

APPENDIX B — CCN TABLES

STATUS DISPLAY TABLES

TABLE	DISPLAY NAME	RANGE	UNITS	POINT NAME	WRITE STATUS
CIRCA_AN	Percent Total Capacity	0 - 100	%	CAPA_T	
	Discharge Pressure	nnn.n	PSI	DP_A	
	Suction Pressure	nnn.n	PSI	SP_A	
	Crank Heater Current Cp1	nnn.n	AMPS	cpa1_cur	
	Crank Heater Current Cp2	nnn.n	AMPS	cpa2_cur	
	Crank Heater Current Cp3	nnn.n	AMPS	cpa3_cur	
	Crank Heater Current Cp4	nnn.n	AMPS	cpa4_cur	
	Motor Thermistor Comp 1	nnnn	OHMS	cpa1_tmp	
	Motor Thermistor Comp 2	nnnn	OHMS	cpa2_tmp	
	Motor Thermistor Comp 3	nnnn	OHMS	cpa3_tmp	
	Motor Thermistor Comp 4	nnnn	OHMS	cpa4_tmp	
	Saturated Condensing Tmp	±nnn.n	°F	SCT_A	
	Saturated Suction Temp	±nnn.n	°F	SST_A	
	Suction Gas Temperature	±nnn.n	°F	SUCT_T_A	
	Suction Superheat Temp	±nnn.n	°F	SH_A	
	EXV Position	0 - 100	%	EXV_A	
	Head Press Actuator Pos	0 - 100	%	hd_pos_a	
CIRCA_D	Compressor 1 Output	On/Off		CP_A1	
	Compressor 2 Output	On/Off		CP_A2	
	Compressor 3 Output	On/Off		CP_A3	
	Compressor 4 Output	On/Off		CP_A4	
	Compressor 1 Heater Out	On/Off		cp_a1_ht	
	Compressor 2 Heater Out	On/Off		cp_a2_ht	
	Compressor 3 Heater Out	On/Off		cp_a3_ht	
	Compressor 4 Heater Out	On/Off		cp_a4_ht	
	Hot Gas Bypass Output	On/Off		HGBP_V_A	
	Fan Output DO # 1	On/Off		fan_a1	
	Fan Output DO # 2	On/Off		fan_a2	
	Fan Output DO # 3	On/Off		fan_a3	
	Fan Output DO # 4	On/Off		fan_a4	
	Fan Output DO # 5	On/Off		fan_a5	
	Fan Output DO # 6	On/Off		fan_a6	
	Fan Staging Number	0-6		FAN_ST_A	
	4 Way Refrigerant Valve	On/Off		RV_A	
CIRCB_AN	Percent Total Capacity	0 - 100	%	CAPB_T	
	Discharge Pressure	nnn.n	PSI	DP_B	
	Suction Pressure	nnn.n	PSI	SP_B	
	Crank Heater Current Cp1	nnn.n	AMPS	cpb1_cur	
	Crank Heater Current Cp2	nnn.n	AMPS	cpb2_cur	
	Crank Heater Current Cp3	nnn.n	AMPS	cpb3_cur	
	Crank Heater Current Cp4	nnn.n	AMPS	cpb4_cur	
	Motor Thermistor Comp 1	nnnn	OHMS	cpb1_tmp	
	Motor Thermistor Comp 2	nnnn	OHMS	cpb2_tmp	
	Motor Thermistor Comp 3	nnnn	OHMS	cpb3_tmp	
	Motor Thermistor Comp 4	nnnn	OHMS	cpb4_tmp	
	Saturated Condensing Tmp	±nnn.n	°F	SCT_B	
	Saturated Suction Temp	±nnn.n	°F	SST_B	
	Suction Gas Temperature	±nnn.n	°F	SUCT_T_B	
	Suction Superheat Temp	±nnn.n	°F	SH_B	
	EXV Position	0-100	%	EXV_B	
	Head Press Actuator Pos	0-100	%	hd_pos_b	
CIRCB_D	Compressor 1 Output	On/Off		CP_B1	
	Compressor 2 Output	On/Off		CP_B2	
	Compressor 3 Output	On/Off		CP_B3	
	Compressor 4 Output	On/Off		CP_B4	
	Compressor 1 Heater Out	On/Off		cp_b1_ht	
	Compressor 2 Heater Out	On/Off		cp_b2_ht	
	Compressor 3 Heater Out	On/Off		cp_b3_ht	
	Compressor 4 Heater Out	On/Off		cp_b4_ht	
	Hot Gas Bypass Output	On/Off		HGBP_V_B	
	Fan Output DO # 1	On/Off		fan_b1	
	Fan Output DO # 2	On/Off		fan_b2	
	Fan Output DO # 3	On/Off		fan_b3	
	Fan Output DO # 4	On/Off		fan_b4	
	Fan Output DO # 5	On/Off		fan_b5	
	Fan Output DO # 6	On/Off		fan_b6	
	Fan Staging Number	0-6		FAN_ST_B	
	4 Way Refrigerant Valve	On/Off		RV_B	

APPENDIX B — CCN TABLES (cont)

STATUS DISPLAY TABLES (cont)

TABLE	DISPLAY NAME	RANGE	UNITS	POINT NAME	WRITE STATUS
CIRCC_AN	Percent Total Capacity	0-100	%	CAPC_T	
	Discharge Pressure	nnn.n	PSI	DP_C	
	Suction Pressure	nnn.n	PSI	SP_C	
	Crank Heater Current Cp1	nnn.n	AMPS	cpc1_cur	
	Crank Heater Current Cp2	nnn.n	AMPS	cpc2_cur	
	Crank Heater Current Cp3	nnn.n	AMPS	cpc3_cur	
	Crank Heater Current Cp4	nnn.n	AMPS	cpc4_cur	
	Motor Thermistor Comp 1	nnnn	OHMS	cpc1_tmp	
	Motor Thermistor Comp 2	nnnn	OHMS	cpc2_tmp	
	Motor Thermistor Comp 3	nnnn	OHMS	cpc3_tmp	
	Motor Thermistor Comp 4	nnnn	OHMS	cpc4_tmp	
	Saturated Condensing Tmp	±nnn.n	°F	SCT_C	
	Saturated Suction Temp	±nnn.n	°F	SST_C	
	Suction Gas Temperature	±nnn.n	°F	SUCT_T_C	
	Suction Superheat Temp	±nnn.n	°F	SH_C	
	EXV Position	0-100	%	EXV_C	
	Head Press Actuator Pos	0-100	%	hd_pos_c	
CIRCC_D	Compressor 1 Output	On/Off		CP_C1	
	Compressor 2 Output	On/Off		CP_C2	
	Compressor 3 Output	On/Off		CP_C3	
	Compressor 4 Output	On/Off		CP_C4	
	Compressor 1 Heater Out	On/Off		cp_c1_ht	
	Compressor 2 Heater Out	On/Off		cp_c2_ht	
	Compressor 3 Heater Out	On/Off		cp_c3_ht	
	Compressor 4 Heater Out	On/Off		cp_c4_ht	
	Hot Gas Bypass Output	On/Off		HGBP_V_C	
	Fan Output DO # 1	On/Off		fan_c1	
	Fan Output DO # 2	On/Off		fan_c2	
	Fan Output DO # 3	On/Off		fan_c3	
	Fan Output DO # 4	On/Off		fan_c4	
	Fan Output DO # 5	On/Off		fan_c5	
	Fan Output DO # 6	On/Off		fan_c6	
	Fan Staging Number	0-6		FAN_ST_C	
	FAN Operating Hours				
	Circuit A Fan #1 Hours	nnnnn	hours	hr_fana1	
	Circuit A Fan #2 Hours	nnnnn	hours	hr_fana2	
FANHOURS	Circuit A Fan #3 Hours	nnnnn	hours	hr_fana3	
	Circuit A Fan #4 Hours	nnnnn	hours	hr_fana4	
	Circuit A Fan #5 Hours	nnnnn	hours	hr_fana5	
	Circuit A Fan #6 Hours	nnnnn	hours	hr_fana6	
	Circuit B Fan #1 Hours	nnnnn	hours	hr_fanb1	
	Circuit B Fan #2 Hours	nnnnn	hours	hr_fanb2	
	Circuit B Fan #3 Hours	nnnnn	hours	hr_fanb3	
	Circuit B Fan #4 Hours	nnnnn	hours	hr_fanb4	
	Circuit B Fan #5 Hours	nnnnn	hours	hr_fanb5	
	Circuit B Fan #6 Hours	nnnnn	hours	hr_fanb6	
	Circuit C Fan #1 Hours	nnnnn	hours	hr_fanc1	
	Circuit C Fan #2 Hours	nnnnn	hours	hr_fanc2	
	Circuit C Fan #3 Hours	nnnnn	hours	hr_fanc3	
	Circuit C Fan #4 Hours	nnnnn	hours	hr_fanc4	
	Circuit C Fan #5 Hours	nnnnn	hours	hr_fanc5	
	Circuit C Fan #6 Hours	nnnnn	hours	hr_fanc6	
	WATER PUMPS				
	Water Pump #1 Hours	nnnnn	hours	hr_cpum1	
	Water Pump #2 Hours	nnnnn	hours	hr_cpum2	
	Heat Reclaim Pump Hours	nnnnn	hours	hr_hpump	
	FREE COOLING PUMPS				
	Circuit A Pump Hours	nnnnn	hours	hr_fcp_a	
	Circuit B Pump Hours	nnnnn	hours	hr_fcp_b	
	Circuit C Pump Hours	nnnnn	hours	hr_fcp_c	

