, the segment time in seconds and the process data (PV Temp, PV Press, etc.) at the end of each segment group. The information is summarized and displays the minimum and maximum values of the process data. (see images below).

Frend Data for Batch Id:0100570210022013								
Date / Time	Seg Time	PV Temp	PV Press	Flow	PV Level	Rotor Speed		
rocess Id: 0100570210022013								
Seg Id: 1								
Phase Desc: HSV								
10/02/2013 00:57:09	7	90.1	0.3	0.0	6	0		
10/02/2013 00:57:15	13	89.9	0.3	0.0	6	0		
10/02/2013 00:57:21	19	89.9	0.3	0.0	6	0		
10/02/2013 00:57:27	25	90.1	0.3	0.0	6	0		
10/02/2013 00:57:33	31	90.3	0.3	0.0	6	0		
10/02/2013 00:57:39	37	90.6	0.3	0.0	6	0		
10/02/2013 00:57:44	43	90.8	0.3	0.0	6	0		
10/02/2013 00:57:50	49	91.1	0.3	0.0	6	0		
10/02/2013 00:57:56	55	91.3	0.3	0.0	6	0		
10/02/2013 00:58:02	61	91.6	0.3	0.0	6	0		
10/02/2013 00:58:07	66	91.7	0.3	66.0	6	0		
		Min is 89.9	Min is 0.3	Min is 0	Min is 6	Min is 0		
		Max is 91.7	Max is 0.3	Max is 66	Max is 6	Max is 0		

Figure 21 – Exporting Data to PDF Report



	ABC D	E	F	G	Н	-	J
1	Date / Time	Seg Time	PV Temp	PV Press	Flow	PV Level	Rotor Speed
2	Process Id: 010057021002201	3					
3	Seg Id: 1						
4	Phase Desc: HSV						
5	10/2/2013 0:57	7	90.10	0.30	0.00	6	0
6	10/2/2013 0:57	13	89.90	0.30	0.00	6	0
7	10/2/2013 0:57	19	89.90	0.30	0.00	6	0
8	10/2/2013 0:57	25	90.10	0.30	0.00	6	0
9	10/2/2013 0:57	31	90.30	0.30	0.00	6	0
10	10/2/2013 0:57	37	90.60	0.30	0.00	6	0
11	10/2/2013 0:57	43	90.80	0.30	0.00	6	0
12	10/2/2013 0:57	49	91.10	0.30	0.00	6	0
13	10/2/2013 0:57	55	91.30	0.30	0.00	6	0
14	10/2/2013 0:58	61	91.60	0.30	0.00	6	0
15	10/2/2013 0:58	66	91.70	0.30	66.00	6	0
			Min is 89.9	Min is 0.3	Min is 0	Min is 6	Min is 0
16			Max is 91.7	Max is 0.3	Max is 66	Max is 6	Max is 0
17							

Figure 22 – Exporting Data to XLS Report

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• The pring to PDF first page of the trend report displays the full batch duration, trends for temperature, pressure, rotor speed, pv level and segment id versus date/time. The information is captured every 6 seconds during the execution of the batch. The report also groups the information by segments that provide a data trend during that segment.

Chart For Batch 0107330111102008





Trend for Segment Id: 9 Phase Description: Cooling 2



Recipes

The 'Recipe' menu provides the user with recipe management options. These options are:

- Global Alarms
- New
- New From Existing
- Edit
- Download Filter
- Download
- Delete Revision

These options are restricted to specific user groups as defined below:

- Administrator User can create, edit, delete and download recipes
- Recipe Administrator User can create, edit, delete and download recipes
- Recipe Download User can only download production recipes



Global Alarms

In this section, the user defines the global alarms that can be use on the recipes. The global alarms are defined by process mode by phase. This option allows the user to define the global or defaults alarms that recipes can apply to a recipe. Figure 30a shows the form use to configure the alarms.

Home	Reports 1	frend Re	ecipe	Configu	uration	Login	Logout							User:stocka
							Global	Alarms						
							Global	- Iai Iiis						
	Process Mod	le:	Steam	1		•			View Glob	al Alarms		Phase: S	T Vent	
	Alarms		(\uparrow)	Global			Global Ala	arm Tolerances						
	ST Vent		-	#	Parame	ter		Upper Tol.	Lower Tol.	Delay	Enabled	Min Value	Max Value	
	ST ComeUp			.	PV Tem	perature							300	
	ST Sterilizat	ion												
	ST Pressure	Cool												
	ST Atmosph	iere Cool												
	ST Drain													

Figure 30a. Global Alarms

The global alarm configuration is accessible selecting the desired process mode and then by pressing the View Global Alarms button. This action will populate the list of phases available for the process mode and a grid showing the possible parameters for the phase.

In order to configure the alarm setpoints, the user will click the Edit image on the desired row or double click the row. This action enables the row for editing. The user can then enter the values. After editing the information, the user can save the changes by pressing the enter key or by pressing the green check mark image, to cancel the edit, the user can press the escape key or click on the red X image.

The edit fields for the default alarms contain the following information:

Parameter	Description of the parameter being edited. This field is just for information and is not editable.
Upper Tol	Data entry field which enables the user to enter the alarm upper tolerance. For example, if the
	recipe setpoint.
Lower Tol	Data entry field which enables the user to enter the alarm lower tolerance. For example, if the user enters 2 the system will trigger an alarm when the process values go 2 units below the recipe setpoint.
Delay	Number of seconds the alarm condition must be active before triggering the alarm. For example, if the user enters 2 the process variables must be in alarm condition for at least 2 secs before triggering the alarms.
Enabled	If Enabled, the alarm is active. If it is not enabled the system will ignore the alarms.



Min Value	Minimum value allowed. This field is just for information and is not editable.
Max Value	Maximum value allowed. This field is just for information and is not editable.

The global alarms can be applied to a recipe revision during the recipe segment values. See Recipe Alarms section for more information.



New Recipe

To create a new recipe the user selects New from the the recipe menu which then will display a submenu to allow the user to select the process mode for the recipe. This will display a new page showing the section, the user defines the header of the recipe (See figure 30). This information is common for all the recipe revisions under the same product code.

Recipe	Alphanumeric field with a maximum field length of 25 characters. The application
•	requires the field to be unique; otherwise a message will be displayed to the user.
Revision	A number that is auto incremented by the application. It cannot be edited.
Process Mode	Display the process process mode of the recipe. (This option does not apply to all retorts.)
	The process modes include the following:
	Water Immersion
	Steam / Spray
	• Spray
	• Steam
Description	Description of the recipe revision. It is a required field with a maximum of 255 characters.
Comment	The comment field can be used by the user to enter comments for the recipe revision. It is
	a required field with a maximum of 255 characters.
Container Type	Describes the type of container. It is a required field with a maximum number of
	characters supported is 50.
Container Size	Describes the container size. It is a required field with a maximum number of characters
	supported is 50.
Container Qty	Number of containers inside the retort during the batch. Valid value range is from 0 –
	100,000.
Minimum IT	Minimum Initial Temperature allowed, any temperature below the minimum value will
	mark the cook as a deviated cook. It is a required field.
Process Table	User can select between the following options:
	 No – No process tables selected.
	Free Form: 5 X 5 Matrix of IT values and Retorts Temperatures fill with process
	times where the system will select the process time based on the IT value and the
	minimum table between Retort Temperature, Chart Temperature and TID
	Reference
Num of Inputs	Number of times the user will be prompted to enter the user inputs during the
	sterilization phase. The valid range is $1 - 3$. This will activate a program hold on the
	process until the user enters the information.
Input 1, Input 2 and Input 3	Value that indicates the percentage of time during the Hold segment that the user will be
	prompted for information. The interval value is based on a percentage of total segment
	time.
CUT Offset (F)	This offset will be added to the PV Temperature setpoint for the come up steps. For
	example if the recipe has a temperature setpoint of 251 F for a come up step and the CUT
Starilization Officit (5)	Offset value is 1 the system will control the temperature during come up at 252 F
Sterilization Uffset (F)	This onset will be added to the PV Temperature setpoint for the sterizilation step. For
	example in the recipe has a temperature setpoint of 251 F for sterilization step and the Sterilization Officet value is 2 the system will control the temperature during sterilization
	sterilization onset value is 2 the system will control the temperature during sterilization
	10 233 F

