



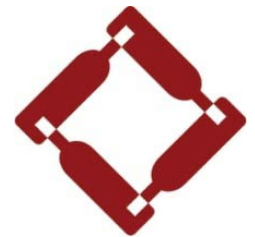
WITS

WINE INDUSTRY
TECHNOLOGY
SYMPOSIUM

Blend Management TankNET® Tank Controlling System

Lisa Russell

Korbel Champagne Cellars



WITS

July 16-17, 2009 Napa Valley Marriott

TankNET Features

- Intuitive Web-Browser Interface
- Anytime/Anywhere Access & Control
- Fermentation Tracking by Lot Code
- Tasting & Cellar Notes by Lot Code
- Real-Time & Historical Fermentation Graphs
- Dynamically Updated Cellar Maps
- Alarm Notifications via Cell Phone/E-mail
- Integration with Wine Production Software Systems



TankNET by Acrolon Technologies, Inc - Windows Internet Explorer provided by F...

http://10.10.1.78/tank_groups.aspx

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TankNET by Acr... x New Tab

www.Acrolon.com Help Topics

501-523 TANK BOARD SET No Filter

Edit	ID	Lot Code	Lot Status	DeviceMode	Gallons	Brix	Set Point	Probe 1	Probe 2
Edit	501	KCCHD08DCAPRSF001	D code	COOL	8575		45	44.9	
Edit	502	KCFRC08DRRDUT+006	D code	COOL	8575		45	44.7	
Edit	503	KCCHD08DCBKOR+020	D code	COOL	8575		45	44.9	
Edit	504			OFF	0		45	62.5	
Edit	505			OFF	0		55	65.1	
Edit	506	kc		OFF	0		55	61	
Edit	507	KCFRC08DRRRIC+009	D code	OFF	8575		55	62.7	
Edit	508	KCFRC08DRRRIC+909	D code	OFF	8528		55	54.4	
Edit	509	KCCHD08DCAHCKF001	D code	COOL	8575		45	44.7	
Edit	510			OFF	0		55	60.7	
Edit	511	KCWZN08DCAUNS+007	D code	OFF	5200		45	60.1	
Edit	512			OFF	0		35	60.6	
Edit	513			OFF	0		35	58.7	
Edit	514	KCSGBNADCAHCK+001	D code	COOL	5200		45	44.6	
Edit	515			OFF	0		45	59.6	

Start In... Se... Wi... Ta... Ta... Mi... 2:44 PM

MAIN TANKNET VIEW



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http://10.10.1.78/settings.aspx

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Graphing Lot Status Codes Alarms Notifications Blend Libraries Users

LotStatus Settings

User	Color	Edit
A code	Yellow	Edit
A code topped	Yellow	Edit
A code topped ON STAVES	Yellow	Edit
A code wine lees	Yellow	Edit
B code	Pink	Edit
Brandy	Goldenrod	Edit
C code	LightSkyBlue	Edit
C code on Bento	LightSkyBlue	Edit
C code topped	LightSkyBlue	Edit
COLD STABLE	LightSkyBlue	Edit
D code	FloralWhite	Edit
Deacidification	FloralWhite	Edit
End Ferm on Skins	LightGreen	Edit

Start Inbo... Sessi... Sessi... Tank... Micro... 2:54 PM

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http://10.10.1.78/settings.aspx

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TankNET by Acrolon Technologies,...

