

PRODUCT SPECS



Vacuum Furnace Control System

Specifications

Typical VAC AERO hardware/software configuration

- Honeywell's Experion HS SCADA Software
- Televac MC300/MM200 Vacuum Gauge Controller
- Honeywell UDC 3200 Over Temperature
 Controller
- Computer Interface

Platform

- The system uses the Honeywell HC 900 hybrid controller to manage furnace functions and run Set Point Programmer.
- The HC 900 is integrated with Honeywell's Experion HS to provide supervisory control and data acquisition (SCADA).
- Operator interface is provided through a large, color touch screen.
- Process information is accessible by operators and across a company's network for process engineers, allowing control and monitoring for higher productivity, reduced costs and increased quality.





Key Benefits of the HS R400 Hybrid Controller:

- Compatibility with plant wide SCADA and network integration.
- Process cycle validation.
- Extensive alarm and event management and reporting.
- Temperature control using advanced algorithms, auto tuning, and multiple zone digital trimming.
- Operator sign-on/sign-off security provides up to 255 control levels to limit operator control of individual items of plant and equipment.
- Enhanced maintenance and troubleshooting management and trending.

Other Features

- Easily programmable in engineering units.
- Up to 1000 programs, of 2 to 50 segments in length can be stored on the HS server.
- Alarms and events may be programmed to send an e-mail message or call a pager.
- Operator Interface provides user-friendly displays along with local trending and data archiving capabilities.
- Supports direct PC connection or external Modem connection for configuration upload, download, debug and maintenance.
- Alarm / Event Log reports all alarms and events in a specified time period.
- Alarm Duration Log reports the time of occurrence and elapsed time before return-to-normal for specific alarms in a specified time period.
- Batch Reports collect batch data and load detail information, history for a set of points (up to 50) and events that occurred relative to a process production run.
- Reports may be generated periodically, or on an eventdriven or demand basis.
- History collection is available over a wide range of frequencies in both average and snapshot/production formats.
- Flexible Trend Configuration allows users to configure up to 3000 Trend templates. Real-time and historical data are presented together on the same trend.



Typical VAC AERO Control Cabinet



Main Overview Vertical Furnace



Main Overview Horizontal Furnace

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Controll	er F19 HC90	0A 🗾 Pr	ogrammer SP	P #1		Status	: R	eady	/										1	È.
Profile													Ρ	rima	агу		Auxi	liary		
Ramp Typ Time Units	e RATE s Hours	¥ ¥	Guar. H Guar. H Guar. H	lold T lold L lold H	lype .o Lim ti Lim	_N₀ _0.0	ne D			a	EI P' Si	J V P	3.(100.	000		1000	0000		
Program (Show	Control			i	Event #1 Event #2 Event #3	= Vacu = High = Partia	um Vacuu al Pres	m sure	Ľ					-	_	_			-	
Segment	Туре	Start Value/ Soak Value	Rate/ Soak Time		Event #4 Event #5	= Reser = Gas (ved Juenc	h		5	67	Ever	nts 9	10	Ever	12 1	scrip	tion 15	16	_
1	Soak 💌	0.00	0.00		Event #6 Event #7	= 2 Bar = Load	Press Guara	ure Qu inteed	Jench Soak	μ́ε	ΪĆ	ιů			ΰı			Ö I		÷
2	Soak 💌	0.00	0.00		Event #8 Event #9	= End o	f Prog le Hea	aram at	6	þc										
3	Soak 💌	0.00	0.00		Event #1	0 to #14 5 = Cycle	Quali	fication	l n Deshar	þc										
4	Soak 💌	0.00	0.00		Evenc #1	o = Disau		omacic	Restar	þ										
5	Soak 💌	0.00	0.00			OK				þ										
6	Soak 💌	0.00	0.00		0.00															
7	Soak 💌	0.00	0.00		0.00															
8	Soak 💌	0.00	0.00		0.00															
9	Soak 💌	0.00	0.00		0.00															
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Comman	d Programmer] Segme	nt Time Remainin 0000:00:00	9	Program O	n Elaps 000:00:0	ed Ti 10	me	[Uplo	ad fr	om Co	ontrol	ler		Down	load t	o Con	trolle	r

