

YVAA / YVFA / YAGK (YT3) SC-EQ BAS Points List

Rev 1.8

March 20, 2023

SC-EQ Software Version 4.9.0.12

Long Name (BACnet Object Description)	Short Name (BACnet Object Name)	Notes	IP Units	SI Units	Enum Set	BACnet Object & Instance	N2 Metasys Address	MODBUS Address	MODBUS Scale	MODBUS Data Type	LON Profile Name	LON SNVT Type
Remote Setpoint	REMOTE SETPOINT		*F	*C		AV1	ADF 1	0001	X10	Signed	nviCoolSetPt	SNVT_temp_p
Remote Current Limit Setpoint	REM CURRENT LIMIT SETP		%	%		AV2	ADF 2	0002	X10	Signed	nviCapacityLimit	SNVT_lev_percent
Remote Sound Limit	REMOTE SOUND LIMIT		%	%		AV3	ADF 3	0003	X10	Signed	nviSoundLimit	SNVT_lev_percent
						AV4	ADF 4	0004	X10	Signed		
Remote Start / Stop Command [0=Stop, 1=Run]	REM START STOP CMD		None	None	0=Stop, 1=Run	BV1	BD 1	0061	N/A	Signed	nviChillerEnable	SNVT_switch
Remote FC Valve Open Inhibit	REM FC VALVE OPEN INHIBIT		None	None	0 = Disabled, 1 = Enabled	BV2	BD 2	0062	N/A	Signed	nviFCvlyOpenInh	SNVT_switch
Remote FC Valve Close Inhibit	REM FC VALVE CLOSE INHIBIT		None	None	0 = Disabled, 1 = Enabled	BV3	BD 3	0063	N/A	Signed	nviFCvlyCloseInh	SNVT_switch
						BV4	BD 4	0064	N/A	Signed		
Units	Units		None	None	0=IP (English), 1=SI (Metric)	MV65001	ADI 201	65001	X1	Unsigned		
Leaving Chilled Liquid Temp	LEAVING CHILLED LIQ TEMP		*F	*C		AV5	ADF 5	0005	X10	Signed	nvoLvgCHWTemp	SNVT_temp_p
Entering Chilled Liquid Temp	ENTERING CHILLED LIQ TEMP		*F	*C		AV6	ADF 6	0006	X10	Signed	nvoEntCHWTemp	SNVT_temp_p
VSD Internal Ambient Temp	VSD INT AMBIENT TEMP		*F	*C		AV7	ADF 7	0007	X10	Signed	nvoVSDInternalT	SNVT_temp_p
Sys 1 Condenser Temperature	SYS 1 COND TEMP		*F	*C		AV8	ADF 8	0008	X10	Signed	nvoS1CondTemp	SNVT_temp_p
Sys 1 Discharge Temperature	SYS 1 DISCH TEMP		*F	*C		AV9	ADF 9	0009	X10	Signed	nvoS1DischTemp	SNVT_temp_p
Outside Ambient Air Temperature	OUTSIDE AMBIENT AIR TEMP		*F	*C		AV10	ADF 10	0010	X10	Signed	nvoOutsdAirTemp	SNVT_temp_p
Sys 1 Eductor Temperature	SYS 1 EDUCTOR TEMP	YVAA and YVFA only	*F	*C		AV11	ADF 11	0011	X10	Signed	nvoS1EductorTemp	SNVT_temp_p
Sys 1 Oil Pressure	SYS 1 OIL PRESS		PSIG	BARG		AV12	ADF 12	0012	X10	Signed	nvoS1OilPress	SNVT_press
Sys 1 Suction Pressure	SYS 1 SUCT PRESS		PSIG	BARG		AV13	ADF 13	0013	X10	Signed	nvoS1SuctPress	SNVT_press
Sys 1 Discharge Pressure	SYS 1 DISCH PRESS		PSIG	BARG		AV14	ADF 14	0014	X10	Signed	nvoS1DischPress	SNVT_press
Sys 1 Compressor % Full Load Amps	SYS 1 COMP PCT FLA		%	%		AV15	ADF 15	0015	X10	Signed	nvoS1CompPctFLA	SNVT_lev_percent