New Recipe Fields



Motion	When applicable. Select if the recipe will have rocking, rotation or static.
Energy Mode	Indicated if Energy Mode will be active for the recipe. It doesn't apply to all the retorts.
Save	Saves the new recipe. A message will be displayed indicating the status of the action and instructions for the next step. (See figure 34)
Update	Updates the recipe changes. A message will be displayed which indicates the status of the action with instructions for the next step.
Segments	Navigates to the segment page. If the 'Process Table' is selected this button will be disabled.
Process Table	Opens the process table to configure its value. This button is enabled if the process table is selected
On	System generated date which indicates when the recipe revision was created.
Ву	The login "username" of the individual that saved the recipe as a production recipe.

ecipe Header			
Recipe:*	StockLowTemp	Revision: 1	Process Mode: Steam
Description:*	Stock Low Temp Recipe		
Comments:*	Stock Low Temp Recipe		
Container Type:*	Cans	Container Size:* 10	Container Qty: 1234
Recipe Type:	Experimental		
nitial Temperature /	Process Table		-
nitial Temperature /	Process Table		-
nitial Temperature / Minimum IT:	70 Process Table Process Table Requi	ired: ONo Free OBall Form Othod	-
itial Temperature / Minimum IT:	Process Table Process Table Requi	ired: No Free Ball Form Method Inital Temperature is required is Yes is selected	-
Minimum IT: CUT Offset (F):	Process Table Process Table Requi	ired: No Free O Ball Form O Method Inital Temperature is required is Yes is selected	-
Minimum IT: CUT Offset (F): terilization Offset (F):	Process Table Process Table Requi	ired: O No O Free O Ball Form O Method Inital Temperature is required is Yes is selected	-
Minimum IT: CUT Offset (F): terilization Offset (F):	Process Table Process Table Requi	ired: No Free Ball Form Method Inital Temperature is required is Yes is selected	-
Minimum IT: CUT Offset (F): terilization Offset (F): ser Inputs	Process Table Process Table Requi	ired: O No O Free O Ball Form O Method Inital Temperature is required is Yes is selected	-
Minimum IT: CUT Offset (F): terilization Offset (F): ser Inputs Num of Inputs:	Process Table Process Table Requi	ired: O No O Free O Ball Form O Method Inital Temperature is required is Yes is selected	-
Minimum IT: CUT Offset (F): terilization Offset (F): ser Inputs Num of Inputs: Input 1 Time %:	Process Table 70 \$ 1 \$ 1.0 \$ 1 \$ 10 \$ Input 2 Time %: 0	ired: No Free Ball Method Inital Temperature is required is Yes is selected	-
Minimum IT: CUT Offset (F): terilization Offset (F): ser Inputs Num of Inputs: Input 1 Time %: Save	Process Table Process Table Requi T T T T T T T T T T T T T	ired: No Free Ball Method Inital Temperature is required is Yes is selected	





Process Table

A programming feature of the control system is the ability to designate multiple initial temperatures and multiple retort temperatures (see figure 32).

Free Form

The process table consists of an array of initial temperature (IT) and retort temperature (RT). Validated process times are entered into IT / RT cell. The PLC monitors the products IT entered by the user and the RT during the hold segment and selects the proper process time define in the process table.

Fields Descriptions:

Recipe	Displays the current recipe being edited or created
Revision	Displays the current recipe revision being edited or created
Recipe Type	Displays whether a recipe is Developmental or Experimental
I.T.	Initial Temperature, value range de 32 – 302
Retort Temperature	Retort Temperature value range 32 – 302
Times	Process Time in Minutes:Sec value range <0 – 999>:<0-59>
Go Back	Navigates back to the previous page.
Save	Saves the new process table. A message will be displayed which indicates the status of the action
	with instructions for the next step.
Segment	Navigates to the segment page





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Ball Method

The ball method alternate process calculates the process times for various Retorts and Initial temperatures. The retorts temperature, initial temperature and the heating factors are input by the user, see figure 32b.

The PLC monitors the products IT entered by the user and the RT during the hold segment and selects the proper process time define in the process table.

Fields Descriptions:

Recipe	Displays the current recipe being edited or created
Revision	Displays the current recipe revision being edited or created
Recipe Type	Displays whether a recipe is Developmental or Experimental
z-Value	Temperature difference required to achieve a decimal change of the DT value
Ref Temp	Reference Temperature
m+g	Retort Temperature during heating minus Retort Temperature during cooling cycle
F-Value	The time, at a constant temperature, Tref, required to destroy a given percentage of microorganisms
fh	Heating Rate Factor
jh	Heating Lag Factors
xbh	Condition at the time where the break, the change in the slope of the heating curve occurs
f2	Heating Factor
fc	Cooling Rate Factor
Come Up Credit Min	Come-Up Time Credit in the Ball Formula. The concept is as follows: If the Ball Formula cook time
	established by the process authority is determined to be X minutes, Ball allows 42% of the
	qualifying come up time to be subtracted from the cook time X
Process Correction %	Percentage of Time that will be add to the calculated process times
I.T. Range	Initial Temperature Range, value range de 0 – 302
Retort Temp Range	Retort Temperature value range 0 – 302
Calculate	Calculate the Process Times using the Ball Method Formula
Times	Process Time in Minutes:Sec value range <0 – 999>:<0-59>
Go Back	Navigates back to the previous page.
Save	Saves the new process table. A message will be displayed which indicates the status of the action
	with instructions for the next step.
Update	Updates the process table changes. A message will be displayed which indicates the status of the
	action with instructions for the next step.
Segment	Navigates to the segment page



Recipe: JulioTest Revision: 0 Recipe Type: Development										
z-Value:0 \bullet Ref Temp:0 $m+g:$ 0 \bullet F-Value:0fh:0jh:0xbh:0f2:0fc:0										
N	1in Retort Ter	mp: 0	Retor	t Temp Spt:	0	Min IT Te	mp: 0	Max	IT Temp: 0	
Pro	cs Correction	%: 0								
					Calculat	e				
				R	etort Tempe	rature:				
п	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
0.0	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
0.0	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
0.0	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
0.0	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
0.0	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
0.0	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
0.0	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
0.0	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
					0.00	0.00	0.00	0.00	0.00	0.00

Figure 32b – Recipe Process Table



Segments

The 'Segments' page provides the user with the ability to select the phases to build the list of segments for the recipe (see figure 37). The system supports a maximum of 16 segments in a recipe. Below you will find the descriptions of the phases by product mode.

Steam Water Spray Process Mode Phases

SS Fill

Description

The purpose of this step is to fill the bottom of the retort with water to be used for recirculation loop. After the desired level has been reached, the step is completed.

Device Matrix

Valve	Туре	Status	Notes
Steam Valve	Analog	Close	
Cold Water Valve	Analog	Close	
Air Valve	Analog	Close	
Vent Valve	Analog	Open	Open at 100%
Drain Valve	Analog	Close	
Circulation Pump	Digital	Off	
Pre-Heat Valve	Digital	Close	
Fill Valve	Digital	Open	Open until both the maximum water level switch (19.4 + 5) is made and level transmitter reaches a set value for 5 seconds.
Direct Circulation Valve	Digital	Open	
Hx Circulation Valve	Digital	Close	
Door Lock Open	Digital	Off	
Door Lock Close	Digital	On	



Phase Completion

The Fill step will complete when all the following conditions are met:

- Water Level Met
- Initial Temperature entered
- Segment Not in Hold

Recipe Parameters and Alarms

Parameter	Alarm Enabled
PV Level	
Hold	
PG #1	
PG #2	
PG #3	

SS PreHeat

Description

The PreHeat phase is use to heat the water on the bottom of the retort to a temperature that is above the initial temperature of the product so when the circulation pump starts on the come up phase we are not spraying cold water to the product.