APPENDIX B — CCN TABLES (cont)

STATUS DISPLAY TABLES (cont)

TABLE	DISPLAY NAME	RANGE	UNITS	POINT NAME	WRITE STATUS
FREECOOL	GENERAL PARAMETER				
	Free Cooling Disable?	Yes/No		FC_SW	
	LWT-OAT Delta	nnn.n	^F	fc_delta	
	Current Cooling Power	nnn	KW	cool_pwr	
	Estimated FreeCool Power	nnn	KW	fc_pwr	
	Next session allowed in	nn	min	fc_next	
	Cooling/FreeCool Timeout	nn	min	fc_tmout	
	Free Cool Conditions OK?	Yes/No		fc_ready	
	Free Cool Request ?	Yes/No		fc_reqst	
	Valve Actuator Heaters ?	On/Off		FC_HTR	
	CIRCUIT A				
	Free Cooling Active	Yes/No		fc_on_a	
	Fan Staging Number	1-6		FAN_ST_A	
	3 Way Valve Position	nnn	%	fc_vlv_a	
	3 Way Valve Status	text*		FC_VLV_A	
	Refrigerant Pump Out	On/Off		fc_pmp_a	
	Pump Inlet Pressure	nnn	PSI	fc_inp_a	
	Pump Outlet Pressure	nnn	PSI	fc_oup_a	
	Pump Differential Pressure	nnn	PSI	fc_dp_a	
	CIRCUIT B				
	Free Cooling Active	Yes/No		fc_on_b	
	Fan Staging Number	1-6		FAN_ST_B	
	3 Way Valve Position	nnn	%	fc_vlv_b	
	3 Way Valve Status	text*		FC_VLV_B	
	Refrigerant Pump Out	On/Off		fc_pmp_b	
	Pump Inlet Pressure	nnn	PSI	fc_inp_b	
	Pump Outlet Pressure	nnn	PSI	fc_oup_b	
	Pump Differential Pressure	nnn	PSI	fc_dp_b	

* Text reflects status of valve "Closed," "Closing," "Opened," "Opening," "Stopped," or "Failed."

APPENDIX B — CCN TABLES (cont)
STATUS DISPLAY TABLES (cont)

TABLE	DISPLAY NAME	RANGE	UNITS	POINT NAME	WRITE STATUS
GENUNIT	GENERAL PARAMETER				
	Control Type	Local CCN Remote		ctr_type	
	Run Status	0 = Off 1 = Running 2 = Stopping 3 = Delay 4 = Tripout 5 = Ready 6 = Override 7 = Defrost 8 = Run Test 9 = Test		STATUS	
	CCN Chiller Start/Stop	Enable/Disable		CHIL_S_S	forcible
	Chiller Occupied?	Yes/No		CHIL_OCC	forcible
	Minutes Left for Start	0-15	min	min_left	
	Heat/Cool Status	0 = Cool, 1 = Heat 2 = Stand-by 3 = Both		HEATCOOL	
	Heat/Cool Select (0=Cool, 1=Heat, 2= Auto)	0 = Cool 1 = Heat 2 = Auto		HC_SEL	forcible
	Heat Reclaim Select	Yes/No		RECL_SEL	forcible
	Free Cooling Disable	Yes/No		FC_DSBLE	
	Alarm State	0 Normal 1 Partial 2 Shutdown		ALM	
	Current Alarm 1	nnnnn		alarm_1	
	Current Alarm 2	nnnnn		alarm_2	
	Current Alarm 3	nnnnn		alarm_3	
	Current Alarm 4	nnnnn		alarm_4	
	Current Alarm 5	nnnnn		alarm_5	
	Percent Total Capacity	nnn	%	CAP_T	
	Active Demand Limit Val	nnn	%	DEM_LIM	forcible
	Lag Capacity Limit Value	nnn	%	LAG_LIM	
	Current Setpoint	±nnn.n	°F	SP	
	Setpoint Occupied	Yes/No		SP_OCC	forcible
	Setpoint Control	Setpt 1 Setpt 2 Ice_sp 4-20mA Auto		sp_ctrl	
	Control Point	±nnn.n	°F	CTRL_PNT	forcible
	Controlled Water Temp	±nnn.n	°F	CTRL_WT	
	External Temperature	±nnn.n	°F	OAT	
	Emergency Stop	Enable/Disable		EMSTOP	forcible
MODES	OPERATING MODES				
	Startup Delay in Effect	Yes/No		Mode_01	
	Second Setpoint in Use	Yes/No		Mode_02	
	Reset in Effect	Yes/No		Mode_03	
	Demand Limit Active	Yes/No		Mode_04	
	Ramp Loading Active	Yes/No		Mode_05	
	Cooler Heater Active	Yes/No		Mode_06	
	Cooler Pumps Rotation	Yes/No		Mode_07	
	Pump Periodic Start	Yes/No		Mode_08	
	Night Low Noise Active	Yes/No		Mode_09	
	System Manager Active	Yes/No		Mode_10	
	Master Slave Active	Yes/No		Mode_11	
	Auto Changeover Active	Yes/No		Mode_12	
	Free Cooling Active	Yes/No		Mode_13	
	Reclaim Active	Yes/No		Mode_14	
	Electric Heat Active	Yes/No		Mode_15	
	Heating Low EWT Lockout	Yes/No		Mode_16	
	Boiler Active	Yes/No		Mode_17	
	Ice Mode in Effect	Yes/No		Mode_18	
	Defrost Active On Cir A	Yes/No		Mode_19	
	Defrost Active On Cir B	Yes/No		Mode_20	
	Low Suction Circuit A	Yes/No		Mode_21	
	Low Suction Circuit B	Yes/No		Mode_22	
	Low Suction Circuit C	Yes/No		Mode_23	
	High DGT Circuit A	Yes/No		Mode_24	
	High DGT Circuit B	Yes/No		Mode_25	
	High DGT Circuit C	Yes/No		Mode_26	
	High Pres Override Cir A	Yes/No		Mode_27	
	High Pres Override Cir B	Yes/No		Mode_28	
	High Pres Override Cir C	Yes/No		Mode_29	
	Low Superheat Circuit A	Yes/No		Mode_30	
	Low Superheat Circuit B	Yes/No		Mode_31	
	Low Superheat Circuit C	Yes/No		Mode_32	