Graphing Lot Status Codes Alarms Notifications Blend Libraries Users

Alarm Notifications

Enabled:	<input checked="" type="checkbox"/>
Temperature Alarms sent in:	Fahrenheit
Send All Alarms to:	"KORBEL\rvalencia" <Rvalencia@korbel.com> "KORBEL\joseguera" <joseguera@korbel.com>
Send Temperature Alarms to:	"KORBEL\russell" <russell@korbel.com>
Send Network Alarms to:	support@acrolon.com gec@inreach.com "KORBEL\russell" <russell@korbel.com>
Send Database Alarms to:	support@acrolon.com
Mail From:	tanknet@korbel.com

Start Inbo... Sessi... Sessi... Tank... Micro... 2:55 PM

Tank Group: 501-523 \

502

Basic

Advanced

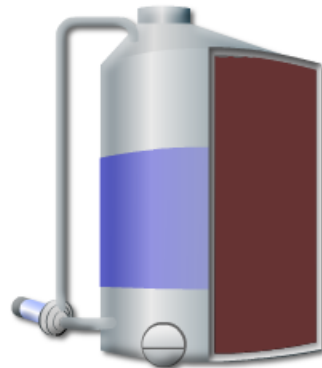
Alarm

Graph

Notes

Audit

502



44.8°F

Capacity
8575 Gallons

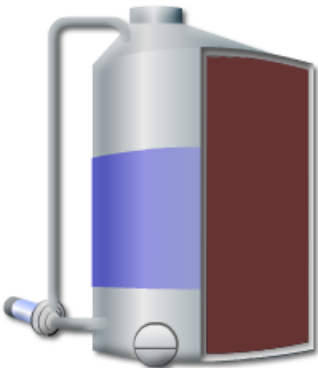
ONLINE

Thermostat Settings

Lot Code	<input type="text" value="KCFRC08DRRDUT+006"/>	<input type="button" value="Move Lot"/>	<input type="button" value="Empty Tank"/>
Description	<input type="text"/>		
Gallons	<input type="text" value="8575"/>		
Lot Status	<input type="text" value="D code"/>		
Brix	<input type="button" value="Add Brix Record"/>		
Pump Over	<input checked="" type="radio"/> OFF <input type="radio"/> ON	Duration	<input type="text" value="15"/> (M)
Mode	<input type="text" value="COOL"/>		
Set Point 1	<input type="text" value="45"/>		

Tank Group: 501-523 | 502

- Basic
- Advanced
- Alarm
- Graph
- Notes
- Audit

502		44.8°F
Capacity 8575 Gallons		ONLINE

Advanced Thermostat Settings

Cool Probe	Probe 1	Cool Relay	Relay 1
Heat Probe	Probe 1	Heat Relay	RELAY_2
Disable Heat Mode:	<input checked="" type="checkbox"/>	# of Cooling Jackets:	1
Differential:	0.1		

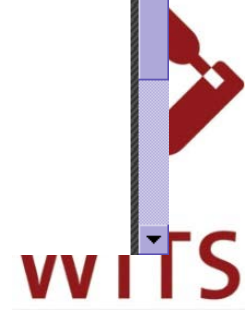
Local Settings

Display Units	<input checked="" type="checkbox"/> Locked	Fahrenheit
---------------	--	------------

Network Information

DeviceType	TC1	Firmware	2.2
NeuronID	00A320226600	Functions	<input type="button" value="Wink"/> <input type="button" value="Reset"/>

- Save And Return
- Save
- Cancel



Tank Group: 501-523 \

502

Basic

Advanced

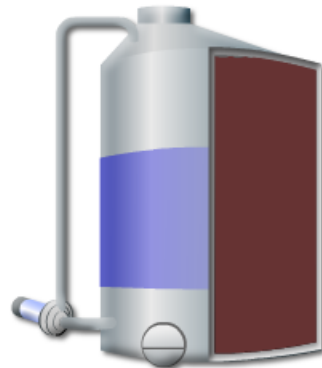
Alarm

Graph

Notes

Audit

502



44.9°F

Capacity
8575 Gallons

ONLINE

Alarm Enables

Network Alarms

Enabled

Audible Alarm (AUD)

Enabled

CC Email:

"KORBEL valencia" <Rvalencia@kobel.com>
"KORBELjoseque"



Local Alarms

Enable	Probe:	Temperature	Low Alarm	High Alarm
<input checked="" type="checkbox"/>	Probe 1	44.9	40	60
<input type="checkbox"/>	Probe 2	---	32	100.4
<input type="checkbox"/>	StratiProbe			