Device Matrix

Valve	Туре	Status	Notes
Steam Valve	Analog	Close	
Cold Water Valve	Analog	Close	
Air Valve	Analog	Open	Open 5 %
Vent Valve	Analog	Active	We control pressure to 5 psi
Drain Valve	Analog	Close	
Circulation Pump	Digital	Off	
Pre-Heat Valve	Digital	Active	Open to control temperature to the recipe setpoint.
Fill Valve	Digital	Close	
Direct Circulation Valve	Digital	Open	



Valve	Туре	Status	Notes
Hx Circulation Valve	Digital	Close	
Door Lock Open	Digital	Off	
Door Lock Close	Digital	On	

Phase Completion

The preheat step will complete when the following conditions are met:

- Temperature Met
- Segment Time Met
- Segment not in hold.

Recipe Parameters and Alarms

Parameter	Alarm Enabled
PV Temperature	X
Segment Minutes	
Segment Seconds	
Segment Hold	
PG #1	
PG #2	
PG #3	



ST ComeUp

Description

The Come Up phase the temperature and pressure are controlled and ramped to Cook Temperature. The pump is turn on to start circulating the water and spraying the product.

Device Matrix

Valve	Туре	Status	Notes
Steam Valve	Analog	Active	Controlled to temperature setpoint using PID, if no setpoint it is closed.
Cold Water Valve	Analog	Close	
Air Valve	Analog	Active	Controlled to pressure setpoint using PID, if no setpoint it is closed.
Vent Valve	Analog	Active	Controlled to pressure setpoint using PID. Closes if adding air, open at 100% if no pressure setpoint.
Drain Valve	Analog	Close	
Circulation Pump	Digital	On	If minimum water level switch made.
Pre-Heat Valve	Digital	Close	
Fill Valve	Digital	Close	Open if minimum water level switch is not made and water below 212.
Direct Circulation Valve	Digital	Open	
Hx Circulation Valve	Digital	Close	
Door Lock Open	Digital	Off	
Door Lock Close	Digital	On	

Phase Completion

The come up step will complete when all the following conditions are met:

- Segment Temperature Met
- Segment Time Met
- Segment not in hold.

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Recipe Parameters and Alarms

Parameter	Alarm Enabled
PV Temperature	Х
PV Temp Ramp	
PV Pressure	Х
PV Press Ramp	
PV Level	Х
Flow	Х
Segment Minutes	
Segment Seconds	
Segment Hold	
PG #1	
PG #2	
PG #3	

Sterilization

Description

The Sterilization step involves sterilizing the product after it has reached the established Cook. To complete this phase, the time setpoint from the recipe must be met.

During this step, the operator is required to check and entry of the reference indicating device and the Chart temperature and the time and interval specified on the recipe.

Device Matrix

Valve	Туре	Status	Notes
Steam Valve	Analog	Active	Controlled to temperature setpoint using PID, if no setpoint it is closed.
Cold Water Valve	Analog	Close	
Air Valve	Analog	Active	Controlled to pressure setpoint using PID, if no setpoint it is closed.
Vent Valve	Analog	Active	Controlled to pressure setpoint using PID. Closes if adding air, open at 100% if no pressure setpoint.



Valve	Туре	Status	Notes
Drain Valve	Analog	Close	
Circulation Pump	Digital	On	If minimum water level switch made.
Pre-Heat Valve	Digital	Close	
Fill Valve	Digital	Close	Open if minimum water level switch is not made and water below 212.
Direct Circulation Valve	Digital	Open	
Hx Circulation Valve	Digital	Close	
Door Lock Open	Digital	Off	
Door Lock Close	Digital	On	

Phase Completion

The Sterilization step will complete when all the following conditions are met:

- Segment Time Met.
- Segment not in hold.

Recipe Parameters and Alarms

Parameter	Alarm Enabled
PV Temperature	Х
PV Pressure	Х
PV Press Ramp	
PV Level	Х
Flow	Х
Segment Minutes	
Segment Seconds	
Segment Hold	
PG #1	
PG #2	
PG #3	



Pressure Cooling

Description

The pressure cooling the system will try to maintain the pressure the system had during sterilization. The steam will collapse due to the cooling water and the system will use the compress air valve and vent valve to control the pressure. The cooling method will be spray cooling. Once the system gets into pressure cooling after been in sterilization it will wait 60 seconds for the pressure to stabilized before starting the cooling process. The system will continue to add water until the water level sensor if met it will start the circulation pump ramping up the speed and it will continue to add water until the we have enough water level to maintain a good flow of water; this level is mark by the maximum water level. The pump forces the water to circulate through the heat exchanger where we indirectly cool down the process water. The system allows to have multiple pressure cooling steps, but always the first pressure cooling step will be control at the pressure the system was running during the sterilization step. The system allows for pressure setpoint and ramps where the system will control the pressure based on the setpoints.

Device Matrix

Valve	Туре	Status	Notes
Heating Control Valve	Analog	Close	
Indirect Cooling Valve	Analog	Open	Open at 100% if no temperature setpoint, PID control if setpoint.
Air Pressure Valve	Analog	Open	Controlled to pressure setpoint using PID, closes if no setpoint.
Vent SWS Valve	Analog	Open	Controlled to pressure setpoint using PID. Closes if adding air, open at 100% if no pressure setpoint.
Drain Valve	Analog	Close	
Circulation Pump	Digital	On	If minimum water level sensor made.
Pre-Heat Valve	Digital	Close	
Water Fill Valve	Digital	Open	Open if minimum water level switch is not made.
Direct Circulation Valve	Digital	Close	
Hx Circulation Valve	Digital	Open	
Door Lock Open	Digital	Off	



Valve	Туре	Status	Notes
Door Lock Close	Digital	On	

Phase Completion

The Pressure Cooling step will complete when all the following conditions are met:

- Segment Temperature Met
- Segment Time Met
- Segment not in hold.

Recipe Parameters and Alarms

Parameter	Alarm Enabled
PV Temperature	х
PV Temp Ramp	
PV Pressure	x
PV Press Ramp	
PV Level	
Segment Minutes	
Segment Seconds	
Segment Hold	
PG #1	
PG #2	
PG #3	

Atmospheric Cooling

Description

The atmospheric cooling the system will open the Vent valve to release all the pressure from the vessel as it continues the cooling process.

Device Matrix

Valve	Туре	Status	Notes
Heating Control Valve	Analog	Close	



Valve	Туре	Status	Notes
Indirect Cooling Valve	Analog	Close	Open at 100% if no temperature setpoint, PID control if setpoint.
Air Pressure Valve	Analog	Close	Controlled to pressure setpoint using PID, closes if no setpoint.
Vent SWS Valve	Analog	Open	Controlled to pressure setpoint using PID. Closes if adding air, open at 100% if no pressure setpoint.
Drain Valve	Analog	Close	
Circulation Pump	Digital	On	If minimum water level sensor made.
Pre-Heat Valve	Digital	Close	
Water Fill Valve	Digital	Open	Open if minimum water level switch is not made.
Direct Circulation Valve	Digital	Close	
Hx Circulation Valve	Digital	Open	
Door Lock Open	Digital	Off	
Door Lock Close	Digital	On	

Phase Completion

The Pressure Cooling step will complete when all the following conditions are met:

- Segment Temperature Met
- Segment Time Met
- Segment not in hold.