APPENDIX B — CCN TABLES (cont)

STATUS DISPLAY TABLES (cont)

TABLE	DISPLAY NAME	RANGE	UNITS	POINT NAME	WRITE STATUS
RECLAIM	Heat Reclaim Select	Yes/no		RECL_SEL	
	Reclaim Condenser Pump	On/Off		CONDPUMP	
	Reclaim Condenser Flow	On/Off		condflow	
	Reclaim Condenser Heater	On/Off		cond_htr	
	Reclaim Entering Fluid	±nnn.n	°F	HR_EWT	
	Reclaim Leaving Fluid	±nnn.n	°F	HR_LWT	
	Reclaim Fluid Setpoint	±nnn.n	°F	RSP	
	Reclaim Valve Position	±nnn.n	%	hr_v_pos	forcible
	HEAT RECLAIM CIRCUIT A				
	Reclaim Status Circuit A	n		hrstat_a	
	Pumpdown Pressure Cir A	±nnn.n	psi	PD_P_A	
	Sub Condenser Temp Cir A	±nnn.n	°F	hr_subta	
	Pumdown Saturated Tmp A	±nnn.n	°F	hr_sat_a	
	Subcooling Temperature A	±nnn.n	°F	hr_subca	
	Air Cond Entering Valv A	On/Off		hr_ea_a	
	Water Cond Enter Valve A	On/Off		hr_ew_a	
	Air Cond Leaving Valve A	On/Off		hr_la_a	
	Water Cond Leaving Val A	On/Off		hr_lw_a	
	HEAT RECLAIM CIRCUIT B				
	Reclaim Status Circuit B	n		hrstat_b	
	Pumpdown Pressure Cir B	±nnn.n	psi	PD_P_B	
	Sub Condenser Temp Cir B	±nnn.n	°F	hr_subtb	
	Pumdown Saturated Tmp B	±nnn.n	°F	hr_sat_b	
	Subcooling Temperature B	±nnn.n	°F	hr_subcb	
	Air Cond Entering Valv B	On/Off		hr_ea_b	
	Water Cond Enter Valve B	On/Off		hr_ew_b	
	Air Cond Leaving Valve B	On/Off		hr_la_b	
	Water Cond Leaving Val B	On/Off		hr_lw_b	
STATEGEN	UNIT DISCRETE IN				
	On/Off – Remote Switch	Open/Close		ONOFF_SW	
	Remote Heat/Cool Switch	Open/Close		HC_SW	
	Current Control	Off, On Cool, On Heat, On Auto		on_ctrl	
	Remote Reclaim Switch	Open/Close		RECL_SW	
	Free Cooling Disable Sw.	Open/close		FC_SW	
	Remote Setpoint Switch	Open/Close		SETP_SW	
	Limit Switch 1 Status	Open/Close		LIM_SW1	
	Limit Switch 2 Status	Open/Close		LIM_SW2	
	Occupied Override Switch	Open/Close		OCC_OVSW	
	Ice Done Storage Switch	Open/Close		ICE_SW	
	Interlock Status	Open/Close		LOCK_1	
	Pump Run Status	Open/Close		PUMP_DEF	
	Remote Interlock Status	Open/Close		REM_LOCK	
	Electrical Box Safety	Open/Close		ELEC_BOX	
	UNIT DISCRETE OUT				
	Electrical Heat Stage	0-4/Off		EHS_STEP	
	Boiler Command	On/Off		BOILER	
	Water Pump #1 Command	On/Off		CPUMP_1	forcible
	Water Pump #2 Command	On/Off		CPUMP_2	forcible
	Rotate Pumps Now	Yes/No		ROT_PUMP	forcible
	Reclaim Condenser Pump	On/Off		COND_PMP	forcible
	Cooler Heater Command	On/Off		COOLHEAT	
	Shutdown Indicator State	On/Off		SHUTDOWN	
	Alarm Relay Status	On/Off		ALARMOUT	
	Alert Relay Status	On/Off		ALERT	
	Ready or Running Status	On/Off		READY	
	Running Status	On/Off		RUNNING	
	Critical Alarm Status	On/Off		CRITICAL	
	UNIT ANALOG				
	Water Exchanger Entering	±nnn.n	°F	EWT	
	Water Exchanger Leaving	±nnn.n	°F	LWT	
	Optional Space Temp	±nnn.n	°F	SPACETMP	
	CHWS Temperature	±nnn.n	°F	CHWSTEMP	
	Reset /Setpoint 4-20mA In	±nn.n	ma	SP_RESET	
	Limit 4-20mA Signal	±nn.n	ma	LIM_ANAL	
	Chiller Capacity Signal	±nn.n	volts	CAPT_010	

APPENDIX B — CCN TABLES (cont)

STATUS DISPLAY TABLES (cont)

TABLE	DISPLAY NAME	RANGE	UNITS	POINT NAME	WRITE STATUS
STRTHOUR	Machine Operating Hours	nnnnn	hours	HR_MACH	
	Machine Starts Number	nnnnn		st_mach	
	Compressor A1 Hours	nnnnn	hours	HR_CP_A1	
	Compressor A2 Hours	nnnnn	hours	HR_CP_A2	
	Compressor A3 Hours	nnnnn	hours	HR_CP_A3	
	Compressor A4 Hours	nnnnn	hours	HR_CP_A4	
	Compressor A1 Starts	nnnnn		st_cp_a1	
	Compressor A2 Starts	nnnnn		st_cp_a2	
	Compressor A3 Starts	nnnnn		st_cp_a3	
	Compressor A4 Starts	nnnnn		st_cp_a4	
	Compressor B1 Hours	nnnnn	hours	HR_CP_B1	
	Compressor B2 Hours	nnnnn	hours	HR_CP_B2	
	Compressor B3 Hours	nnnnn	hours	HR_CP_B3	
	Compressor B4 Hours	nnnnn	hours	HR_CP_B4	
	Compressor B1 Starts	nnnnn		st_cp_b1	
	Compressor B2 Starts	nnnnn		st_cp_b2	
	Compressor B3 Starts	nnnnn		st_cp_b3	
	Compressor B4 Starts	nnnnn		st_cp_b4	
	Compressor C1 Hours	nnnnn	hours	HR_CP_C1	
	Compressor C2 Hours	nnnnn	hours	HR_CP_C2	
	Compressor C3 Hours	nnnnn	hours	HR_CP_C3	
	Compressor C4 Hours	nnnnn	hours	HR_CP_C4	
	Compressor C1 Starts	nnnnn		st_cp_c1	
	Compressor C2 Starts	nnnnn		st_cp_c2	
	Compressor C4 Starts	nnnnn		st_cp_c3	
	Compressor C4 Starts	nnnnn		st_cp_c4	
	CYCLES				
	Starts Max During 1 Hour	nn		st_cp_mx	
	Starts/hr From Last 24 h	nn		st_cp_av	
	Circuit A Defrost Number	nnnnn		nb_def_a	
	Circuit B Defrost Number	nnnnn		nb_def_b	