Monitor Set Point Profile (Program)



Monitor Set Point Profile (Program) - Trending

Select Profile				
Profile	Name	Description		
1	Profile1	Test combined Recipe	-	An HC900/UMC800 Profile is a time-based program typically
2	Profile2	Test Profile 2		used as the setpoint of a control loop. Each program may be from
3	Profile3	Profile 3 description		2 to 50 segments in length. Each segment of the program may be a
4	<u>1seg</u>	quick 1 seg test		ramp or soak except the last segment that must be a soak.
5	prog 100	Furnace clean up		Up to 1000 profiles may be
6	<u>TestEnd</u>	Test End Prog		created and maintained using the PlantScape HC900/UMC800 Profile
Z	<u>FastTest</u>	Dep17 Survey Fce w/ 12 TC's		Configuration pages.
<u>8</u>	<u>Clean Up</u>	Std profile to clean empty fce		In addition to the main output value, a second analog value is available
9	<u>Survey</u>	Dep17 Survey Fce w/ 12 TC's		for each step of the program. This output is a fixed soak value which
<u>10</u>	Prof10	Test Batch Report		may be used as an input to another function or to provide a setpoint
<u>11</u>	<u>P11_tBR</u>	Test Batch Report		value for a secondary control loop in the process.
<u>12</u>	-			A setpoint guarantee function is
<u>13</u>				if a process variable exceeds a
<u>14</u>				Selections allow setpoint guarantee
<u>15</u>	<u>VA Test</u>	Demo Profile	-	for soaks only, or for user specified segments.

Profile (Program) Selection for Editing, Creating New Profile

Profile #	5																				1	
Name p	orog 100	Des	cription Furna	ce clear	n up								E	ng Ui	nits	de	egf					
Ramp Ty Time Uni	pe RATE ts Minute	▼ 95 ▼	Guar. Guar. Guar.	Hold Ty Hold La Hold Hi	/pe o Lim i Lim	Pe 0.0	r Se O O	g	8				A	ux O ux Ei	ut La ng Ui	abel nits		PPre MCR	ssur N	-		
Program Hide	Control Re 2	estart Rate	Loop Sta	rt Segr	nent	Lo	op E	nd S	Segn	nent	t	[log S O	Segm	ent			L	oop)	Cycle	es	
Segment	Туре	Start Value/ Soak Value	Rate/ Soak Time	Guar Hold	Aux Start Value		1	2	3	4	5	6	Eve 7	ents 3 9	10	11	12	13	14	15 1	6	_
1	Soak 💌	0.00	0.05		0.00		×	Ď	Ď	ò	Ď١	ŏ (ΪĎ	ũ	ü	Ē	ũ	Ö		ĭ	Ĥ
2	Ramp 💌	0.00	20.00		0.00		×														1	
3	Soak 💌	2450.00	60.00		0.00		×														1	
4	Ramp 💌	2450.00	99999.00		0.00		×														1	
5	Soak 💌	0.00	2.00	×	0.00		×														1	
6	Soak 💌	0.00	0.00		0.00																ן נ	
7	Soak 💌	0.00	0.00		0.00																1	
8	Soak 💌	0.00	0.00		0.00																2	
9	Soak 💌	0.00	0.00		0.00																1	
10	Soak 💌	0.00	0.00		0.00																1	¥.
Clor	ne a Profile]									Upl	oad fi	om (ontro	ller		Do	wnloa	ad to	Contr	oller	ŗ