Recipe Parameters and Alarms

Parameter	Alarm Enabled
PV Temperature	Х
PV Temp Ramp	
PV Level	



Parameter	Alarm Enabled
Segment Minutes	
Segment Seconds	
Segment Hold	
PG #1	
PG #2	
PG #3	

Drain

Description

The Drain phase the system will open the drain valve and use the circulation pump to empty the vessel and allow the process to complete. The drain valve will open if the water is below 125 Deg F

Device Matrix

Valve	Туре	Status	Notes
Heating Control Valve	Analog	Close	
Indirect Cooling Valve	Analog	Close	
Air Pressure Valve	Analog	Open	Controlled to pressure setpoint using PID. If no pressure setpoint it closes.
Vent SWS Valve	Analog	Open	Open at 100% if no pressure setpoint, PID control if setpoint.
Drain Valve	Analog	Open	Closed if water retained is selected.
Circulation Pump	Digital	Off	
Pre-Heat Valve	Digital	Close	
Water Fill Valve	Digital	Close	
Direct Circulation Valve	Digital	Open	
Hx Circulation Valve	Digital	Close	



Valve	Туре	Status	Notes
Door Lock Open	Digital	Off	
Door Lock Close	Digital	On	

Phase Completion

The Drain step will complete when all the following conditions are met:

- Water Level Met
- Temperature Door Safety below 130 F
- Zero Pressure Switch
- Level Safety Relay
- Segment not in hold.

Recipe Parameters and Alarms

Parameter	Alarm Enabled
System Pressure	
PV Level	
Segment Minutes	
Segment Seconds	
Segment Hold	
PG #1	
PG #2	
PG #3	



Segment Configuration Fields

Recipe	Displays the recipe name
Revision	Revision number of the recipe
Recipe Type	Displays the recipe type (Development or Experimental)
Available Phases	Lists available phases that the user can select. To add a phase as a segment, the user will
	select the desired phase, click on the button label and add or double click on the desired
	phase. This list varies based on the process mode of the recipe.
Insert	Button to add the selected phase to the segment configuration list. This action is the same
	action as double clicking on the desired phase. The insert is going to be above the selected
	phase on the Segment Configuration
Insert All	Button to add all the phases to the segment configuration list.
Remove	Button to remove the selected segment from the segment configuration list.
Clear All	Button to clear the segment configuration list.
Segment Configuration	List of phases making up the segments for the recipe. The order of the segment list will be the
	order in which the recipe will be executed. The application supports a maximum of 16
	segments per recipe.
Up	Button to change the sequence of the segments. Selecting a segment from the list and
	pressing this button will move up the position of the segment in the list.
Down	Button to change the sequence of the segments. Selecting a segment from the list and
	pressing this button will move down the position of the segment in the list.
Сору	Copy the selected segment from the segment configuration. This action duplicates the
	segment with all the parameters values.
Go Back	Returns to the previous page
Parameters	Opens the page for the parameter configuration



	Recipe Se	gments		
Recipe	: JulioTest Revision: 0	Recipe Type Sea	e: Development	
Phase	Insert	Seg Id	Phase	Up
HSV		1	HSV	
Come Up - Vent	Insert All	2	Come Up - Vent	Down
Come Up		3	Come Up	Сору
Sterilization	Kemove	4	Come Up	
Cooling 1	Remove All	5	Sterilization	
Cooling 2		6	Cooling 1	
Drain		7	Cooling 2	
		8	Cooling 2	
		9	Drain	
Go Back			Parameters	

Figure 37 – Segments

Recipe Segment Values

This page allows the user to configure the parameters of the segments and the alarms. The information is organized on a sidebar grouped by segments. The groups will expand and collapse based on the user selection of a phase. Figure 38 displays the segments group expanded with segment one selected. To configure the segment parameters the user should select the desired segment or phase of interest. The available parameters will then be displayed.

In order to edit the parameter values, the user will click the *desire* the row, this action will enable the row for editing. The user can edit multiple parameters (rows) at a time and submitting all the changes at once by pressing the save changes link. Figure 39a shows a parameter row in an edit mode and figure 39b shows the fields that have been change and not save yet with a green background. To cancel the changes, the user can press link that is label Cancel changes. The edit fields for the segment parameters contain the following information:

Parameter	Description of the parameter being edited. This field is just for information and is not editable.
Units	Units of measurement of the parameter. This field is just for information and is not editable.
Value	Data entry field which enables the user to enter the parameter value or setpoint.
Upper Tol	Data entry field which enables the user to enter the alarm upper tolerance. For example, if the user
	enters 2 the system will trigger an alarm when the process values go 2 units above the recipe setpoint.
Lower Tol	Data entry field which enables the user to enter the alarm lower tolerance. For example, if the user
	enters 2 the system will trigger an alarm when the process values go 2 units below the recipe setpoint.
Delay	Number of seconds the alarm condition must be active before triggering the alarm. For example, if
	the user enters 2 the process variables must be in alarm condition for at least 2 secs before triggering
	the alarms



Enabled	If Enabled, the alarm is active. If it is not enabled the system will ignore the alarms.
Min Value	Minimum value allowed. This field is just for information and is not editable.
Max Value	Maximum value allowed. This field is just for information and is not editable.

Recipe Segments										
Recipe: JulioTest Revision: 0 Seg 1 - HSV Recipe Type: Development										
Segments			Recip	e Segme	ent Valu	es				
Seg 1 - HSV	Parameter		Units	Value	Upper Tol.	Lower Tol.	Delay	Tol. Enabled	Min Value	Max Value
Seg 2 - Come Up - Vent	SV Temperature		F	241	6	6	20	~	0	302
Seg 3 - Come Up	SV Level		%	71	0	0	0		0	90
Seg 4 - Come Up	System Press		PSI	20	7	10	10	~	0	100
Seg 5 - Sterilization	Rotor Speed		RPM	0	0	0	0		0	30
Seg 6 - Cooling 1	Segment Hold			1	0	0	0		0	1
Seg 7 - Cooling 2	PG #1			0	0	0	0		0	1
Seg 8 - Cooling 2	PG #2			0	0	0	0		0	1
Seg 9 - Drain	PG #3			0	0	0	0		0	1
Save changes 😢 Cancel changes										
Go Back		Set Glo	bal Alarms					Next		

Figure 38 – Recipe Segment Values



Recipe Segments

Recipe: JulioTest Revision: 0 Seg 1 - HSV Recipe Type: Development											
Segments	(\uparrow)		Recipe Segment Values								
Seg 1 - HSV	0	Parameter		Units	Value	Upper Tol.	Lower Tol.	Delay	Tol. Enabled	Min Value	Max Value
Seg 2 - Come	Up - Vent	SV Temperature		F	240	6	6	20		0	302
Seg 3 - Come	Up	SV Level		%	70	0	0	0		0	90
Seg 4 - Come	Up	System Press		PSI	21	7	10	10	~	0	100
Seg 5 - Steriliz	zation	Rotor Speed		RPM	0	0	0	0		0	30
Seg 6 - Coolin	ng 1	Segment Hold			1	0	0	0		0	1
Seg 7 - Coolin	ng 2	PG #1			0	0	0	0		0	1
Seg 8 - Coolin	ig 2	PG #2			0	0	0	0		0	1
Seg 9 - Drain		PG #3			0	0	0	0		0	1
	Save changes 😢 Cancel changes						anges				
	Go Back		Set Global Alarms Next								

Figure 39a-Parameters entry form

Recipe Segments										
		Recipe: JulioTest Revision: 0	Seg 1 - HSV F	Recipe Typ	e: Develo	pment				
Segments	\bigcirc		Recip	e Segm	ent Valu	es				
Seg 1 - HSV	0	Parameter	Units	Value	Upper Tol.	Lower Tol.	Delay	Tol. Enabled	Min Value	Max Value
Seg 2 - Come Up - Ver	nt	SV Temperature	F	241	6	6	20	~	0	302
Seg 3 - Come Up		SV Level	%	71	0	0	0		0	90
Seg 4 - Come Up		System Press	PSI	21	8	9	10	~	0	100
Seg 5 - Sterilization		Rotor Speed	RPM	0	0	0	C		0	30
Seg 6 - Cooling 1		Segment Hold		1	0	0	0		0	1
Seg 7 - Cooling 2		PG #1		0	0	0	0		0	1
Seg 8 - Cooling 2		PG #2		0	0	0	0		0	1
Seg 9 - Drain		PG #3		0	0	0	0		0	1
Save changes 🕄 Cancel changes										
Go	Back	Set (lobal Alarms					Next		
		Figure 39b– Pa	arameters e	ntry for	m					



Available Parameters

The available parameter varies by process mode and by phase so not all of them may be applicable to your application.