CONFIGURATION DISPLAY TABLES

TABLE	DISPLAY NAME	RANGE	DEFAULT	UNITS	POINT NAME
ALARMDEF/ ALARMS01	Alarm Routing Control	0 or 1 for each position	00000000		ALRM_CNT
	Alarm Equipment Priority	0-7	4		EQP_TYP
	Comm Failure Retry Time	1-240	10	min	RETRY_TM
	Realarm Time	1-255	30	min	RE_ALARM
	Alarm System Name	8 chars	PRO_RBRQ		ALRM_NAM
BRODEFS/ BROADCASTS	Activate	0=Unused 1=Broadcast time, date, holiday flag and OAT (as like existing pro_dialog control). 2=For Standalone chiller. Daylight savings time & holiday determination will be done without broadcasting through the bus.	2	—	Ccnbroad
	OAT Broadcast				
	Bus #	0 to 239	0		Oatbusnm
	Element #	0 to 239	0		Oatlocad
	DAYLIGHT SAVINGS SELECT	Disable/Enable	Disable		day_sel
	ENTERING				
	Month	1 to 12	3		Startmon
	Day of week* (1=Monday)	1 to 7	7		Startdow
	Week Number of Month†	1 to 5	5		Startwom
	LEAVING				
	Month	1 to 12	10		Stopmon
	Day of week* (1=Monday)	1 to 7	7		Stopdow
	Week Number of Month†	1 to 5	5		stopwom

*Day of week where daylight savings time will occur in the morning (at 2:00 am). In the default setting, daylight savings time occurs on Sunday (7) morning, 1 hour shall be added when entering and 1 hour subtracted when leaving.

†Date once selected (from 1) shall occur in the week number entered. 1: If day of week selected is 7 (Sunday) time change will occur the first Sunday (week number 1) in the month. 5: If day of week selected is 7 (Sunday) time change will occur the last Sunday of the month (week number 4 or 5).

APPENDIX B — CCN TABLES (cont)

CONFIGURATION DISPLAY TABLES (cont)

TABLE	DISPLAY NAME	RANGE	DEFAULT	UNITS	POINT NAME
!CtrlID / PD5_RBRQ:	Device Name	8 chars	PRO-DIALOG 5 30RB&30RQ CSA-SR-20C460301		
	Description	24 chars			
	Location	24 chars			
	Software Part Number	16 chars			
	Model Number	20 chars			
	Serial Number	12 chars			
	Reference Number	24 chars			

TABLE	DISPLAY NAME	RANGE	DEFAULT	UNITS	POINT NAME
DISPCONF	Metric Display on STDU Language Selection 0=English 1=Espanol 2=Francais 3=Portugues 4=English2	Yes/No 0=English 1=Espanol 2=Francais 3=Portugues 4=English2	No 0		DISPUNIT LANGUAGE
FACTORY	Unit Type	1 (Cooling Only), 2 (not supported)	1	tons	unit_typ
	Unit Capacity* NB Fans on Varifan Cir A† NB Fans on Varifan Cir B† NB Fans on Varifan Cir C† Air Cooled Reclaim Sel Free Cooling Select Electrical Heat Stages Boiler Command Select Power Frequency 60HZ Sel Energy Management Module Hot Gas Bypass Select	56 to 500 0 to 6 0 to 6 0 to 6 Yes/No Yes/No 0 to 4 Yes/No Yes/No Yes/No 0-Hot gas bypass valve (not used) 1=Used for Startup only 2=Close Control 3=High Ambient (if High pressure mode is active, close control shall be active) No=Use ComfortLink™ display as user interface (factory installed) Yes=Use Pro_dialog synopsis as user interface (not supported) 0 to 150 Yes/No Yes/No Not Supported Not Supported Not Supported Not Supported	Unit Dependent 0 0 0 No No 0 No Yes No 0 111 No Unit Dependent 0 0 No No		unitsize varfan_a varfan_b varfan_c recl_opt free_opt ehs_sel boil_sel freq_60H emm_nrcp hgbp_sel
	Pro_dialog Display Selec		No		pd4_disp
	Factory Password High Static Fan Control MCHX Exchanger Select VLT Fan Drive Select VLT Fan Drive RPM Desuperheater Select Dual Speed Fan Select				fac_pass hsta_fan mchx_sel vlt_sel vlt_rpm desuper dual_fan

* Enter unit size. This item allows the controls to determine capacity of each compressor and the total number of fans on each circuit based on a compressor arrangement array (can be viewed in table FACTORY2). It is not necessary to enter compressor capacity and number of fans on each circuit. See the Unit Compressor Configuration table below as a reference.

† Number of fans controlled directly by a variable speed fan actuator using 0 to 10 vdc signal. This will enable the controls to determine the remaining discrete fan staging outputs from the total fans on each circuit. Configure to 1 for low ambient head pressure control.

UNIT COMPRESSOR CAPACITY (%) CONFIGURATION

30RB UNIT SIZE	POINT NAME (FACTORY2 TABLE)											
	cap_a1	cap_a2	cap_a3	cap_a4	cap_b1	cap_b2	cap_b3	cap_b4	cap_c1	cap_c2	cap_c3	cap_c4
060	20	20	0	0	20	0	0	0	0	0	0	0
070	25	25	0	0	20	0	0	0	0	0	0	0
080	20	20	0	0	20	20	0	0	0	0	0	0
090	25	25	0	0	20	20	0	0	0	0	0	0
100	25	25	0	0	25	25	0	0	0	0	0	0
110	25	25	0	0	20	20	20	0	0	0	0	0
120	25	25	0	0	25	25	25	0	0	0	0	0
130	25	25	25	0	20	20	20	0	0	0	0	0
150	25	25	25	0	25	25	25	0	0	0	0	0
160	25	25	25	25	20	20	20	0	0	0	0	0
170	25	25	25	25	25	25	25	0	0	0	0	0
190	25	25	25	25	25	25	25	25	0	0	0	0
210	25	25	25	0	20	20	20	0	25	25	25	0
225	25	25	25	0	25	25	25	0	25	25	25	0
250	25	25	25	0	25	25	25	0	25	25	25	25
275	25	25	25	25	25	25	25	25	25	25	25	0
300	25	25	25	25	25	25	25	25	25	25	25	25

APPENDIX B — CCN TABLES (cont)

CONFIGURATION DISPLAY TABLES (cont)

TABLE	DISPLAY NAME	RANGE	DEFAULT	UNITS	POINT NAME
FACTORY2	Compressor A1 Capacity	0 to 99	0		cap_a1
	Compressor A2 Capacity	0 to 99	0		cap_a2
	Compressor A3 Capacity	0 to 99	0		cap_a3
	Compressor A4 Capacity	0 to 99	0		cap_a4
	Compressor B1 Capacity	0 to 99	0		cap_b1
	Compressor B2 Capacity	0 to 99	0		cap_b2
	Compressor B3 Capacity	0 to 99	0		cap_b3
	Compressor B4 Capacity	0 to 99	0		cap_b4
	Compressor C1 Capacity	0 to 99	0		cap_c1
	Compressor C2 Capacity	0 to 99	0		cap_c2
	Compressor C3 Capacity	0 to 99	0		cap_c3
	Compressor C4 Capacity	0 to 99	0		cap_c4
	Circuit A Total Fans NB	0 to 6	0		nb_fan_a
	Circuit B Total Fans NB	0 to 6	0		nb_fan_b
	Circuit C Total Fans NB	0 to 6	0		nb_fan_c
	EXV A Maximum Steps Numb	0/15000	0=EXV not used		exva_max
	EXV B Maximum Steps Numb	0/15000	0		exvb_max
	EXV C Maximum Steps Numb	0/15000	0		exvc_max

NOTES:

1. Compressor capacity will be automatically be determined if unit size entered in FACTORY1 table matches the values in the unit compressor configuration table.