Sys 1 Total Run Hours	SYS 1 HOURS		Hr	Hr		AV16	ADF 16	0016	X1	Unsigned	nvoS1RunHours	SNVT_time_hour
Sys 1 Total Number of Starts	SYS 1 STARTS		None	None		AV17	ADF 17	0017	X1	Unsigned	nvoS1SysStarts	SNVT_count
Sys 1 Highest Motor Temp	SYS 1 HIGHEST MOTOR TEMP		*F	*C		AV18	ADF 18	0018	X10	Signed	nvoS1MtrTempHi	SNVT_temp_p
Sys 2 Highest Motor Temp	SYS 2 HIGHEST MOTOR TEMP		*F	*C		AV19	ADF 19	0019	X10	Signed	nvoS2MtrTempHi	SNVT_temp_p
Sys 2 Eductor Temperature	SYS 2 EDUCTOR TEMP	YVAA and YVFA only	*F	*C		AV20	ADF 20	0020	X10	Signed	nvoS2EductorTemp	SNVT_temp_p
Sys 2 Oil Pressure	SYS 2 OIL PRESS		PSIG	BARG		AV21	ADF 21	0021	X10	Signed	nvoS2OilPress	SNVT_press
Sys 2 Suction Pressure	SYS 2 SUCT PRESS		PSIG	BARG		AV22	ADF 22	0022	X10	Signed	nvoS2SuctPress	SNVT_press
Sys 2 Discharge Pressure	SYS 2 DISCH PRESS		PSIG	BARG		AV23	ADF 23	0023	X10	Signed	nvoS2DischPress	SNVT_press
Sys 2 Compressor % Full Load Amps	SYS 2 COMP PCT FLA		%	%		AV24	ADF 24	0024	X10	Signed	nvoS2CompPctFLA	SNVT_lev_percent
Sys 2 Total Run Hours	SYS 2 HOURS		Hr	Hr		AV25	ADF 25	0025	X1	Unsigned	nvoS2RunHours	SNVT_time_hour
Sys 2 Total Number of Starts	SYS 2 STARTS		None	None		AV26	ADF 26	0026	X1	Unsigned	nvoS2SysStarts	SNVT_count
VSD Output Frequency	VSD OUTPUT FREQUENCY		Hz	Hz		AV27	ADF 27	0027	X10	Signed	nvoVSDOutFreq	SNVT_freq_hz
Sys 1 Condenser Drain Valve % Open	SYS 1 COND DRAIN VALVE PCT		%	%		AV28	ADF 28	0028	X10	Signed	nvoS1CNDDrnValve	SNVT_lev_percent
Sys 2 Condenser Drain Valve % Open	SYS 2 COND DRAIN VALVE PCT		%	%		AV29	ADF 29	0029	X10	Signed	nvoS2CNDDrnValve	SNVT_lev_percent
Chiller Run	CHILLER RUN				0=Off, 1=On	BV5	BD 5	0065	N/A	Signed	nvoChillerRun	SNVT_switch
Chiller Alarm [0=No Alarm, 1 = Alarm]	CHILLER ALARM				0=Off, 1=On	BV6	BD 6	0066	N/A	Signed	nvoChillerAlarm	SNVT_switch
Evaporator Heater Status	EVAPORATOR HEATER STATUS				0=Off, 1=On	BV7	BD 7	0067	N/A	Signed	nvoEvapHeater	SNVT_switch
Evaporator Pump Status	EVAPORATOR PUMP STATUS				0=Off, 1=On	BV8	BD 8	0068	N/A	Signed	nvoEvapPump	SNVT_switch
Sys 1 Compressor Run Status	SYS 1 COMP RUN STATUS				0=Off, 1=On	BV9	BD 9	0069	N/A	Signed	nvoS1CompRun	SNVT_switch
Sys 2 Compressor Run Status	SYS 2 COMP RUN STATUS				0=Off, 1=On	BV10	BD 10	0070	N/A	Signed	nvoS2CompRun	SNVT_switch
Sys 1 VI Step Solenoid Valve 1 Status	SYS 1 VI STEP SOL VALVE 1 STATUS				0=Off, 1=Remote	BV11	BD 11	0071	N/A	Signed	nvoS1VlStepSol1	SNVT_switch