Profile (Program) Definition



Digital Trimming



Heat Power Adjustment Screen

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Trend Screen Example

Station - Dep19_Full.stn - CycleControlStart (305)	
Station Edit View Control Action Configure Help	
Image: Construction Image: Construction	e Furnace Vac Control Cycle Abort Pump Config Config Maintenance
Setpoint Program Control SPP Status Ready Profile #/Name 32 TestBR Duration 2 Min Description Test Batch Report Batch Information Furnace # 69025	Set Over Temp Controller Using Value of: 10 °F Daily Servicing Checks
Batch ID br1 Number of pieces in run 1 Units Employee ID - Start VA Batch description Test Batch Report Interface No heat Sequence # 3 Batch Report File Irpt001-b69025-lbr1-s003-r00-p00 Batch Report Status Ready	1Checks Check Furnace interior is clean, check elements, ceramics, hot zone and thermocouples for signs of damage. Vacuum out any debris found. Report any damage found to Maintenance. Check alarms using alarm test function. Check water system is running and waterflow is visible in sight glasses. Check oil level in Roughing pump sight glass off. Check oil evel in Holding pump sight glass off.
Modify Start Cycle	Check di level in Diffusion pump signt glass off. 2 Operate in accordance with Vac Aero Furnace Manual

Start Cycle Interface with Batch Information

Page 8

Batch Informatio	n -	Cycle Qualification
Batch identifier	b1	
Lot identifier	11	
Size of production run	SizeOfRun Units	O Cycle successful
Number of pieces in run	EmployeID Units	
Employee ID - Start	JD1 JD1 JD2	
Employee ID - Unload	JD2	Cause of Failure Max Deviation
Batch description	EmployeID	Temperature Deviation
	EmployeID	positive 🗖 0.0 °F
Product re-run	No <u> </u>	negative 🗖 🛛 0.0 °F
Sequence #	1	Time Deviation
Batch Report File	rpt001-bb1-ll1-s001-	
Batch Report Status	Ready	Vacuum Deviation 🗖 🛛 0.0 Micron
Setpoint Progra	m Control	Reset Acknowledge
Profile Number	2.0	
Name	DC002237	
Description		Trut Data
Duration	550.0	Modify Tank Release

Cycle End Interface with Batch Information

Microsoft Excel - rpt001-bB1-lL1-	s025-r00-p00.xls [Read-Only]						
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2 Report name	DR 13. Jul 2006, 08:33:31	1100.	1111	14	Quantity		
A	15 501 2000, 00:05:01	2	222	30	444		
5 Batch identifier	B1	3	333				
6 Lot identifier	L1	4	444	698	18		
7 Size of production run	5	5	555	555	0		
8 Number of pieces in run	5	6			0		
9 Employee identifier	JD jd2	7			0		
10		8			0		
11 Product re-run	No	9			0		
12 Re-run number	0	10			0		
13		11			0		
14 Batch start time	12 Jul 2006, 18:53:23	12			0		
15 Batch end time	13 Jul 2006, 08:33:30	13			0		
16 Batch sequence num	25	14	454545	454545	U		
17 10 Retabuda cardada a	TEOT	15	151515	151515	0		
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14 4 b bl Report Details Historic	al Data / Events Data / History Granh /	11		1	1 1		- Diale Contraction of the second sec
Ready						NUM	

Excel Batch Report – Report Details

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1	A Historical point list	Batch R	enort List	U	E	F	6	н		J	ĸ	L	M	<u> </u>
12	History type	5 secon	d											
3	Number of points	7	-											
4	Number of samples	9842												
5														
6														
7		FCETC	SPP-SP	LOAD-02	LOAD-03	LOAD-04	LOAD-05	LOAD-06						
18	Date Time	PV 255	PV	PV	PV	PV	PV	PV						
9	13 Jul 2006, 08:33:30	255		0	0	0	0	0						
11	13 Jul 2006, 08:33:20	255	0	0	0	0	0	0						
12	13 Jul 2006, 08:33:15	255	0	ů n	0	0	0	0						
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14	13 Jul 2006, 08:33:05	255	Ō	Ō	Ō	0	Ō	Ō						
15	13 Jul 2006, 08:33:00	255	0	0	0	0	0	0						
16	13 Jul 2006, 08:32:55	255	0	0	0	0	0	0						
17	13 Jul 2006, 08:32:50	255	0	0	0	0	0	0						
18	13 Jul 2006, 08:32:45	255	0	0	0	0	0	0						
19	13 Jul 2006, 08:32:40	255	0	0	0	0	0	0						
20	13 Jul 2006, 08:32:35	255	0	0	0	0	0	0						
21	13 Jul 2006, 08:32:30	255	0	0	0	0	0	0						
22	12 101 2006, 00:32:25	200	0	0	0	0	0	0						
23	13 Jul 2006, 08:32:15	255	0	0	0	0	0	0						
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27	13 Jul 2006, 08:32:00	255	0	0	0	0	0	0						
28	13 Jul 2006, 08:31:55	255	0	0	0	0	0	0						
29	13 Jul 2006, 08:31:50	255	0	0	0	0	0	0						
30	13 Jul 2006, 08:31:45	255	0	0	0	0	0	0						
31	13 Jul 2006, 08:31:40	255	0	0	0	0	0	0						
32	13 Jul 2006, 08:31:35	255		0	0	0	0	0						
33	13 Jul 2006, 08:31:30	205	0	0	0	0	0	0						
14 4	Report Details Historic	al Data 🖌	Events Data	History Gra	ph /	U	U	Ĭ						. d