2. Total number of fans includes fans controlled by a variable speed fan. This value will be automatically populated if unit size entered in FACTORY1 table matches the values in the unit compressor configuration table.

TABLE	DISPLAY NAME	RANGE	DEFAULT	UNITS	POINT NAME
HOLIDAY/ HOLDY01S to HOLDY16S	Holiday Start Month	0-12	0		HOL_MON
	Start Day	0-31	0		HOL_DAY
	Duration (days)	0-99	0		HOL_LEN
MST_SLV	MASTER SLAVE CONTROL				
	Master/Slave Select	0=Disable 1=Master 2=Slave	0		ms_sel
	Master Control Type	1=Local Control 2=Remote Control 3=CCN Control	1		ms_ctrl
	Slave Address	1 to 236	2		slv_addr
	Lag Start Timer	2 to 30	10	min	lstr_tim
	Lead/Lag Balance	Yes/No	No		ll_bal
	Lead/Lag Balance Delta	40 to 400	168	hours	ll_bal_d
	Lag Unit Pump Control	0=Stop if Unit Stops 1=Run if Unit Stops	0		lag_pump
	Lead Pulldown Time	0 to 60	0	min	lead_pul
OCCDEFCS/ OCCPC01S and OCCPC02S	Timed Override Hours	0-4	0		OVR_EXT
	Period 1 DOW (MTWTFSSH)	0/1	11111111		DOW1
	Occupied From	00:00-24:00	00:00		OCCTOD1
	Occupied To	00:00-24:00	24:00		UNOCTOD1
	Period 2 DOW (MTWTFSSH)	0/1	11111111		DOW2
	Occupied From	00:00-24:00	00:00		OCCTOD2
	Occupied To	00:00-24:00	00:00		UNOCTOD2
	Period 3 DOW (MTWTFSSH)	0/1	00000000		DOW3
	Occupied From	00:00-24:00	00:00		OCCTOD3
	Occupied To	00:00-24:00	00:00		UNOCTOD3
	Period 4 DOW (MTWTFSSH)	0/1	00000000		DOW4
	Occupied From	00:00-24:00	00:00		OCCTOD4
	Occupied To	00:00-24:00	00:00		UNOCTOD4
	Period 5 DOW (MTWTFSSH)	0/1	00000000		DOW5
	Occupied From	00:00-24:00	00:00		OCCTOD5
	Occupied To	00:00-24:00	00:00		UNOCTOD5
	Period 6 DOW (MTWTFSSH)	0/1	00000000		DOW6
	Occupied From	00:00-24:00	00:00		OCCTOD6
	Occupied To	00:00-24:00	00:00		UNOCTOD6
	Period 7 DOW (MTWTFSSH)	0/1	00000000		DOW7
	Occupied From	00:00-24:00	00:00		OCCTOD7
	Occupied To	00:00-24:00	00:00		UNOCTOD7
	Period 8 DOW (MTWTFSSH)	0/1	00000000		DOW8
	Occupied From	00:00-24:00	00:00		OCCTOD8
	Occupied To	00:00-24:00	00:00		UNOCTOD8

APPENDIX B — CCN TABLES (cont)

CONFIGURATION DISPLAY TABLES (cont)

TABLE	DISPLAY NAME	RANGE	DEFAULT	UNITS	POINT NAME
USER	Circuit Loading Sequence 0=Auto, 1=A Lead 2=B Lead, 3=C Lead	0-3 0=Auto, 1=A Lead 2=B Lead, 3=C Lead	0		lead_cir
	Staged Loading Sequence	No/Yes	No		seq_typ
	Ramp Loading Select	No/Yes	No		ramp_sel
	Unit Off to On Delay	1-15	1	Min	off_on_d
	Cooler Pumps Sequence	0-4	0		pump_seq
	0=No Pump	0=No Pump			
	1=One Pump Only	1=One Pump Only			
	2=Two Pumps Auto	2=Two Pumps Auto			
	3=Pump#1 Manual	3=Pump#1 Manual			
	4=Pump#2 Manual	4=Pump#2 Manual			
	Pump Auto Rotation Delay	24-3000	48	hours	pump_del
	Pump Sticking Protection	No/Yes	No		pump_per
	Stop Pump During Standby	No/Yes	No		pump_sby
	Flow Checked if Pump Off	No/Yes	Yes		pump_loc
	Auto Changeover Select	No/Yes	No		auto_sel
	Cooling Reset Select	0-4	0		cr_sel
	Heating Reset Select	0-4	0		hr_sel
	1 =OAT, 0=None	1 =OAT, 0=None			
	2=Delta T, 3=4-20mA Control	2=Delta T, 3=4-20mA Control			
	4=Space Temp	4=Space Temp			
	Demand Limit Type Select	0-2	0		lim_sel
	0=None	0=None			
	1=Switch Control	1=Switch Control			
	2=4-20mA Control	2=4-20mA Control			
	mA For 100% Demand Limit	0-20	0	ma	lim_mx
	mA For 0% Demand Limit	0-20	0	ma	lim_ze
	Heating OAT Threshold	-4-32	5	°F	heat_th
	Boiler OAT Threshold	5-59	14	°F	boil_th
	Free Cooling	-4-37.4	32	°F	free_oat
	OAT Threshold	-4-37.4	32.0	°F	free_th
	Full Load Timeout	5-60	15	min	fc_tmout
	Pre_Cooling Selected	No/Yes	No		pre_cool
	HSM Both Commande Select	No/Yes	No		both_sel
	Elec Stage OAT Threshold	23-70	41	°F	ehs_th
	1 Elec Stage for backup	No/Yes	No		ehs_back
	Electrical Pulldown Time	0-60	0	min	ehs_pull
	Quick EHS for Defrost	No/Yes	No		ehs_defr
	Night control				
	Start Hour	00:00-24:00	00:00		nh_start
	End Hour	00:00-24:00	00:00		nh_end
	Capacity Limit	0-100	100	%	nh_cnfg
	Ice Mode Enable	No/Yes	No		ice_cnfg
	Menu Description Select	No/Yes	Yes		menu_des
	Pass For All User Config	No/Yes	No		all_pass

NOTES:

- Flow checked if pump off needed when a command is sent to the primary pump to prevent cooler from freezing in winter conditions. Command will set the cooler flow switch to closed while the controls stop the cooler pump. The controls may then generate an alarm. If this decision is active, the cooler flow switch is not checked when the cooler pump is stopped.
- If cooling reset select set point has been selected the set point based on 4 to 20 mA input signal through *ComfortLink™*

- controls, then a 4 to 20 mA reset function shall be ignored. Configuration 3 (4-20mA Control) and 4 (Space Temperature) shall require an Energy Management Module.
- Configuration 2 (4-20mA Control) shall require an Energy Management Module. Configuration 1 Switch Demand limit provides 3 step demand limit if an Energy Management Module is present. Otherwise, only one step is allowed.