Sys 2 VI Step Solenoid Valve 1 Status	SYS 2 VI STEP SOL VALVE 1 STATUS				0=Off, 1=On	BV12	BD 12	0072	N/A	Signed	nvoS2VlStepSol1	SNVT_switch
Sys 1 VI Step Solenoid Valve 2 Status	SYS 1 VI STEP SOL VALVE 2 STATUS				0=Off, 1=On	BV13	BD 13	0073	N/A	Signed	nvoS1VlStepSol2	SNVT_switch
Sys 2 VI Step Solenoid Valve 2 Status	SYS 2 VI STEP SOL VALVE 2 STATUS				0=Off, 1=On	BV14	BD 14	0074	N/A	Signed	nvoS2VlStepSol2	SNVT_switch
						BV15	BD 15	0075	N/A	Signed		
						BV16	BD 16	0076	N/A	Signed		
Evap Anti-Freeze Flow Switch	EVAP ANTI-FREEZE FLOW SWITCH				0=Off, 1=On	BV17	BD 17	0077	N/A	Signed	nvoEvapAfrFlowSw	SNVT_switch
Evap Anti-Freeze Pump Run	EVAP ANTI-FREEZE PUMP RUN				0=Off, 1=On	BV18	BD 18	0078	N/A	Signed	nvoEvapAfrPmpRun	SNVT_switch
Cooling Type [0=Water, 1=Glycol]	COOLING TYPE				0=Water, 1=Glycol	BV19	BD 19	0079	N/A	Signed	nvoCoolingType	SNVT_switch
Local Remote Control Mode [0=Local, 1=Remote]	LOCAL REMOTE CONTROL MODE				0=Local, 1=Remote	BV20	BD 20	0080	N/A	Signed	nvoLocRemCtrlMde	SNVT_switch
Display Units [0=Imperial, 1=SI]	DISPLAY UNITS				0=Imperial, 1=SI	BV21	BD 21	0081	N/A	Signed	nvoDisplayUnits	SNVT_switch
Ready To Start	READY TO START				0=Off, 1=On	BV22	BD 22	0082	N/A	Signed	nvoReadyToStart	SNVT_switch
						BV23	BD 23	0083	N/A	Signed		
						BV24	BD 24	0084	N/A	Signed		
Sys 1 Operational Code	SYS 1 OPERATIONAL CODE		None	None	See Status Codes Tab	MV1	N/A	N/A	N/A	Unsigned	N/A	SNVT_count
Sys 1 Fault Code	SYS 1 FAULT CODE		None	None	See Status Codes Tab	MV2	N/A	N/A	N/A	Unsigned	N/A	SNVT_count
Sys 2 Operational Code	SYS 2 OPERATIONAL CODE		None	None	See Status Codes Tab	MV3	N/A	N/A	N/A	Unsigned	N/A	SNVT_count
Sys 2 Fault Code	SYS 2 FAULT CODE		None	None	See Status Codes Tab	MV4	N/A	N/A	N/A	Unsigned	N/A	SNVT_count
Sys 1 Condenser Fan Stage [0-14]	SYS 1 COND FAN STAGE	If (Standard or Optimized Staged Fans)	None	None		AV405	ADI 5	0034	X1	Unsigned	nvoS1CNDFanStage	SNVT_count
						AV406	ADI 6	0035	X1	Unsigned		
Sys 2 Condenser Fan Stage [0-14]	SYS 2 COND FAN STAGE	If (Standard or Optimized Staged Fans)	None	None		AV407	ADI 7	0036	X1	Unsigned	nvoS2CNDFanStage	SNVT_count
						AV408	ADI 8	0037	X1	Unsigned		

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						AV409	ADI 9	0038	X1	Unsigned		
						MV10	ADI 10	0039	X1	Unsigned		
Local Leaving Chilled Liquid Setpoint	LOCAL LEAVING CHILL LIQ SETP		"F	"C		AV30	ADF 30	0040	X10	Signed	nvoLocLCHWSetPt	SNVT_temp_p
Low Leaving Chilled Liquid Temp Cutout	LOW LEAVING CHILL LIQ CUTOUT		"F	"C		AV31	ADF 31	0041	X10	Signed	nvoLcLvgCHWTOff	SNVT_temp_p