Excel Batch Report – Historical Data



Excel Batch Report – History Graph

	Load	d Guarar	nteed Hold -	Status an	d Con	figuratio	on
T/C #	Disable TC Input	T/C Status	Temperature	Deviation	Enable for LGS	Alarm	
1		OK	1494.7 °F	53 °F	X	OK	2.8 °F
2		OK	1496.1 °F	-3.9 °F	X	ОК	-2.8 °F
3		ОК	1500.0 °F	0 °F	X	ок	.2.8 °F
4		ок	1490.4 °F	.9.6 °F	IX	ок	2.8 °F
5		OK	1495.9 °F	-4.1 °F	IX	ок	-2.8 °F
6		OK	1494.8 °F	-5.2 °F	X	ок	-2.8 °F
7		ок	1495.6 °F	-4.4 °F	x	ок	.2.8 F
8		ок	1494.2 °F	.5.8 °F	X	ок	-2,8 °F
9		ок	1496.4 °F	-3.6 °F	X	ок	-2.8 °F
10		OK	1499.0 °F	-1 °F	x	OK	-2.8 °F
10	1000	OK	1497 8 °E	22 °F	X	ок	2.8 °F
11		UN		Call and a			

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Load Guaranteed Hold Status & Configuration Screen



Pumps Maintenance - Timers



PLC Alarms

Overview LGH Hard Alarr	ns Trend Summary Cycle Start E	nd Cycle 🕨 🔫 📢 🕶 🕻	Configuration				
Alams	CHARTHREE H	224224242242	AREA AREA	39-32		-CERS-	Message S
cation 🖌 View: (i	ali alarms) 				Dear All Filters UReset View		
Date & Time 🔨	Location Tag	Source	Condition	Priority	Description	Trip Value L	we Value
2/28/2011 9:37:42		ALN2DP	ALARM	U 00	Argon Dew Point Alarm		OFF
/28/2011 9:35:20		LOAD_10	PVH	H 00	Load TC 10	2,400.00	1,001.00*
2/28/2011 9:35:20		LOAD_12	PVH	H 00	Load TC 12	2,400.00	1,000.00*
/28/2011 9:35:18		LOAD_06	PVH	H 00	Load TC 06	2,400.00	1,000.00
/28/2011 9:35:18		LOAD_07	PVH	H 00	Load TC 07	2,400.00	1,001.00*
/28/2011 9:35:18		LOAD_08	PVHI	H 00	Load TC 08	2,400.00	999.00°
/28/2011 9:35:18		LOAD_09	PVHI	H 00	Load TC 09	2,400.00	998.00
/28/2011 9:35:16	A1	N2DEWPNT	RSHI	U 00	Nitrogen Dew Point	2,400.00	0.00
/28/2011 9:35:16		LOAD_05	PVHI	H 00	Load TC 05	2,400.00	1,000.00
/28/2011 9:35:00		LOAD_03	PVH	H 00	Load TC 03	2,400.00	1,000.00
/28/2011 9:35:00		LOAD_04	PVHI	H 00	Load TC 04	2,400.00	1,001.00