APPENDIX B — CCN TABLES (cont)

SETPOINT DISPLAY TABLES

TABLE	DISPLAY NAME	RANGE	DEFAULT	UNITS	POINT NAME
SETPOINT	COOLING				
	Cooling Setpoint 1	-20.0-78.8	44.0	°F	csp1
	Cooling Setpoint 2	-20.0-78.8	44.0	°F	csp2
	Cooling Ice Setpoint	-20.0-32.0	44.0	°F	ice_sp
	OAT No Reset Value	14-125	14.0	°F	oatcr_no
	OAT Full Reset Value	14-125	14.0	°F	oatcr_fu
	Delta T No Reset Value	0-25	0.0	^F	dt_cr_no
	Delta T Full Reset Value	0-25	0.0	^F	dt_cr_fu
	Current No Reset Value	0-20	0.0	ma	v_cr_no
	Current Full Reset Value	0-20	0.0	ma	v_cr_fu
	Space T No Reset Value	14-125	14.0	°F	spacr_no
	Space T Full Reset Value	14-125	14.0	°F	spacr_fu
	Cooling Reset Deg. Value	-30-30	0.0	^F	cr_deg
	Cooling Ramp Loading	0.2-2.0	1.0	^F	cramp_sp
	HEATING				
	Heating Setpoint 1	68.0-122.0	100.0	°F	hsp1
	Heating Setpoint 2	68.0-122.0	100.0	°F	hsp2
	OAT No Reset Value	14-125	14.0	°F	oathr_no
	OAT Full Reset Value	14-125	14.0	°F	oathr_fu
	Delta T No Reset Value	0-25	0.0	^F	dt_hr_no
	Delta T Full Reset Value	0-25	0.0	^F	dt_hr_fu
	Current No Reset Value	0-20	0.0	ma	v_hr_no
	Current Full Reset Value	0-20	0.0	ma	v_hr_fu
	Heating Reset Deg. Value	-30-30	0.0	^F	hr_deg
	Heating Ramp Loading	0.2-2.0	1.0	^F	hramp_sp
	AUTO CHANGEOVER				
	Cool Changeover Setpt	39-122	75.0	°F	cauto_sp
	Heat Changeover Setpt	32-115	64.0	°F	hauto_sp
	MISCELLANEOUS				
	Switch Limit Setpoint 1	0-100	100	%	lim_sp1
	Switch Limit Setpoint 2	0-100	100	%	lim_sp2
	Switch Limit Setpoint 3	0-100	100	%	lim_sp3
	Reclaim Setpoint	95.0-122.0	122.0	°F	rsp
	Reclaim Deadband	5-27	9.0	^F	hr_deadb
	Head Setpoint	40.0-122.0	95.0	°F	head_stp
	Fan Max Speed	0-100	100	%	fan_smax

MAINTENANCE DISPLAY TABLES

TABLE	DISPLAY NAME	RANGE	UNITS	POINT NAME	WRITE STATUS
DEFROSTM	CIR A DEFROST CONTROL				
	Exchanger Frost Factor	0-100	%	frost_a	
	Next Sequence Allowed in Defrost Active?	nnn	min	def_se_a	
	Defrost Temperature	True/False		mode[19]	
	Defrost Duration	±nnn.n	°F	DEFRT_A	
	Fan Sequence Started	nnn	min	defr_dua	
	Override State	n		def_fa_a	
	Mean SST Calculation	nn		over_d_a	
	Delta: OAT - Mean SST	±nnn.n	°F	sst_dm_a	
	Reference Delta	±nnn.n	^F	delt_a	
	Delta - Reference Delta	±nnn.n	^F	delt_r_a	
	Frost Integrator Gain	±nnn.n	°F	delt_v_a	
	Defrost Fan Start Cal A	n.n		fr_int_a	
	Defrost Fan Offset Cal A	0.00	psi	def_ca_a	
		0.00	psi	def_of_a	
	CIR B DEFROST CONTROL				
	Exchanger Frost Factor	0-100	%	frost_b	
	Next Sequence Allowed in Defrost Active?	nnn	min	def_se_b	
	Defrost Temperature	True/False		mode[20]	
	Defrost Duration	±nnn.n	°F	DEFRT_B	
	Fan Sequence Started?	nnn	min	defr_dub	
	Override State	n		def_fa_b	
	Mean SST calculation	nn		over_d_b	
	Delta: OAT - Mean SST	±nnn.n	°F	sst_dm_b	
	Reference Delta	±nnn.n	^F	delt_b	
	Delta - Reference Delta	±nnn.n	^F	delt_r_b	
	Frost Integrator Gain	±nnn.n	^F	delt_v_b	
	Defrost Fan Start Cal B	n.n		fr_int_b	
	Defrost Fan Offset Cal B	0.00	psi	def_ca_b	
		0.00	psi	def_of_b	

NOTES: Tables for display only. Forcing shall not be supported on this maintenance screen.

APPENDIX B — CCN TABLES (cont)
MAINTENANCE DISPLAY TABLES (cont)

TABLE	DISPLAY NAME	RANGE	UNITS	POINT NAME	WRITE STATUS
FANCTRL	Cir A SCT Control Point		°F	sct_sp_a	
	Cir A SCT Candidate		°F	sct_fu_a	
	Cir A Fan Drive Power		kW	drva_pwr	
	Cir A Fan Drive Version			drva_ver	
	Cir B SCT Control Point		°F	sct_sp_b	
	Cir B SCT Candidate		°F	sct_fu_b	
	Cir B Fan Drive Power		kW	drvb_pwr	
	Cir B Fan Drive Version			drvb_ver	
	Cir C SCT Control Point		°F	sct_sp_c	
	Cir C SCT Candidate		°F	sct_fu_c	
	Cir C Fan Drive Power		kW	drvc_pwr	
	Cir C Fan Drive Version			drvc_ver	
LAST_POR	Power On 1: day-mon-year	nnnnnn		date_on1	
	Power On 1: hour-minute	nnnn		time_on1	
	PowerDown 1:day-mon-year	nnnnnn		date_of1	
	PowerDown 1:hour-minute	nnnn		time_of1	
	Power On 2: day-mon-year	nnnnnn		date_on2	
	Power On 2: hour-minute	nnnn		time_on2	
	PowerDown 2:day-mon-year	nnnnnn		date_of2	
	PowerDown 2:hour-minute	nnnn		time_of2	
	Power On 3: day-mon-year	nnnnnn		date_on3	
	Power On 3: hour-minute	nnnn		time_on3	
	PowerDown 3:day-mon-year	nnnnnn		date_of3	
	PowerDown 3:hour-minute	nnnn		time_of3	
	Power On 4: day-mon-year	nnnnnn		date_on4	
	Power On 4: hour-minute	nnnn		time_on4	
	PowerDown 4:day-mon-year	nnnnnn		date_of4	
	PowerDown 4:hour-minute	nnnn		time_of4	
	Power On 5: day-mon-year	nnnnnn		date_on5	
	Power On 5: hour-minute	nnnn		time_on5	
	PowerDown 5:day-mon-year	nnnnnn		date_of5	
	PowerDown 5:hour-minute	nnnn		time_of5	
LOADFACT	Average Ctrl Water Temp	±nnn.n	°F	ctrl_avg	
	Differential Water Temp	±nnn.n	°F	diff_wt	
	Water Delta T	±nnn.n	^F	delta_t	
	Control Point	±nnn.n	°F	CTRL_PNT	
	Reset Amount	±nnn.n	^F	reset	
	Controlled Temp Error	±nnn.n	^F	tp_error	
	Actual Capacity	nnn	%	cap_t	
	Actual Capacity Limit	nnn	%	cap_lim	
	Current Z Multiplier Val	±n.n		zm	
	Load/Unload Factor	±nnn.n	%	smz	
	Active Stage Number	nn		cur_stag	
	Active Capacity Override	nn		over_cap	
	EXV Position Limit Cir A	nnn.n	%	exvlim_a	
	SH Setpoint Circuit A	nn.n	^F	sh_sp_a	
	Cooler Exchange DT Cir A	nn.n	^F	pinch_a	
	Cooler Pinch Ctl Point A	nn.n	^F	pinch_spa	
	EXV Override Circuit A	nn		ov_exv_a	
	EXV Position Limit Cir B	nnn.n	%	exvlim_b	
	SH Setpoint Circuit B	nn.n	^F	sh_sp_b	
	Cooler Exchange DT Cir B	nn.n	^F	pinch_b	
	Cooler Pinch Ctl Point B	nn.n	^F	pinch_spb	
	EXV Override Circuit B	nn		ov_exv_b	
	EXV Position Limit Cir C	nnn.n	%	exvlim_c	
	SH Setpoint Circuit C	nn.n	^F	sh_sp_c	
	Cooler Exchange DT Cir C	nn.n	^F	pinch_c	
	Cooler Pinch Ctl Point C	nn.n	^F	pinch_spc	
	EXV Override Circuit C	nn		ov_exv_c	
	EHS Ctrl Override	nn		over_ehs	
	Requested Electric Stage	nn		eh_stage	
	Electrical Pulldown?	True/False		Ehspulld	
	Required Cooling Power			req_pow	
	Free Cool Override Cir A			ov_fc_a	
	Free Cool Override Cir B			ov_fc_b	