Save And Return

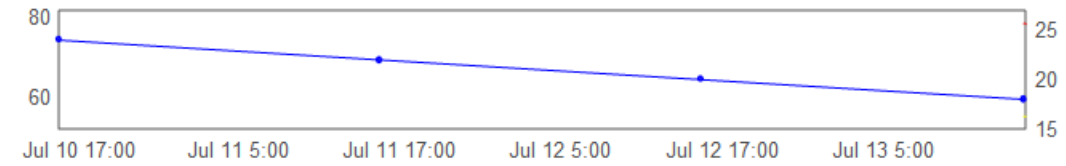
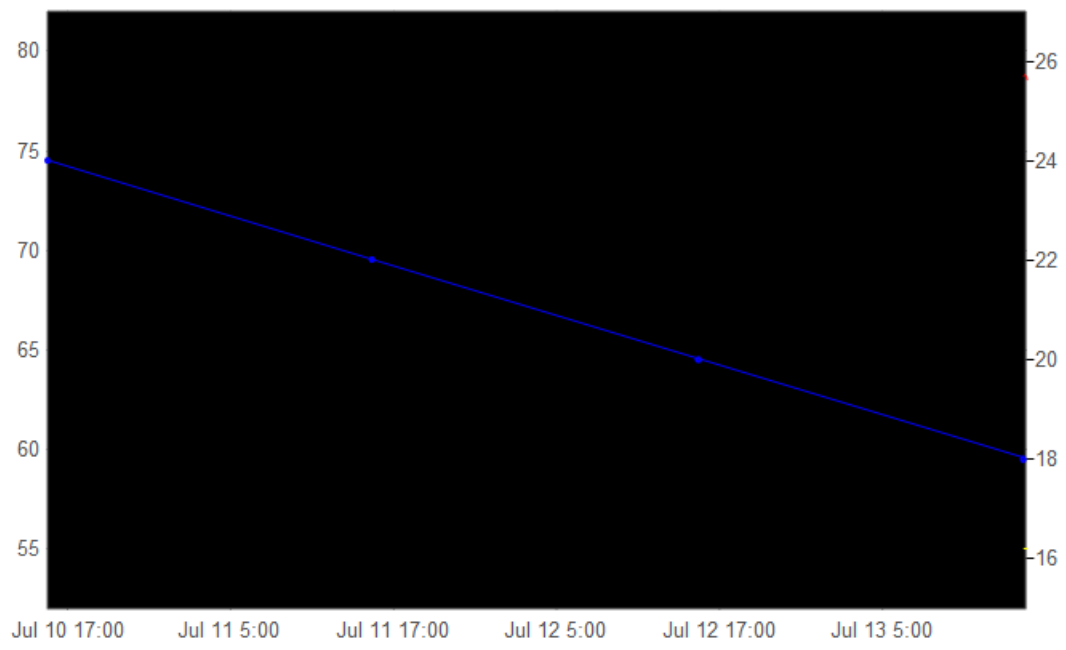
Save

Cancel

Control Panel \ kcbg09jcakor+001 (449)

- Graph
- Data
- Blend Notes
- Preferences

PROBE1 PROBE2 SETPOINT1 BRIX



Tank Group: 501-523 \

502

Basic

Advanced

Alarm

Graph

Notes

Audit

Audit Records for: 502 (7/13/2009-7/6/2009)

<input type="checkbox"/> Collase All	Time	User	Changed
<input type="checkbox"/>	7/13/2009		
	2:59 PM	Controller	Probe 1 alarm low changed to 39.99F.
	2:59 PM	KORBEL\russell	OLD_PROBE1ALARMHI=68; NEW_PROBE1ALARMHI=60F; OLD_PROBE1ALARMLO=28.02; NEW_PROBE1ALARMLO=40F;
	2:59 PM	Controller	Probe 1 alarm low changed to 28.02F.
<input type="checkbox"/>	7/10/2009		
	1:27 PM	Controller	Device mode changed to Cool. Setpoint changed to 45F. Setpoint Diff changed to 0.18F. Heat Mode Disable changed to TRUE. Pumpover duration changed to 15. AlarmConfig changed to 129. ShowUnits changed to 1.