Sys 1 Economizer Valve % Open	SYS 1 ECON VALVE PCT		%	%		AV32	ADF 32	0042	X10	Signed	nvoS1EconVlvPct	SNVT_lev_percent
Sys 2 Economizer Valve % Open	SYS 2 ECON VALVE PCT		%	%		AV33	ADF 33	0043	X10	Signed	nvoS2EconVlvPct	SNVT_lev_percent
Low Suction Pressure Cutout	LOW SUCT PRESS CUTOUT		PSIG	BARG		AV34	ADF 34	0044	X10	Signed	nvoLoSuctPrsOff	SNVT_press
VSD DC Bus Voltage	VSD DC BUS VOLT		Volts	Volts		AV35	ADF 35	0045	X10	Signed	nvoVSDDCBusVolt	SNVT_volt
Remote Leaving Chilled Liquid Setpoint	REM LEAVING CHILL LIQ SETP		"F	"C		AV36	ADF 36	0046	X10	Signed	nvoRemCHWSetPt	SNVT_temp_p
Sys 1 Subcooling	SYS 1 SUBCOOLING	If Cond Type = Microchannel	"F (diff)	"C (diff)		AV37	ADF 37	0047	X10	Signed	nvoS1SubcoolingT	SNVT_temp_p
Sys 1 Evaporator Level	SYS 1 EVAPORATOR LEVEL	If Cond Type = Round Tube	%	%		AV37	ADF 37	0047	X10	Signed	nvoS1EvapLevel	SNVT_lev_percent
Cooling Range	COOLING RANGE		"F (diff)	"C (diff)		AV38	ADF 38	0048	X10	Signed	nvoCoolingRange	SNVT_temp_p
Sys 1 Discharge Superheat	SYS 1 DISCH SUPERHEAT		"F (diff)	"C (diff)		AV39	ADF 39	0049	X10	Signed	nvoS1DschSuperht	SNVT_temp_p
Sys 2 Condenser Temperature	SYS 2 COND TEMP		"F	"C		AV40	ADF 40	0050	X10	Signed	nvoS2CondTemp	SNVT_temp_p
Sys 2 Discharge Temperature	SYS 2 DISCH TEMP		"F	"C		AV41	ADF 41	0051	X10	Signed	nvoS2DschTemp	SNVT_temp_p
Sys 2 Subcooling	SYS 2 SUBCOOLING	If Cond Type = Microchannel	"F (diff)	"C (diff)		AV42	ADF 42	0052	X10	Signed	nvoS2SubcoolingT	SNVT_temp_p
Sys 2 Evaporator Level	SYS 2 EVAPORATOR LEVEL	If Cond Type = Round Tube	%	%		AV42	ADF 42	0052	X10	Signed	nvoS2EvapLevel	SNVT_lev_percent
Sys 2 Discharge Superheat	SYS 2 DISCH SUPERHEAT		"F (diff)	"C (diff)		AV43	ADF 43	0053	X10	Signed	nvoS2DschSuperht	SNVT_temp_p
Sys 1 Lockout	SYS 1 LOCKOUT				0=Off, 1=On	BV25	BD 25	0085	N/A	Signed	nvoS1Lockout	SNVT_switch
Sys 2 Lockout	SYS 2 LOCKOUT				0=Off, 1=On	BV26	BD 26	0086	N/A	Signed	nvoS2Lockout	SNVT_switch
Flow Switch Status	FLOW SWITCH STATUS				0=Off, 1=On	BV27	BD 27	0087	N/A	Signed	nvoFlowSwitch	SNVT_switch
Lead System Number	LEAD SYSTEM NUMBER				0=Sys 1, 1=Sys 2	BV28	BD 28	0088	X1	Unsigned	nvoLeadSysNumber	SNVT_count
						BV29	BD 29	0089	N/A	Signed		
Evaporator Entering Liquid Temp	EVAP ENTER LIQ TEMP	If Free Cooling Enabled	"F	"C		AV48	ADF 48	0105	X10	Signed	nvoEvapEntLiqTmpt	SNVT_temp_p
Cooling Coil Temperature	COOLING COIL TEMP	If Free Cooling Is Closed Loop	"F	"C		AV49	ADF 49	0106	X10	Signed	nvoCoolCoilTemp	SNVT_temp_p