APPENDIX B — CCN TABLES (cont)

MAINTENANCE DISPLAY TABLES (cont)

TABLE	DISPLAY NAME	RANGE	UNITS	POINT NAME	WRITE STATUS
MSTSLAVE	MASTER/SLAVE CONTROL				
	Unit is Master or Slave	Disable/Master/Slave		mstslv	
	Master Control Type*	Local/Remote/CCN		ms_ctrl	
	Master/Slave Ctrl Active	True/False		ms_activ	
	Lead Unit is the	Master/Slave		lead_sel	
	Slave Chiller State†	0/1/2/3/4/5		slv_stat	
	Slave Chiller Total Cap	0-100	%	slv_capt	
	Lag Start Delay**	1-30	min	l_strt_d	
	Lead/Lag Hours Delta*	±nnnnn	hours	ll_hr_d	
	Lead/Lag Changeover?***	Yes/No		ll_chang	
	Lead Pulldown?	Yes/No		ll_pull	
	Master/Slave Error	nn		ms_error	
	Max Available Capacity?††	True/False		cap_max	

*Always CCN for the slave chiller.

†Slave chiller chillstat value.

**This decision is consistent for Master chiller only. It shall be set by default to 0 for the slave chiller.

††This item is true when chiller has loaded its total available capacity tonnage.

TABLE	DISPLAY NAME	RANGE	UNITS	POINT NAME	WRITE STATUS
OCCDEFCM/ OCC1PO1S OCC2PO2S	Current Mode (1=occup.)	0/1		MODE	
	Current Occp Period #	1 to 8		PER_NO	
	Timed-Override in Effect	Yes/No		OVERLAST	
	Timed-Override Duration	0-4	hours	OVR_HRS	
	Current Occupied Time	00:00-23:59		STRTTIME	
	Current Unoccupied Time	00:00-23:59		ENDTIME	
	Next Occupied Day	Mon-Sun		NXTOCDAY	
	Next Occupied Time	00:00-23:59		NXTOCTIM	
	Next Unoccupied Day	Mon-Sun		NXTUNDAY	
	Next Unoccupied Time	00:00-23:59		NXTUNTIM	
	Prev Unoccupied Day	Mon-Sun		PRVUNDAY	
	Prev Unoccupied Time	00:00-23:59		PRVUNTIM	

TABLE	DISPLAY NAME	RANGE	UNITS	POINT NAME	WRITE STATUS
PR_LIMIT	Discharge A Temp Average	±nnn.n	°F	sdt_m_a	
	Discharge A Temp Rate	±nnn.n	^F	sdt_mr_a	
	Discharge A Gas Limit	±nnn.n	°F	sdtlim_a	
	Suction A Temp Average	±nnn.n	°F	sst_m_a	
	Discharge A Tp Average 2	±nnn.n	^F	sdt_m2_a	
	Discharge A Temp Limit2	±nnn.n	^F	sdtlim2a	
	Discharge B Temp Average	±nnn.n	°F	sdt_m_b	
	Discharge B Temp Rate	±nnn.n	^F	sdt_mr_b	
	Discharge B Gas Limit	±nnn.n	°F	sdtlim_b	
	Suction B Temp Average	±nnn.n	°F	sst_m_b	
	Discharge C Temp Average	±nnn.n	°F	sdt_m_c	
	Discharge C Temp Rate	±nnn.n	^F	sdt_mr_c	
	Discharge C Gas Limit	±nnn.n	°F	sdtlim_c	
	Suction C Temp Average	±nnn.n	°F	sst_m_c	

NOTE: Table for display only. Used for Cooling and Heat Pump Compressor Envelope.

TABLE	DISPLAY NAME	RANGE	UNITS	POINT NAME	WRITE STATUS
SERMAINT	Reset Maintenance Alert	nn		S_RESET	forcible
	1 to 6: reset individually				
	7: reset all				
	OPERATION WARNINGS				
	1 — Refrigerant Charge	Normal/Low/Disable		charge_m	
	2 — Water Loop Size	Normal/Low/Disable		wloop_m	
	GENERAL SERVICING DELAYS				
	3 — Pump 1 (days)	0-1000/Alert/Disable		cpump1_m	
	4 — Pump 2 (days)	0-1000/Alert/Disable		cpump2_m	
	5 — Reclaim Pump (days)	0-1000/Alert/Disable		hpump_m	
	6 — Water Filter (days)	0-1000/Alert/Disable		wfilte_m	

APPENDIX B — CCN TABLES (cont)

SERVICE DISPLAY TABLES

TABLE	DISPLAY NAME	RANGE	DEFAULT	UNITS	POINT NAME	WRITE STATUS
CP_UNABL	Compressor A1 Disable	No/Yes	No		un_cp_a1	
	Compressor A2 Disable	No/Yes	No		un_cp_a2	
	Compressor A3 Disable	No/Yes	No		un_cp_a3	
	Compressor A4 Disable	No/Yes	No		un_cp_a4	
	Compressor B1 Disable	No/Yes	No		un_cp_b1	
	Compressor B2 Disable	No/Yes	No		un_cp_b2	
	Compressor B3 Disable	No/Yes	No		un_cp_b3	
	Compressor B4 Disable	No/Yes	No		un_cp_b4	
	Compressor C1 Disable	No/Yes	No		un_cp_c1	
	Compressor C2 Disable	No/Yes	No		un_cp_c2	
	Compressor C3 Disable	No/Yes	No		un_cp_c3	
	Compressor C4 Disable	No/Yes	No		un_cp_c4	

NOTES:

1. Table used to disable compressors for maintenance purposes. The capacity control will consider that these compressors (once set to YES) are failed manually (no alarm will appear).

2. All data will be re-initialized to “NO” at Power on reset on units using pro_dialog display. For *ComfortLink™* display, data shall be saved.