/28/2011 9:34:58		LOAD_02	PVH	H 00	Load TC 02	2,400.00	985.00
25/2011 16:11:34		ALFLPHI	ALARM	U 00	Diffusion Pump Foreline High Pressure A	ON	OFF
10/2011 11:46:32		ALPS1WAT	ALARM	U 00	Low Main Water Pressure Alarm	ON	ON
/26/2011 15:38:26		ALPS4IG	ALARM	U 00	Low Inert Gas Pressure Alarm	ON	ON
26/2011 15:37:36		TCFAL	ALARM	U 00	Fail TC Alarm	ON	ON
/26/2011 15:37:32		RPPAOIL	RSHI	U 00	Roughing Pump A Oil Temperature	2,400.00	2,400.00
26/2011 15:37:32		RPPAOIL	PVHI	H 00	Roughing Pump A Oil Temperature	2,400.00	2,400.00
26/2011 15:37:32		RPMPOIL	RSHI	U 00	Roughing Pump Oil Temperature	2,400.00	2,400.00
/26/2011 15:37:32		RPMPOIL	PVH	H 00	Roughing Pump Oil Temperature	2,400.00	2,400.00
26/2011 15:37:32	A1	DIFFPPA_TC	RSHI	U 00	Diffusion Pump A TC	2,400.00	2,400.00
/26/2011 15:37:32		RPPAHOT	ALARM	U 00	Roughing Pump A Oil is HOT	ON	ON
/26/2011 15:37:32		RPMPHOT	ALARM	U 00	Roughing Pump Oil is HOT	ON	ON
/26/2011 15:37:32		DIFFPPAHOT	ALARM	U 00	Diffusion Pump A is HOT	ON	ON
/26/2011 15:37:32		DPMPHOT	ALARM	U 00	Diff Pump is HOT	ON	ON
/26/2011 15:37:32		HEATX_TC	RSHI	U 00	Heat Exchanger TC	2,400.00	2,400.00
/26/2011 15:37:32		HEATXHOT	ALARM	U 00	Heat Exchanger is HOT	ON	ON
/26/2011 15:37:32		WATER_TC	RSHI	U 00	Inlet Water TC	2,400.00	2,400.00
/26/2011 15:37:32		WATER_TC	PVH	H 00	Inlet Water TC	2,400.00	2,400.00
/26/2011 15:37:32		WATERHOT	ALARM	U 00	Water is HOT	ON	ON
/26/2011 15:37:32		DIFFPP8_TC	RSHI	U 00	Diffusion Pump B TC	2,400.00	2,400.00
/26/2011 15:37:32		RPPBOIL	RSHI	U 00	Roughing Pump B Oil Temperature	2,400.00	2,400.00
/26/2011 15:37:32		RPPBOIL	PVHI	H 00	Roughing Pump B Oil Temperature	2,400.00	2,400.00
/26/2011 15:36:18	A1	N2DEWSP	RSHI	U 00	Nitrogen Dew Point Alarm Setpoint	1,209.00	1,210.00
knowledged alarms:	30						
owledged alarms:	41				Pause O Resume	Ackn	owledge Par