Heat Exchanger Leaving Temperature	HEAT EXCH LEAVE TEMP	If Free Cooling Is Closed Loop	"F	"C		AV50	ADF 50	0107	X10	Signed	nvoHTXchngrLvTmpt	SNVT_temp_p
Heat Exchanger Entering Temperature	HEAT EXCH ENTER TEMP	If Free Cooling Is Closed Loop	"F	"C		AV51	ADF 51	0108	X10	Signed	nvoHTXchngrEnTmpt	SNVT_temp_p
Glycol Pump Speed	GLY PMP SPD	If Free Cooling Is Closed Loop	%	%		AV52	ADF 52	0109	X10	Signed	nvoGlycPumpSpd	SNVT_lev_percent
Cooling Coil Valve	COOLING COIL VALVE	If Free Cooling Is Closed Loop	%	%		AV53	ADF 53	0110	X10	Signed	nvoCoolCoilVlv	SNVT_lev_percent
Cooling Coil Bypass Valve	COOLING COIL BYP VALVE	If Free Cooling Is Closed Loop	%	%		AV54	ADF 54	0111	X10	Signed	nvoCoolCoilBpVlv	SNVT_lev_percent
						AV55	ADF 55	0112	X10	Signed		
						AV56	ADF 56	0113	X10	Signed		
						AV57	ADF 57	0114	X10	Signed		
						AV58	ADF 58	0115	X10	Signed		
Sys 1 Condenser Fan Speed Command	SYS 1 COND FAN SPEED CMD	VSD Fans only	%	%		AV59	ADF 59	0116	X10	Unsigned	nvoS1CNDFanSpPct	SNVT_lev_percent
Sys 2 Condenser Fan Speed Command	SYS 2 COND FAN SPEED CMD	VSD Fans only	%	%		AV60	ADF 60	0117	X10	Unsigned	nvoS2CNDFanSpPct	SNVT_lev_percent
						AV61	ADF 61	0118	X10	Signed		
						AV62	ADF 62	0119	X10	Signed		
Sys 1 XL Condenser Fan Speed Command	SYS 1 XL COND FAN SPD CMD	If Condenser Fan Control Type is Opt. Enh XL	%	%		AV63	ADF 63	0120	X10	Signed	nvoS1XLcndSpdCmd	SNVT_lev_percent
Sys 2 XL Condenser Fan Speed Command	SYS 2 XL COND FAN SPD CMD	If Condenser Fan Control Type is Opt. Enh XL	%	%		AV64	ADF 64	0121	X10	Signed	nvoS2XLcndSpdCmd	SNVT_lev_percent
						AV65	ADF 65	0122	X10	Signed		
						AV66	ADF 66	0123	X10	Signed		
						AV67	ADF 67	0124	X1	Signed		
						AV68	ADF 68	0125	X1	Unsigned		
						AV69	ADF 69	0126	X1	Unsigned		
VSD Frequency Command	VSD FREQUENCY COMMAND		Hz	Hz		AV70	ADF 70	0127	X10	Unsigned	nvoVSDCmdFreq	SNVT_freq_hz
						AV71	ADF 71	0128	X1	Signed		
						AV72	ADF 72	0129	X10	Signed		
						BV34	BD 34	0165	N/A	Signed		
Free Cooling Valve [0=Off, 1=On]	FREE COOLING VALVE	If Free Cooling Enabled			0=Off, 1=On	BV35	BD 35	0166	N/A	Signed	nvoFreeCoolingVl	SNVT_switch
Soft Shutdown [0=Disabled, 1=Enabled]	SOFT SHUTDOWN				0=Disabled, 1=Enabled	BV36	BD 36	0167	N/A	Signed	nvoSoftShutdwnEn	SNVT_switch
Remote Evaporator [0=Disabled, 1=Enabled]	REMOTE EVAPORATOR				0=Disabled, 1=Enabled	BV37	BD 37	0168	N/A	Signed	nvoRemoteEvapEn	SNVT_switch