TABLE	DISPLAY NAME	RANGE	DEFAULT	UNITS	POINT NAME	WRITE STATUS
MAINTCFG	MAINTENANCE CONFIG					
	Servicing Alert	Enable/Disable	Disable		s_alert	
	Refrigerant Charge Ctrl	Enable/Disable	Disable		charge_c	
	Water Loop Control	Enable/Disable	Disable		wloop_c	
	CPump 1 Ctl Delay (days)	0-1000	0		cpump1_c	
	CPump 2 Ctl Delay (days)	0-1000	0		cpump2_c	
	HPump Ctrl Delay (days)	0-1000	0		hpump_c	
	Water Filter Ctrl (days)	0-1000	0		wfilt_c	

TABLE	DISPLAY NAME	RANGE	DEFAULT	UNITS	POINT NAME	WRITE STATUS
SERVICE1	Cooler Fluid Type	1-3	1		flui_typ	
	Entering Fluid Control	Yes/No	No		ewt_opt	
	Prop PID Gain Varifan	-20.0-20.0	2.0		hd_pg	
	Int PID Gain Varifan	-5.0-5.0	0.2		hd_ig	
	Deri PID Gain Varifan	-20.0-20.0	0.4		hd_dg	
	EXV A Superheat Setpoint	2.5-54.0	9.0	^F	sh_sp_a	
	EXV B Superheat Setpoint	2.5-54.0	9.0	^F	sh_sp_b	
	EXV C Superheat Setpoint	2.5-54.0	9.0	^F	sh_sp_c	
	EXV MOP Setpoint	30.8-50.0	50.0	°F	mop_sp	
	High Pressure Threshold	500-640	609	psi	hp_th	
	Cooler Heater Delta Spt	1-6	2	^F	heatersp	
	Brine Freeze Setpoint	-20-34	34	°F	lowestsp	
	Minimum LWT Setpoint		38	°F	mini_lwt	
	Auto Start When SM Lost	Enable/Disable	Disable		auto_sm	
	Auto Z Multiplier Setpt	4-10	6		zm_spt	
	Maximum Z Multiplier	1.0-6.0	6.0		hc_zm	
	Recl Valve Min Position	0-50	20	%	min_3w	
	Recl Valve Max Position	20-100	100	%	max_3w	
	User Password	0-150	11	N/A	use_pass	
	Service Password	0-150	88	N/A	ser_pass	
	SPM Board Configuration	0 or 1 for each digit	00001010		spm_conf	
	Maximum Ducted Fan Speed	0-100	100	%	fan_max	

NOTE: This table shall be downloadable at any time. However, modified value shall not be used by tasks until the unit is in OFF state. This shall not apply to the Varifan gains that shall be modified at any time and used immediately by the head pressure control tasks even if the unit is in operation.

APPENDIX B — CCN TABLES (cont)

SERVICE DISPLAY TABLES (cont)

TABLE	DISPLAY NAME	RANGE	UNITS	POINT NAME	WRITE STATUS
UPDHRFAN	TABLE TO BE USED FOR RUN TIMES & START UPDATE IN CASE OF CONTROL RETROFIT				
	FAN Operating Hours				
	Circuit A Fan #1 Hours	nnnnn	hours	hr_fana1	
	Circuit A Fan #2 Hours	nnnnn	hours	hr_fana2	
	Circuit A Fan #3 Hours	nnnnn	hours	hr_fana3	
	Circuit A Fan #4 Hours	nnnnn	hours	hr_fana4	
	Circuit A Fan #5 Hours	nnnnn	hours	hr_fana5	
	Circuit A Fan #6 Hours	nnnnn	hours	hr_fana6	
	Circuit B Fan #1 Hours	nnnnn	hours	hr_fanb1	
	Circuit B Fan #2 Hours	nnnnn	hours	hr_fanb2	
	Circuit B Fan #3 Hours	nnnnn	hours	hr_fanb3	
	Circuit B Fan #4 Hours	nnnnn	hours	hr_fanb4	
	Circuit B Fan #5 Hours	nnnnn	hours	hr_fanb5	
	Circuit B Fan #6 Hours	nnnnn	hours	hr_fanb6	
	Circuit C Fan #1 Hours	nnnnn	hours	hr_fanc1	
	Circuit C Fan #2 Hours	nnnnn	hours	hr_fanc2	
	Circuit C Fan #3 Hours	nnnnn	hours	hr_fanc3	
	Circuit C Fan #4 Hours	nnnnn	hours	hr_fanc4	
	Circuit C Fan #5 Hours	nnnnn	hours	hr_fanc5	
	Circuit C Fan #6 Hours	nnnnn	hours	hr_fanc6	
	WATER PUMP				
	WATER PUMP #1 Hours	nnnnn	hours	hr_cpum1	
	WATER PUMP #2 Hours	nnnnn	hours	hr_cpum2	
	Heat Reclaim Pump Hours	nnnnn	hours	hr_hpump	
	FREE COOLING PUMPS				
	Free Cool A Pump Hours	nnnnn	hours	hr_fcp_a	
	Free Cool B Pump Hours	nnnnn	hours	hr_fcp_b	
	Free Cool C Pump Hours	nnnnn	hours	hr_fcp_c	

NOTE: This table shall be used for purposes of transplanting the devices on time in the event of a module hardware failure or software upgrade via downloading. It shall be usable only if all items are still null. Afterwards, its access shall be denied.

TABLE	DISPLAY NAME	RANGE	UNITS	POINT NAME	WRITE STATUS
UPDTHOUR	TABLE TO BE USED FOR RUN TIMES UPDATE IN CASE OF CONTROL RETROFIT				
	Machine Operating Hours	nnnnn	hours	hr_mach	
	Machine Starts	nnnnn		st_mach	
	Compressor A1 Hours	nnnnn	hours	hr_cp_a1	
	Compressor A2 Hours	nnnnn	hours	hr_cp_a2	
	Compressor A3 Hours	nnnnn	hours	hr_cp_a3	
	Compressor A4 Hours	nnnnn	hours	hr_cp_a4	
	Compressor A1 Starts	nnnnn		st_cp_a1	
	Compressor A2 Starts	nnnnn		st_cp_a2	
	Compressor A3 Starts	nnnnn		st_cp_a3	
	Compressor A4 Starts	nnnnn		st_cp_a4	
	Compressor B1 Hours	nnnnn	hours	hr_cp_b1	
	Compressor B2 Hours	nnnnn	hours	hr_cp_b2	
	Compressor B3 Hours	nnnnn	hours	hr_cp_b3	
	Compressor B4 Hours	nnnnn	hours	hr_cp_b4	
	Compressor B1 Starts	nnnnn		st_cp_b1	
	Compressor B2 Starts	nnnnn		st_cp_b2	
	Compressor B3 Starts	nnnnn		st_cp_b3	
	Compressor B4 Starts	nnnnn		st_cp_b4	
	Compressor C1 Hours	nnnnn	hours	hr_cp_c1	
	Compressor C2 Hours	nnnnn	hours	hr_cp_c2	
	Compressor C3 Hours	nnnnn	hours	hr_cp_c3	
	Compressor C4 Hours	nnnnn	hours	hr_cp_c4	
	Compressor C1 Starts	nnnnn		st_cp_c1	
	Compressor C2 Starts	nnnnn		st_cp_c2	
	Compressor C3 Starts	nnnnn		st_cp_c3	
	Compressor C4 Starts	nnnnn		st_cp_c4	
	Circuit A Defrost Number	nnnnn		nb_def_a	
	Circuit B Defrost Number	nnnnn		nb_def_b	

NOTE: This table shall be used for purposes of transplanting the devices on time in the event of a module hardware failure or software upgrade via downloading. It shall be usable only if all items are still null. Afterwards, its access shall be denied.