			Max	Min
Parameter	Description	Units	Value	Value
Flow	Flow alarm set point value.	GPM	1450	0
PG #1	Programmable contact #1 provides additional	NA	1	0
	capabilities to the system by turning an output on at			
	the end of the segment. If set to a value of "1" the			
	output will be on during the segment.			
PG #2	Programmable contact #2 provides additional	NA	1	0
	capabilities to the system by turning an output on at			
	the end of the segment. If set to a value of "1" the			
	output will be on during the segment.			
PG #3	Programmable contact #3 provides additional	NA	1	0
	capabilities to the system by turning an output on at			
	the end of the segment. If set to a value of "1" the			
	output will be on during the segment.			
PV Level	Process Vessel Water Level alarm setpoint valve	%	100	0
PV Press Ramp	Process Vessel pressure ramp. The ramp is defined by	Psig	100	0
	the number of PSI per minute that the set point will	_		
	increase until it reaches the set point.			
PV Press	Process Vessel pressure set point.	Psig	100	0
		_		
PV Temp Ramp	Process Vessel temperature ramp. The ramp is defined	Deg F/min	302	0
	by the number of degrees per minute that the set point	-0 /		
	will increase until it reaches the set point.			
PV Temperature	Process Vessel temperature set point.	DegF	302	0
		U		
Segment Hold	With a value of "1" the segment will be held at the end	NA	1	0
	of the segment until the user removes the hold.			
Segment Minutes	Duration of the segment in minutes.	Minutes	499	0
Segment Seconds	Duration of the segment set point (in seconds).	Seconds	59	0



Recipe Alarms

The recipe alarms are configured by steps.

Alarm Type

•

We can classify the alarms by two types which are:

- Process Alarms
 - Alarms which are configured and enabled by the recipe. The recipe contains the definition of the process setpoints, upper tolerance, lower tolerance, delays and enabled which are the parameters that the controller uses to evaluate and trigger the alarms. The triggers generate alarm events which are Hi Alarm, Low Alarm, Out of Alarm and Acknowledge.

The alarm conditions can be break down by different zones. The diagram 1 below shows the different alarm zones and normal process zone it will be used to explain how the alarm events are trigger. But before we continue lets define the **Hi Alarm Limit** and **Low Alarm Limit**.

- Hi Alarm Limit = Recipe Setpoint + Upper Alarm Tolerance
- Low Alarm Limit = Recipe Setpoint Lower Alarm Tolerance



Diagram 1 - Alarm Zones

The In Alarm and Out of Alarm events are triggered by the PLC, and are monitored and logged by the HMI. The alarm acknowledgement event is triggered by the operator when he or she acknowledge the alarm from the HMI.

• In Alarm - The In Alarm Event is trigger when the process value crosses the Hi Alarm Limit or the Lo Alarm Limit and it stays in that zone for a duration equal or longer or equal than the delay time configured on the recipe. Below we will provide an example for the Hi Alarm Event but the event for the Lo Alarm Event will have similar behavior, with the exception that for the Lo Alarm the setpoint has to be met at least once or the time in step elapsed.



If the process values cross the **Hi Alarm Limit** but it doesn't stay in that zone for the duration of the delay the alarm will not be trigger.



Diagram 2 - Process not in alarm

See diagram 2 it shows a condition where the Hi Alarm event was not trigger because proces value was not above the Hi Alarm Limit for duration of the alarm delay. The system considers the process value out of alarm immediately when the process values goes below the Hi Alarm Limit into the Normal Zone.

See diagram 3 the shows the condition where the **In Alarm** event will be trigger because the process value remain above the **Hi Alarm Limit** for a time greater or equal to the alarm delay.





• Out of Alarm - The Out Alarm Event is trigger when the process value returns to the Normal Zone by crossing above the Lo Alarm Limit for the Lo Alarm or crosses below the Hi Alarm Limit for the Hi Alarm. There is not a delay for this event when the process values return to it normal zone after being in a In Alarm condition it is consider out or alarm.

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Below diagram 4 shows an example for the Out of Alarm Event after Hi In Alarm condition, which happens when the process values goes below the Hi Alarm Limit.



Diagram 4 - Process Out of Alarm

Once the process values goes out of alarm if the process value goes back into an alarm zone it will have to stay in the alarm zone for the

Once the process values goes out of alarm if the process value goes back into an alarm zone it will have to stay in the alarm zone for the duration of the Alarm Delay before the the In Alarm event if trigger again.

See Diagram 5.



Diagram 5

Diagram 5 shows the process out of alarm it will stay out of alarm even when it crosses the alarm limit because it did not stay in the **Hi AlarmZone** for the duration of the alarm delay.

• Acknowledge - Event that occurs when the user acknowledges the alarm from the HMI.

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Discrete Alarms

Discrete Alarms are conditions that monitor equipment failures, on/off sensors or contacts and user actions. They are not driven by recipe or process values just by the status of an input, contacts or user action or entry

Global Alarms

The global alarms can be applied to a recipe revision by pressing the set global alarms button which will copy the global alarms parameters to the recipe. Global alarms are like templates for that alarms.

Configure Recipe Type

This screen gives the user the opportunity to change the recipe type to "Experimental" or "Production" (see figure 41). This option can be accessed at any time during the life cycle of the experimental recipe.

Types of Recipes:

Development	This is the initial recipe type and is created when a new recipe is started. The recipe type will remain as "Development" unless and/or until the user saves the recipe as "Experimental" or "Production". This recipe type is not available to any user for download since it is at a stage in the development process that has not been saved.
Experimental	This type of recipe can be edited and downloaded to the PLC only by the "Administrator" or "Recipe Administrator". The "Operator" user group cannot download "Experimental" recipes. The experimental type can be edited at any time without changing its revision number if the user selects the edit function from the recipe menu.
Production	This type of recipe is to be used during production. This type of recipe cannot be edited but can be downloaded to the "Recipe Download" user group for the purpose of production.

	Configure Recipe Type
Recipe Recipe Type:	e: JulioTest Revision: 0 Recipe Type: Development
	Go Back Save



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Сору

This option allows the user to *use an existing recipe as a template to create a new recipe*. When this option is selected, a list of recipes, grouped by process mode, recipe type, and recipe (see figure 42), will be displayed. The user selects the recipe to be used as the template and then selects the button label Copy Selected recipe which will display the new recipe for to enter the new name

	Copy Recipes									
	Select the Recipe to use as a template and click the button label Copy Recipe									
D										
		3 11000 - 1			1					
	#	Recipe	*	Contnr Size	Revision 🔺	Description	Recipe Type 🔺 📍			
9	Pro	cess Mode: Wa	ter Immers	ion (Continued o	n the next pag	e)				
		Baseline Recip	e	15.5oz	1	Initial TD Test	Experimental			
		Baseline Recip	e	15.5oz	1	Initial ID Test	Production			
		Baseline Recip	e	15.5oz	2	Baseline Recipe 2. Changes to Initial TD	Experimental			
		Baseline Recip	e	15.5oz	2	Baseline Recipe 2. Changes to Initial TD	Production			
		Baseline Recip	e	15.5oz	3	Baseline Recipe 3. Official TD Recipe for 254F Process. Changes to Initial TD	Experimental			
	Baseline Recipe			15.5oz	3	Baseline Recipe 3. Changes to Initial TD	Production			
		Baseline Recipe Baseline Recipe Baseline Recipe Baseline Recipe		15.5oz	4	Baseline Recipe 4 for Queso Blanco. Official TD Recipe for 250F Process. Changes to Initial TD	Experimental			
				15.5oz	4	Baseline Recipe 4 for Queso Blanco. Changes to Initial TD	Production			
				15.5oz	5	Baseline Recipe 5 for Queso Blanco. Changed CUV to 3 min and CU2 to 2min to allow time for vessel to fill.	Experimental			
				15.5oz	5	Baseline Recipe 7. Low RPM for TD Based on Recipe #3 Queso	Production			
	Baseline Recipe		15.5oz	6	Baseline Recipe 6. Control PV Temp at 253F during sterilization. Overshoot temp on CU1&2 is changed to 255F	Experimental				
		Baseline Recipe		15.5oz	7	Baseline Recipe 7. Low RPM for TD Based on Recipe #3 Queso	Experimental			
		Baseline Recip	e	15.5oz	8	Baseline Recipe 3. Changes to Initial TD	Experimental			
		Baseline Recip	e	15.5oz	9	Baseline Recipe 7. Low RPM for TD Based on Recipe #3 Queso and lower SV level during HSV and MicroCooling Steps (75%).	Experimental			
	Page 1 of 6 (83 items) (1 2 3 4 5 6 ()									
	Copy Selected Recipe									





Edit Recipe

This option allows the recipe administrator and the administrator users to *edit an Experimental or Development and revised a Production recipe*. When this option is selected a submenu is display to allow the user to select the type of recipe then a list of recipe is presented to the user so he can select the desired recipe to edit (see figure 44). The user selects the recipe that requires editing. After clicking on the recipe, the user presses the "Edit Recipe" button and is taken to recipe general information page.