Quick Start [0=Disabled, 1=Enabled]	QUICK START				0=Disabled, 1=Enabled	BV38	BD 38	0169	N/A	Signed	nvoQuickStartEn	SNVT_switch
						BV39	BD 39	0170	N/A	Signed		
Glycol Pump Run: [0=Off, 1=On]	GLYCOL PUMP RUN	If Free Cooling Is Closed Loop			0=Off, 1=On	BV40	BD 40	0171	N/A	Signed	nvoGlycPumpRun	SNVT_switch
Glycol Heater: [0=Off, 1=On]	GLYCOL HEATER	If Free Cooling Is Closed Loop			0=Off, 1=On	BV41	BD 41	0172	N/A	Signed	nvoGlycHeater	SNVT_switch
						BV42	BD 42	0173	N/A	Signed		
						BV43	BD 43	0174	N/A	Signed		
Sys 1 Condenser Fan VSD Fault	SYS 1 COND FAN VSD FLT	If Condenser Fan Control Type is Opt. Enh OR Opt. Enh XL			0=Off, 1=On	BV44	BD 44	0175	N/A	Signed	nvoS1CdFanVSDflt	SNVT_switch
Sys 2 Condenser Fan VSD Fault	SYS 2 COND FAN VSD FLT	If Condenser Fan Control Type is Opt. Enh OR Opt. Enh XL			0=Off, 1=On	BV45	BD 45	0176	N/A	Signed	nvoS2CdFanVSDflt	SNVT_switch
						BV46	BD 46	0177	N/A	Signed		
						BV47	BD 47	0178	N/A	Signed		

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						BV48	BD 48	0179	N/A	Signed		
						BV49	BD 49	0180	N/A	Signed		
						BV50	BD 50	0181	N/A	Signed		
						BV51	BD 51	0182	N/A	Signed		
						BV52	BD 52	0183	N/A	Signed		
						BV53	BD 53	0184	N/A	Signed		
						MV11	ADI 11	0130	X1	Unsigned		
Free Cooling Mode [0=M,1=Fc,2=Hy]	FREE COOLING MODE	If Free Cooling Enabled			0=Mechanical, 1=Free Cooling, 2=Hybrid	MV12	N/A	N/A	N/A	Unsigned	N/A	SNVT_count
Sys 1 System State	SYS 1 SYSTEM STATE				0=Stopped, 1=Runing, 2=Faulted, 4=Locked Out, 5=Pre-Run	MV13	ADI 13	0132	X1	Unsigned	N/A	SNVT_count
Sys 2 System State	SYS 2 SYSTEM STATE				0=Stopped, 1=Runing, 2=Faulted, 4=Locked Out, 5=Pre-Run	MV14	ADI 14	0133	X1	Unsigned	N/A	SNVT_count
Sys 1 System State AV	SYS 1 SYSTEM STATE AV		None	None	0=Stopped, 1=Runing, 2=Faulted, 4=Locked Out, 5=Pre-Run	AV415	ADI 15	0134	X1	Unsigned	nvoS1SysState	SNVT_count
Sys 2 System State AV	SYS 2 SYSTEM STATE AV		None	None	0=Stopped, 1=Runing, 2=Faulted, 4=Locked Out, 5=Pre-Run	AV416	ADI 16	0135	X1	Unsigned	nvoS2SysState	SNVT_count
Sys 1 Warning Code	SYS 1 WARNING CODE		None	None	See Status Codes Tab	MV15	N/A	N/A	N/A	Unsigned	N/A	N/A
Sys 2 Warning Code	SYS 2 WARNING CODE		None	None	See Status Codes Tab	MV16	N/A	N/A	N/A	Unsigned	N/A	N/A
Sys 1 Warning Code AV	SYS 1 WARNING CODE AV		None	None	See Status Codes Tab	AV417	ADI 17	0136	X1	Unsigned	nvoS1WarningCode	SNVT_count
Sys 2 Warning Code AV	SYS 2 WARNING CODE AV		None	None	See Status Codes Tab	AV418	ADI 18	0137	X1	Unsigned	nvoS2WarningCode	SNVT_count