Alarms Screen



Advanced Furnace Configuration



Vacuum Control - Set point Configuration





Station - EAT4 - Event Sur	nmary(sysEventSummary.htm)						-
ation Edit Yew Control	Action Configure Help						
n Overview LGH Hard A	larms Trend Summary Cycle Sta	et End Cycle 🕨 🖛 🔫	Configuration				
Events	and a state of the	SERVER ASSA	CP-SRP-S	22-52	REAR	and the second second	quence of Events Sumn
ocation - View:	(all recent events with live	updates) +			Die:	ar All Filters 🙂 Reset View 🔛	
ate & Time	Location Tag	Source	Condition	Action	Priority	Description	Value Units
28/2011 9:49:32	ExpVistaServer	Alm Notification	FAIL		U 00	illegal point number	ANY
8/2011 9:48:36		ALFLPHI	ALARM	ACK		Diffusion Pump Foreline High Pressure	AL ON
28/2011 9:48:36		LOAD_02	PVH	ACK		Load TC 02	2,400.00 *F
28/2011 9:48:36		LOAD_04	PVHI	ACK		Load TC 04	2,400.00 °F
28/2011 9:48:36	A1	LOAD_03	PVH	ACK		Load TC 03	2,400.00 *F
28/2011 9:48:36		LOAD_05	PVH	ACK		Load TC 05	2,400.00 *F
28/2011 9:48:36	A1	N2DEWPNT	RSHI	ACK		Nitrogen Dew Point	2,400.00 °C
28/2011 9:48:36	A1	LOAD_09	PVHI	ACK		Load TC 09	2,400.00 'F
28/2011 9:48:36		LOAD 08	PVH	ACK		Load TC 08	2,400.00 *F
28/2011 9:48:36		LOAD_07	PVHI	ACK		Load TC 07	2,400.00 °F
28/2011 9:48:36		LOAD 06	PVHI	ACK		Load TC 06	2,400.00 °F
28/2011 9:48:36		LOAD_12	PVH	ACK		Load TC 12	2,400.00 *F
8/2011 9:48:36	A1	LOAD_10	PVH	ACK		Load TC 10	2,400.00 °F
28/2011 9:48:36		ALN2DP	ALARM	ACK		Argon Dew Point Alarm	ON
28/2011 9:43:03	A2	BRSTATUS	CHANGE			SP	0.00
28/2011 9:43:03	A2	BRSTATUS	CHANGE			SP	0.00
28/2011 9 42 57	A2	BRSTATUS	CHANGE			SP	0.00
8/2011 9:41:22	A1	N2PURGED	CHANGE		J 00 L	Nitropen Line Purned	ON
28/2011 9-41-22	A1	LOAD 02	PVH	ок	H 00	Load TC 02	985 00 °F
8/2011 9-39-54	A1	PB 2BARO	CHANGE		.1.00	Manual 2bar Quench	ON
28/2011 9:39:54	A1	2BARCB	CHANGE		J 00 L	Checkbox 2bar Quench	On
28/2011 9 39 54	A1	USELINEAROUT	CHANGE		.1.00	Use Linear Output Power	ON ON
8/2011 9:39:54	A1	USELINEAROUT	CHANGE			OP	ON
78/2011 9:39:38	41	LOAD 03	P\/H	OK.	H 00	Load TC 03	1 000 00 *F
8/2011 9 39 34	21	LOAD M	DVH	OK	H 00	Load TC 04	1 001 00 %
08/2011 9 39 32	41	N2DEWA/LV	CHANGE		100	N2 Deservoint Value	ON
78/2011 9-39-22	A1	N2DEWDNT	DSH	OK	11.00	Nitrogen Daw Point	0.0010
28/2011 9-30-22	A1	LOAD OF	DVAN	OK	H 00	Lond TC 06	1 000 00 %
10/2011 0.33.22	2	LOAD_00	Dist	OK	11 00	Load TO 00	1,000,00 F
28/2011 9:33:10	A1	DS 730SI	CHANCE	UN.	100	73 per and loss Proserve Switch	1,000.00 -
012011 5 35 10	A1	1040.07	DIAN	014	5.00	Lond TC 07	1 001 00 15
20/2011 9:39:10	41	1040.08	P VH	OK -	H 00	Load TC 08	999 00 10
002011 9.35.02	A1		CHANCE	UN	100	Offician Dump to Doadu	
20/2011 9:30:54	A1		OVAL	04	J 00	Lond TO 10	1 002 00 15
20/2011 9:38:50	A1	LOAD_10	PVH	OK	H 00	Load TC 10	1,002.00 %
20/2011 9:36:32	A1	LOAD_U9	PVHI D\/HI	OK	H 00	Load TC 12	1 000 00 15
0.2011-9-50-10	A	LOND_12	P VIII	00	11 00		
Iching events:	21227					Pause O Resume	9+ Generate Event

 28-Feb-11 09:49:32 ExpVistaServer Alm Notification FAIL U 00 Illegal point number ANY

 Honeywell
 28-Feb-11
 09:50:25
 Alarm
 System
 elmnywfurnace30
 Stn01
 Mngr

Events Log Screen



History Archiving



I/O Inputs



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I/O Outputs