Edit Recipes										
	Select the Recipe to edit and click the button label Edit Recipe									
P	Process Mode 🔺 🌳									
	#	Recipe 🔺	Contnr Size	Revision 🔺	Description	Recipe Type 🔺 💡				
۷	Pro	cess Mode: Water Immers	ion							
	Baseline Recipe		15.5oz	0	Baseline Recipe 3. Changes to Initial TD	Development				
		Baseline Recipe	15.5oz	0	Baseline Recipe 3. Changes to Initial TD	Development				
		Baseline Recipe	15.5oz	0	Baseline Recipe 2. Changes to Initial TD	Development				
		Baseline Recipe	15.5oz	0	Baseline Recipe 3. Changes to Initial TD	Development				
		Baseline Recipe	15.5oz	0	Baseline Recipe 3. Changes to Initial TD	Development				
		Baseline Recipe	15.5oz	0	Baseline Recipe 3. Changes to Initial TD	Development				
		JulioTest	15.5oz	0	JulioTest Run Hi Temp	Development				
		OP 77	15.5oz	0	Tostitos 15 oz. Queso Blanco	Development				
	OP 77		15.5oz	0	Tostitos 15 oz. Queso Blanco	Development				
		OP 81	24 oz.	0	Tostitos 23 oz. Queso	Development				
		TestVal1	15.5oz	0	Test Validation 1 Tostitos 15 oz. Queso Blanco	Development				
		TestValid	wqewq	0	TestValid	Development				
	Edit Selected Recipe									

Figure 44 – Edit Recipe

Filter

This page enables the user with the ability to configure the recipes that will be available for download (see figure 45). There are two ways of filtering the recipes which are:

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Recipe Revision	Checking this option will filter the list of available recipe revision, showing the active recipes with the					
Filter	highest revision.					
De-activate	Deactivating a recipe for download hides it from the list of available recipes for download. To activate a					
	recipe, the user has to uncheck the 'deactivate' box.					

Checking this option will filter the list of available recipe revision, showing the active recipes with the highest revision.										
Recipe Revision Filter 🔽										
Save Filter										
				Ch	eck the Re	ecipe Revision to Filter				
Pr	oces	s Mode	*							
	#	Filter	Recipe	Contnr Size	Revision	Description	Recipe Type 🛛 💡			
R	Pro	cess Mo	de: Water Immersion	(Continued on th	e next page)	·				
			Baseline Recipe	15.5oz	1	Initial TD Test	Experimental			
			Baseline Recipe	15.5oz	2	Baseline Recipe 2. Changes to Initial TD	Experimental			
			Baseline Recipe	15.5oz	3	Baseline Recipe 3. Official TD Recipe for 254F Process. Changes to Initial TD	Experimental			
			Baseline Recipe	15.5oz	4	Baseline Recipe 4 for Queso Blanco. Official TD Recipe for 250F Process. Changes to Initial TD	Experimental			
			Baseline Recipe	15.5oz	5	Baseline Recipe 5 for Queso Blanco. Changed CUV to 3 min and CU2 to 2min to allow time for vessel to fill.	Experimental			
			Baseline Recipe	15.5oz	6	Baseline Recipe 6. Control PV Temp at 253F during sterilization. Overshoot temp on CU1&2 is changed to 255F	Experimental			
			Baseline Recipe	15.5oz	7	Baseline Recipe 7. Low RPM for TD Based on Recipe #3 Queso	Experimental			
			Baseline Recipe	15.5oz	8	Baseline Recipe 3. Changes to Initial TD	Experimental			
			Baseline Recipe	15.5oz	9	Baseline Recipe 7. Low RPM for TD Based on Recipe #3 Queso and lower SV level during HSV and MicroCooling Steps (75%).	Experimental			





Download Recipe

The download recipe option gives the user the ability to *select a production recipe and download it to the retort*. Only users with the roles of Administrator, Recipe Administrator, and Operator can access this page. The production recipes listed are the last production revisions of the recipes.

The user selects the desired recipe to download and then clicks the 'Download Recipe' button (see figure 46). A list of available retorts of the recipe process mode is then displayed. The user then chooses the retort(s) for the recipe download (see figure 47). If a retort is running or if there is an error reading the status of the retort, it will be disabled from selection (see figure 47 which shows retort 1 as the only retort available for download). When the user selects to download a recipe a confirmation box will be displayed confirming whether user would like to download the recipe. If the user chooses "no", the download will be cancelled. If the user chooses "yes", a loading animation is presented to indicate that the download process is taking place.

If the sequence of downloading a recipe is completed with no errors, a message is displayed informing the user that the recipe was downloaded successfully. If there is an error in the sequence, the user is informed of the error. If the download results in an error, the user can attempt to download the recipe again. The events of downloading a recipe are logged and a report can be requested. See the "Reports" section for more information on the download recipe status.

	Recipe List										
_	Select the Berine to Download										
				501							
P	Process Mode										
	#	Recipe	Contnr Size	Revision	Description	Prod Type 💡					
۷	Proc	ess Mode: Water Immersi	ion (Continued on	the next pa	ige)						
	Baseline Recipe		15.5oz	22	Baseline Recipe #3 for 16oz with revisions made for 24oz Queso TD testing. SV Level decreased to 75% from 85%, Sterilization time increased to 29 minutes from 26 minutes & Cooling 2 time increased to 10 minutes from 8 minutes to match OP63.	Experimental					
		ChemicalFeedwVent	Non	1	Recipe for the Chemical Feed in preparation for passivation with Come Up Vent so the PV will be fill from the SV Water	Experimental					
	CookMats		mats	1	This Recipe is to cook the mats 250 Deg 120 min $\textcircled{0}$ 5 RPM with 20 psi of pressure	Experimental					
	dft TD-Study		ANY	1	Fritos Chili Cheese	Experimental					
	DFTtest		ANY	1	DFT Test Recipe	Experimental					
	Drain Retort		NA	1	Drain Retort	Experimental					
	EmptySV		ANY	1	Empty SV Drain all water	Experimental					
		HP recipe 1	15.5oz	4	Based on HP recipe 1 Rev2. For Queso Blanco. CU temp 251. Sterilization temp 250. RPM remains at 18rpm. Updated process table. Updated Sterilization length to 36min 26sec	Experimental					
		interogator	ANY	1	Alarm interrogation recipe	Experimental					
	Page 1 of 4 (38 items) (1 2 3 4 ()										
	Download Recipe										

Figure 46 – Recipe Download


		Please select retort to download recipe
Recipe: 0	lft TD-Study	Revision: 1
Description: F	ritos Chili Cheese	
Retorts:	🔲 Retort 1 🔲 Retort 6	
	Retort 2 Retort 7	
	Retort 3 Retort 8	
	Retort 5	
		Download Recipe

Figure 47 – Retort list for recipe download

Delete Recipe

This option allows the user to *delete recipes of type 'Development' and 'Experimental*". The user is presented with the list of recipes available for deletion (See figure 48).