						AV419	ADI 19	0138	X1	Signed		
						AV420	ADI 20	0139	X1	Signed		
						AV73	ADF 73	0140	X1	Signed		
Sys 1 Fan Kw	SYS 1 FAN KW		kW	kW		AV74	ADF 74	0141	X10	Unsigned	nvoS1FankW	SNVT_power_kilo
Sys 1 Compressor Kw	SYS 1 COMPRESSOR KW		kW	kW		AV75	ADF 75	0142	X10	Unsigned	nvoS1CompkW	SNVT_power_kilo
Sys 2 Fan Kw	SYS 2 FAN KW		kW	kW		AV76	ADF 76	0143	X10	Unsigned	nvoS2FankW	SNVT_power_kilo
Sys 2 Compressor Kw	SYS 2 COMPRESSOR KW		kW	kW		AV77	ADF 77	0144	X10	Unsigned	nvoS2CompkW	SNVT_power_kilo
						AV78	ADF 78	0145	X1	Signed		
						AV79	ADF 79	0146	X1	Signed		
						AV80	ADF 80	0147	X1	Signed		
						AV81	ADF 81	0148	X1	Signed		
						AV82	ADF 82	0149	X1	Signed		
						AV83	ADF 83	0150	X1	Signed		
						AV84	ADF 84	0151	X1	Signed		
						AV85	ADF 85	0152	X1	Signed		
						AV86	ADF 86	0153	X1	Signed		
						BV54	BD 54	0185	N/A	Signed		
						BV55	BD 55	0186	N/A	Signed		
						BV56	BD 56	0187	N/A	Signed		
						BV57	BD 57	0188	N/A	Signed		
						BV58	BD 58	0189	N/A	Signed		
Total Run Hours	TOTAL RUN HOURS	PV = (Sys 1 Total Run Hours + Sys 2 Total Run Hours)	Hr	Hr		N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sys 1 Operational Code AV	SYS 1 OPERATIONAL CODE AV		None	None	See Status Codes Tab	AV501	ADI 1	0030	X1	Unsigned	nvoS1OperCode	SNVT_count
Sys 1 Fault Code AV	SYS 1 FAULT CODE AV		None	None	See Status Codes Tab	AV502	ADI 2	0031	X1	Unsigned	nvoS1FaultCode	SNVT_count
Sys 2 Operational Code AV	SYS 2 OPERATIONAL CODE AV		None	None	See Status Codes Tab	AV503	ADI 3	0032	X1	Unsigned	nvoS2OperCode	SNVT_count
Sys 2 Fault Code AV	SYS 2 FAULT CODE AV		None	None	See Status Codes Tab	AV504	ADI 4	0033	X1	Unsigned	nvoS2FaultCode	SNVT_count
Free Cooling Mode AV [0=M,1=Fc,2=Hy]	FREE COOLING MODE AV	If Free Cooling Enabled	None	None	0=Mechanical, 1=Free Cooling, 2=Hybrid	AV450	ADI 12	0131	X1	Unsigned	nvoFreeCoolingMd	SNVT_count

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YVAA / YVFA / YAGK Operational Code	
*NOTE: for BACnet MSV values add 1 to number	
Code	SC.1
63	Manual Override
64	Daily Schedule Shutdown
65	Unit Switch OFF
66	Remote Controlled Shutdown
67	Loss of External Communications
68	Flow Switch Shutdown
69	VSD Cooling Shutdown
70	N/A
71	N/A
72	N/A
73	N/A
74	No Run Permissive
75	Anti-Recycle Timer Active
76	System Switch OFF
77	System Not Running
78	System Running
79	Discharge Pressure Limiting
80	Suction Pressure Limiting
81	Motor Current Limiting
82	Free Cooling