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http://10.10.1.78/wineryMap.aspx?groupID=B1A

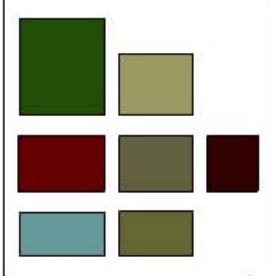
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TANKNET
BY ACROLON TECHNOLOGIES, INC.

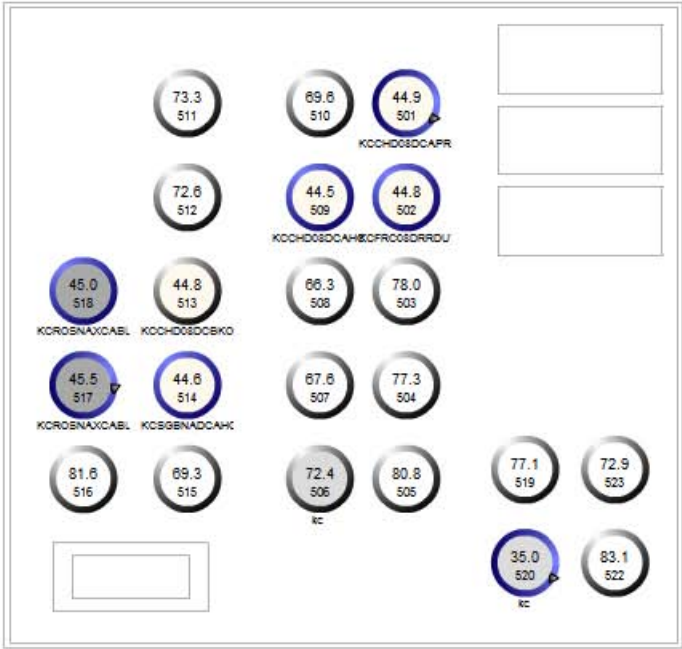


Tank Groups

Fermentations

Settings

About TankNET



Tank ID	Value	Label
511	73.3	
510	69.6	KOCHD08DCAPR
501	44.9	
512	72.6	
509	44.5	KOCHD08DCAH&CFRC08ORRDU
502	44.8	
518	45.0	KOR08NAKCABL
513	44.8	KOCHD08DCEKO
508	66.3	
503	78.0	
517	45.5	KOR08NAKCABL
514	44.6	KO88ENADDAHK
507	67.6	
504	77.3	
516	81.6	
515	69.3	
506	72.4	KC
505	80.8	
519	77.1	
523	72.9	
520	35.0	KC
522	83.1	

1902 - Session successfully started

HP DESKJET 895CXI 011 LPT1.

Start Inbo... Sessi... Sessi... Tank... Micro... 2:40 PM

TankNET Control/Integration

Wine Tank Temperature Control: A full line of affordable controls specifically designed for the wine industry

Fermentation Management: Automated Brix measurements and pump over control

Winery Integration: Powerful web software to monitor and control all aspects of your winery



- **TankNET® TC-1 Fermentation Controller**



Calibration-Free Temperature Control

Rugged, Water-tight Enclosure

Strati-Probe Compatible

Enhanced Modes and Control Functions

Optional Input for Brix Probe

Optional Output for Pump Control

Free-Topology Networking



Benefits Realized by F. Korbel & Bros., Inc

- Better visibility of tank farm status
 - Winemaking and Cellar share the vision
- Fewer “runaway” fermentations
 - Better accessibility to fermentation/temperature data
 - Easier Graphing/Visual interpretation of data
 - Alarm System
- Less manpower hours to monitor fermentation/temps
- Easier organization of juice/wine by lot status
- Real time juice/wine tracking