Deleting a recipe will delete any information that was stored about this recipe.



				D	elete Recipes	
		Sel	ect the Recipe	to delete a	and click the button label Delete Recipe	
P	roces	s Mode 🔺 🌳				
	#	Recipe 🔺	Contnr Size	Revision 🔺	Description	Recipe Type 🔺 📍
۷	Pro	cess Mode: Water Immers	ion (Continued o	n the next pag	e)	
		Baseline Recipe	15.5oz	0	Baseline Recipe 2. Changes to Initial TD	Development
		Baseline Recipe	15.5oz	0	Baseline Recipe 3. Changes to Initial TD	Development
		Baseline Recipe	15.5oz	0	Baseline Recipe 3. Changes to Initial TD	Development
		Baseline Recipe	15.5oz	0	Baseline Recipe 3. Changes to Initial TD	Development
		Baseline Recipe	15.5oz	0	Baseline Recipe 3. Changes to Initial TD	Development
		Baseline Recipe	15.5oz	0	Baseline Recipe 3. Changes to Initial TD	Development
		Baseline Recipe	15.5oz	1	Initial TD Test	Experimental
		Baseline Recipe	15.5oz	2	Baseline Recipe 2. Changes to Initial TD	Experimental
		Baseline Recipe	15.5oz	3	Baseline Recipe 3. Official TD Recipe for 254F Process. Changes to Initial TD	Experimental
		Baseline Recipe	15.5oz	4	Baseline Recipe 4 for Queso Blanco. Official TD Recipe for 250F Process. Changes to Initial TD	Experimental
		Baseline Recipe	15.5oz	5	Baseline Recipe 5 for Queso Blanco. Changed CUV to 3 min and CU2 to 2min to allow time for vessel to fill.	Experimental
		Baseline Recipe	15.5oz	6	Baseline Recipe 6. Control PV Temp at 253F during sterilization. Overshoot temp on CU1&2 is changed to 255F	Experimental
		Baseline Recipe	15.5oz	7	Baseline Recipe 7. Low RPM for TD Based on Recipe #3 Queso	Experimental
		Baseline Recipe	15.5oz	8	Baseline Recipe 3. Changes to Initial TD	Experimental
	Page	1 of 5 (65 items)	1 2	3 4	5 🕞	
					Delete Recipe	

Figure 48 – Delete Recipe

Configuration

User Administration

The IconSMS application authenticate against a Windows Active Directory Domain Services (WADDS) so all the users are managed from the IconsmsADDS server. This page allows users with "Administrator" and "User Administrator" rights to copy the users configured on the WADDS.



The following fields are display (see figure 51):

Username	Application username. Maximum number of characters is 50.
Password	Maximum number of characters is 10. Minumum 5
First name	Maximum number of characters is 50.
Last name	Maximum number of characters is 50.
Roles	 This field lists available user roles. Administrator / Domain Admins: User with all the application rights. User can create or edit users, configure printers, create new recipes, edit recipes, download experimental and production recipes, run retort, manual screen, pid tuning and acknowledge alarms. Maintenance - User can run retort, acknowledge alarms, and access manual screens. Operators - User can run retort and acknowledge alarms. Recipe Administrator: User can create new recipes, edit recipes, download experimental and production recipes, run retort and acknowledge alarms. Recipe Download: User can create new recipes, run retorts and acknowledge alarms. Recipe Reviewer: User group to review process records. User (Guest) - User can generate reports, view retort screens and view alarms. User Administrator: User can create or edit users, configure printers, run retort and acknowledge alarms.

If new users are greated or group membership changes the user administrator should login to the IconSMS application and update the users in the IconSMS application to make sure it contains the update information which is important for the application.



User Administration,	ser are created using the windows domain controller interface make sure to press the updat button to copy the users information to the IconSMS application	e users
User List	User Details	
Î	User Name:	
	First name: Last Name:	
Stock America	Email Address: Login Disabled:	
Julio Delgado	Assigned Roles:	
Retort Room		
Retort Operator		
test		
a agui		
a arms		
a delgado		
a nix		
b boman		
b dame		
b watkins 🗸	Update Users	

Figure 51 – User Administration

Retort Printers

The retort printers section of the application enables administrators of the application the ability to configure the printers to utilize the auto print application to print batch reports for the reports. The configuration is by retort so each retort can have a different printer (see figure 52).

To configure a printer for a retort, click the edit image of the row or double click the row for the desired retort and a pull down list of the printers configured on the IconSMS host will be displayed.

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	Confi	igure Retort Printers	
#	Retort	Printer	
	Retort 1	NPIE86F6F (HP LaserJet 600 M601)	
	Retort 2	NPIE86F6F (HP LaserJet 600 M601)	
	Retort 3	NPIE86F6F (HP LaserJet 600 M601)	
	Retort 4	NPIE86F6F (HP LaserJet 600 M601)	
	Retort 5	NPIE86F6F (HP LaserJet 600 M601)	
	Retort 6	NPIE86F6F (HP LaserJet 600 M601)	
	Retort 7	NPIE86F6F (HP LaserJet 600 M601)	
	Retort 8	NPIE86F6F (HP LaserJet 600 M601)	

Figure 52-Retort Printers

Login

In order to login to the application, the user must enter his/her username and password. The user is also given the opportunity to change his/her password (see figure 53).

Please log	jin with your user name and password
U	ser doesn't have permission
User Name:*	
Password:*	
	Login
	Change Password

Figure 53 – Login

Logout

When the user selects this option he/she will be logged out of the application and the login page will be displayed.

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Change Password

The user password can be changed from a computer that is part of the windows active directory. It cannot be change from the IconSMS application.

Record Review

The record review page can be accessed from the menu, but only administrators and Record Reviewers user will have access to the page. The user can request the information using the following filters:

- Start Time
- End Time
- Recipe
- Retort Multiple selection allowed
- Review Status All, Not Reviewed, Reviewed, Hold, Released
- Batch Status All, Aborted, Completed, Deviation

After the user request the cooks, a grid like the one shown in the image below, the grid can be exported to PDF file or excel by pressing the button label Export to PDF or Export to XLS. The grid will display the following columns:

- Edit Enabled the editing of the record so user can select the review status and add notes.
- Batch # User input at the start of cook.
- Status Display the status of the batch
 - In Progress Batch Started but not completed.
 - Aborted Batch was aborted by the user. Text will be display red to indicated it was an aborted cook
 - Completed Batch process completed
 - Deviation There was a process deviation during the batch. The row text color will be displayed red.
 - Rotomat Batch Id Automated batch id number generated by the IconRMS application to identify a batch. The field is also a hyperlink which will launch the full batch report of the cook on a new web page. (Please verify that your web browser is configured to allowed popups for the site). The user will be able to view the full batch report and review the record on the same page. (See image below)The rotomat batch id number is a 16 character number with the following format RRHHMMSSMMDDYYYY where
 - RR Retort number Ex. for retort 1 it will be 01
 - HH The hour number of the start of the cook.
 - MM -Minutes of the start of the cook
 - SS Second of the start of the cook
 - MM Month number of the start of the cook
 - DD Day number of the start of the cook
 - YYYY Year of the start of the cook.
 - R# Retort number.
 - IT (F) Initial Temperature value
 - Start Time The start time of the Come up Vent Phase.
 - Total Cut Total time for the Come Vents phases and Come Up phases.
 - Cook Time Total Sterilization Time



- PV Temp (F) Retort Tempartature
- R. Temp (F) User input temperature of the Reference temperature device.
- Chart User input of the Chart Temperature
- Press (psi) Pressure reading of the system at the time of the user inputs.
- PV Lvl (%) Process Vessel water level at the time of the user inputs.
- RPM Rotor Speed at the time of the user inputs.
- Reviewed Show the lastest batch review status. The status will also be represented with the following text color:
 - Reviewed Green
 - Not Review Blue
 - Hold Red
- o Review By User name of the lastest Record Reviewer
- o Review Data Date/Time of the latest record review