83	BAS Motor Current Limiting
84	Remote Motor Current Limiting
85	System Shutting Down
86	VSD PreCharging
87	VSD Baseplate Temp Limiting
88	VSD Internal Ambient Temp Limiting
89	Sound Limiting
90	BAS Sound Limiting
91	Remote Sound Limiting
92	Pulldown Motor Current Limiting
93	Cooling Demand Shutdown
94	Input Current Limiting
95	BAS Input Current Limiting
96	Remote Input Current Limiting
97	Pulldown Input Current Limiting

YVAA / YVFA / YAGK Fault/Inhibit Code	
*NOTE: for BACnet MSV values add 1 to number	
Code	SC.2
0	No Faults/Inhibits Present
1	Low Ambient Temperature
2	High Ambient Temperature
3	Low Chilled Liquid Temperature
4	VSD Initialization Failure
5	Low RTC Battery Voltage
6	Invalid Number of Compressors Selected
7	VSD Communications Failure
8	Pre-charge Low DC Bus Voltage
9	Pre-charge DC Bus Voltage Imbalance
10	High DC Bus Voltage
11	Low DC Bus Voltage
12	DC Bus Voltage Imbalance
13	High VSD Ambient Temperature
14	Single Phase Input
15	VSD Power Supply Fault
16	VSD Logic Board Fault
17	Motor Current Overload
18	CT Plug Fault
19	High Harmonic Filter Temperature
20	Evap Anti-Freeze Pump Fault
21	Low Heat Exchanger Temperature
22	Replace RTC Battery
23	N/A
24	N/A
25	N/A
26	N/A
27	High Discharge Pressure
28	High Differential Oil Pressure
29	Low Differential Oil Pressure
30	Low Suction Pressure
31	High Discharge Temperature
32	N/A
33	Eductor Clog Fault
34	Sensor Failure
35	Low Motor Current
36	High Motor Temperature
37	Pre-charge Low DC Bus Voltage
38	Pre-charge DC Bus Voltage Imbalance
39	High DC Bus Voltage
40	Low DC Bus Voltage
41	DC Bus Voltage Imbalance
42	High Motor Current
43	Motor Current Overload
44	IGBT Gate Driver Fault
45	High Baseplate Temperature
46	Single Phase Input
47	VSD Run Signal Fault
48	High Discharge Press (HPCO)
49	Low Suction Superheat
50	Control Voltage Fault
51	Low Discharge Superheat
52	Low Suction Pressure Smart Freeze
53	Isolation Valve Failed to Close Warning
54	Isolation Valve Failed to Open Fault
55	High Discharge Pressure Rate
56	Condenser Fan VSD Warning
57	N/A
58	N/A
59	N/A
60	N/A
61	N/A
62	N/A

YVAA / YVFA / YAGK Warning Code	
*NOTE: for BACnet MSV values add 1 to number	
Code	SC.2
0	No Warning Set
1	Quarterly Service Required – Contact JCI
2	Yearly Service Required – Contact JCI
3	3 Year Service Required – Contact JCI
4	5 Year Service Required – Contact JCI
5	Replace Oil filter
6	Free Cooling Valve Opening Inhibited
7	Free Cooling Valve Closing Inhibited