			Start Tim	e: 09/29/2017 00:0	0:00		▼ End Tir	me: 09/	30/2017 0	00:00:00		-	Re	cipe:	All		•		
			Retort:	All		^	Review Star	tus: All				- B	atch St	atus:	All		*		
				Retort 1		1													
				Retort 2															
				Retort 3															
				Retort 4															
				Retort 5		•													
								Re	quest Co	oks									
				Expert To F	DE		1 1	E.,	nert Te V	10			Г	C		atch Papart			
				Export to P	DF			EX	port to x	LJ				Sum	nary b	atch Keport			
	Ealit	Batch																	
	COIL	#	Status	View Batch Record	R#	IT (F)	Start Time	Total CUT	Cook Time	PV Temp (F)	TID Temp (F)	Chart	Press (psi)	PV Lvl (%)	RPM	Reviewed 💡	Review By	ReviewDate	
	Eult	# 9	Status	View Batch Record	R#	IT (F)	Start Time	Total CUT	Cook Time	PV Temp (F)	TID Temp (F)	Chart	Press (psi)	PV Lvl (%)	RPM	Reviewed 9	Review By	ReviewDate	
)	Edit	# 9	Status Completed	View Batch Record 9 0301500409292017	R#	IT (F) 124	Start Time 09/29/2017 01:51:09	Total CUT 00:13:08	Cook Time 00:32:15	PV Temp (F) 254.2	TID Temp (F) 255.4	Chart 254	Press (psi) 32.2	PV Lvl (%) 75.3	RPM 19.2	Reviewed 9	Review By	ReviewDate	
 → 	Edit Edit	# Ŷ	Status Completed Completed	View Batch Record	R#	IT (F) 124 132	Start Time 09/29/2017 01:51:09 09/29/2017 02:04:19	Total CUT 00:13:08 00:13:48	Cook Time 00:32:15 00:31:35	PV Temp (F) 254.2 254.1	TID Temp (F) 255.4 255.3	Chart 254 254	Press (psi) 32.2 32.7	PV Lvl (%) 75.3 75.1	RPM 19.2 19.3	Reviewed 🕈 Not Reviewed	Review By	ReviewDate	
))	Edit Edit Edit	# 9	Status Completed Completed Completed	View Batch Record	R#	IT (F) 124 132 150	Start Time 09/29/2017 01:51:09 09/29/2017 02:04:19 09/29/2017 02:14:04	Total CUT 00:13:08 00:13:48 00:13:23	Cook Time 00:32:15 00:31:35 00:30:00	PV Temp (F) 254.2 254.2 254.2	TID Temp (F) 255.4 255.3 255.5	Chart 254 254 254	Press (psi) 32.2 32.7 32.5	PV Lvl (%) 75.3 75.1 74.5	RPM 19.2 19.3 19.3	Reviewed 9 Not Reviewed Not Reviewed	Review By	ReviewDate	
Э Э Э	Edit Edit Edit Edit Edit	# ?	Status Completed Completed Completed	View Batch Record	R#	IT (F) 124 132 150 148	Start Time 09/29/2017 01:51:09 09/29/2017 02:04:19 09/29/2017 02:14:04 09/29/2017 02:23:59	Total CUT 00:13:08 00:13:48 00:13:23 00:13:23	Cook Time 00:32:15 00:31:35 00:30:00 00:30:45	PV Temp (F) 254.2 254.2 254.2 254.2 254.2	TID Temp (F) 255.4 255.3 255.5 255.4	Chart 254 254 254 254	Press (psi) 32.2 32.7 32.5 32.8	PV Lvl (%) 75.3 75.1 74.5 74.4	RPM 19.2 19.3 19.3 19.3	Reviewed $\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Review By	ReviewDate	
 Э Э Э Э Э 	Edit Edit Edit Edit Edit	# ?	Status Completed Completed Completed Completed	View Batch Record 0301500409292017 0502030509292017 0502130809292017 0702230009292017	R#	IT (F) 124 132 150 148 152	Start Time 09/29/2017 01:51:09 09/29/2017 02:04:49 09/29/2017 02:24:50 09/29/2017 02:23:431	Total CUT 00:13:08 00:13:48 00:13:23 00:13:23	Cook Time 00:32:15 00:31:35 00:30:00 00:30:45	PV Temp (F) 254.2 254.2 254.2 254.2 254.2	TID Temp (F) 255.4 255.3 255.5 255.4 255.3	Chart 254 254 254 254 254	Press (psi) 32.2 32.7 32.5 32.8 32.9	PV Lvl (%) 75.3 75.1 74.5 74.4 74.2	RPM 19.2 19.3 19.3 19.3 19.3	Reviewed P Not Reviewed Not Reviewed Not Reviewed Not Reviewed	Review By	ReviewDate	

To review a cook record the user has two options press the link label edit which will display the options to review a record or by pressing the batch id link which will display the full batch reports and they user will also have the options to review the record. The user will have to enter its login password to save the record review information.



		Summar	ry Batch Record Rev	viev	/													
		Start Tim	ne: 09/29/2017 00:0	0:00)	✓ End Tir	me: 09/	30/2017 0	0:00:00		•	Re	cipe:	All		*]	
		Retort:	All		-	Review Stat	tus: All				₹ B	atch St	atus:	All		-]	
			Retort 1															
			Retort 2															
			Retort 3															
			Retort 4		_													
			Retort 5		•													
							Re	quest Coo	oks									
			r							_								
			Export To F	PDF			Ex	port To X	LS				Sumr	mary Ba	atch Report			
Edit	Batch #	Status	View Batch Record	R#	IT (F)	Start Time	Total CUT	Cook Time	PV Temp (F)	TID Temp (F)	Chart	Press (psi)	PV Lvl (%)	RPM	Reviewed 9	Review By	^v ReviewDate	
	9		9													-	9	
		Completed	0301500409292017	3	124	09/29/2017 01:51:09	00:13:08	00:32:15	254.2	255.4	254	32.2	75.3	19.2	Not Reviewed			
	Deviewe	di Not Paulo	und					- D		L*								
ſ	Keviewe	a: Not Revie	wed					Pi	assword									
1	Note:																	
																	Update Cancel	
<u>Edit</u>		Completed	0502030509292017	5	132	09/29/2017 02:04:19	00:13:48	00:31:35	254.1	255.3	254	32.7	75.1	19.3	Not Reviewed			
<u>Edit</u>		Completed	0602130809292017	6	150	09/29/2017 02:14:04	00:13:23	00:30:00	254.2	255.5	254	32.5	74.5	19.3	Not Reviewed			



Print Batch Report

ICON SMS	Batch Report		DFA Schu	lenburg	l	Cook #:	
Retort:	3	Batch:	030150040929201	7		Coo	ok ld:
Recipe:	OP 78	Description:	Tostitos Smooth &	Cheesy			Rev: 6 - Production
Start Time:	09/29/2017 01:50:04	End Time:	09/29/2017 02:50:4	48		Dura	ntion: 01:00:44
Container:	Glass - 15.5oz	Cont Qty:	3780				
Seg #: 1	HSV - 1	SV Temp °F	Sys Pres psi	Rotor rpm	PV Level %	Flow gpm	
Seg Begin	09/29/2017 01:50:04 09/29/2017 01:51:09	270.1 Initial Tem	28.70 perature Entry:	0.0 124.0 °F	8.0	0	dslig
Seg End Time In Seg:	09/29/2017 01:51:09 00:01:05	270.1	38.10	0.0	8.0	0	
Seg #: 2	Come Up - Vent - 1	PV Temp °F	Sys Pres psi	Rotor rpm	PV Level %	Flow gpm	
Seg Begin Seg End Time In Seg:	09/29/2017 01:51:09 09/29/2017 01:53:57 00:02:48	81.1 211.8	0.00 8 8.20	0.0 91.0	8.0 828.0	0 46	
Seg #: 3	Come Up - 1	PV Temp °F	Sys Pres psi	Rotor rpm	PV Level %	Flow gpm	

Password:
Save Record Review