SYSTEM RACK C DISCHARGE AIR TEMPERATURE AND DEFROST PARAMETERS

Updated: 11/24/2020

					DISCHARGE AIR TEMP SETTING FOR CASES/ RETURN AIR TEMP SETTING FOR WALK-IN BOXES				DEFROST						DEFROST SCHEDULE					
CIRCUIT #	APPLICATION	MODEL NUMBER	MFR	EQUIP. NUMBER	MANUFACTURER'S TARGET (°F)	OWNER'S OPERATING SETPOINT (°F)	DUAL TEMP TARGET (°F)	STARTING SUPERHEAT SETPOINT (°F)	DEFROST TYPE	FREQUENCY PER DAY	PUMP OUT TIME (MIN)	MAX DURATION (MIN)	TERMINATION TEMP (°F)	DRIP TIME (MIN)	Defrost 1	Defrost 2	Defrost 3	Defrost 4	Defrost 5	Defrost 6
C9	Service Deli	ON5DMX-NRG	HILL PHOENIX INC	RD4043.042 - 12/17/2018	31	31	--	6 – 8	OT	6	0	40	47	0						
C10a	Service Deli	SMBT	HUSSMANN	RD2006.642 - 1/15/2016	24	0	--	4 – 7	OT	0	0	0	0	0	2:00					
C10b	M.D. Deli	ON5DMX-NRG	HILL PHOENIX INC	RD4043.042 - 12/17/2018	31	31	--	6 – 8	OT	6	0	40	47	0	5:34	9:34	13:34	17:34	21:34	1:34
C16	Floral	ID5NM	HUSSMANN	RD4041.902 - 11/26/2019	33	--	--	5-6	OT	6	0	20	48	0	12:56	16:56	20:56	0:56	4:56	8:56

1.) Information included in this schedule is taken from manufacturer's submittals.
2.) Contractor to verify information against latest submittals available at time cases/coils are delivered.
3.) Parameters above are to be used in programming new/replaced cases/coils only.

SYSTEM RACK D DISCHARGE AIR TEMPERATURE AND DEFROST PARAMETERS

Updated: 11/10/2020

					DISCHARGE AIR TEMP SETTING FOR CASES/ RETURN AIR TEMP SETTING FOR WALK-IN BOXES				DEFROST						DEFROST SCHEDULE							
CIRCUIT #	APPLICATION	MODEL NUMBER	MFR	EQUIP. NUMBER	MANUFACTURER'S TARGET (°F)	OWNER'S OPERATING SETPOINT (°F)	DUAL TEMP TARGET (°F)	STARTING SUPERHEAT SETPOINT (°F)	DEFROST TYPE	FREQUENCY PER DAY	PUMP OUT TIME (MIN)	MAX DURATION (MIN)	TERMINATION TEMP (°F)	DRIP TIME (MIN)	Defrost 1	Defrost 2	Defrost 3	Defrost 4	Defrost 5	Defrost 6	Defrost 7	Defrost 8
D13	M.D. Beer	DX6LN	HEATCRAFT REFRIGERATION	RD4018.442 - 6/27/2019	32	32	--	6 – 8	OT	8	0	25	47	0	6:00	9:00	12:00	15:00	18:00	21:00	0:00	3:00

1.) Information included in this schedule is taken from manufacturer's submittals.
2.) Contractor to verify information against latest submittals available at time cases/coils are delivered.
3.) Parameters above are to be used in programming new/replaced cases/coils only.

SYSTEM RCU1 DISCHARGE AIR TEMPERATURE AND DEFROST PARAMETERS

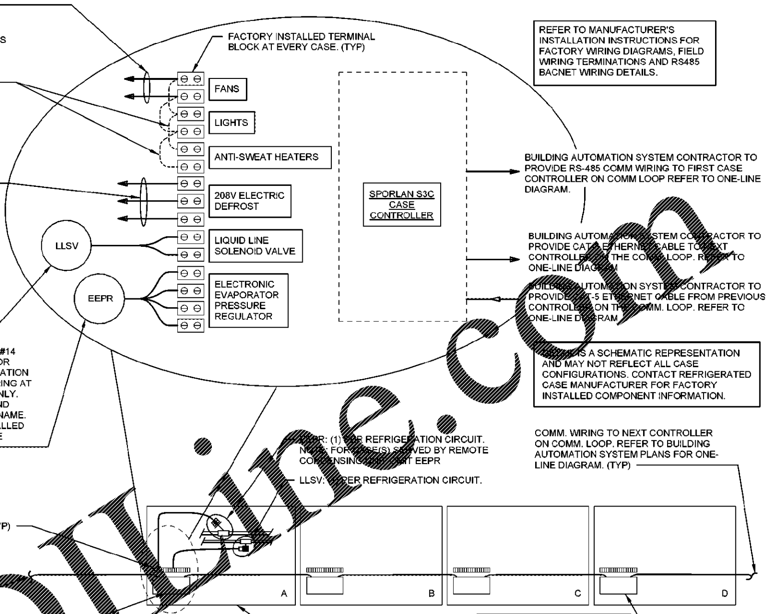
					DISCHARGE AIR TEMP SETTING FOR CASES/ RETURN AIR TEMP SETTING FOR WALK-IN BOXES				DEFROST					
CIRCUIT #	APPLICATION	MODEL NUMBER	MFR	EQUIP. NUMBER	MANUFACTURER'S TARGET (°F)	OWNER'S OPERATING SETPOINT (°F)	DUAL TEMP TARGET (°F)	STARTING SUPERHEAT SETPOINT (°F)	DEFROST TYPE	FREQUENCY PER DAY	PUMP OUT TIME (MIN)	MAX DURATION (MIN)	TERMINATION TEMP (°F)	DRIP TIME (MIN)
RCU1	Grab n Go	QC-R-35-IC	HILL PHOENIX INC	RD1069.352 - 6/21/2019	32	32	--	6 – 8	OT	4	0	30	42	0

1.) Information included in this schedule is taken from manufacturer's submittals.
2.) Contractor to verify information against latest submittals available at time cases/coils are delivered.
3.) Parameters above are to be used in programming new/replaced cases/coils only.
4.) RCU-1 coil temperature is being monitored via Rack C's controller.

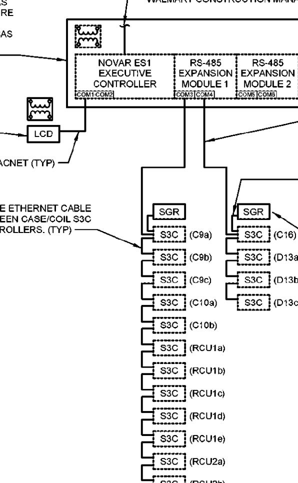
SYSTEM RCU2 DISCHARGE AIR TEMPERATURE AND DEFROST PARAMETERS

					DISCHARGE AIR TEMP SETTING FOR CASES/ RETURN AIR TEMP SETTING FOR WALK-IN BOXES				DEFROST					
CIRCUIT #	APPLICATION	MODEL NUMBER	MFR	EQUIP. NUMBER	MANUFACTURER'S TARGET (°F)	OWNER'S OPERATING SETPOINT (°F)	DUAL TEMP TARGET (°F)	STARTING SUPERHEAT SETPOINT (°F)	DEFROST TYPE	FREQUENCY PER DAY	PUMP OUT TIME (MIN)	MAX DURATION (MIN)	TERMINATION TEMP (°F)	DRIP TIME (MIN)
RCU2	Grab n Go	QC-R-35-IC	HILL PHOENIX INC	RD1069.352 - 6/21/2019	32	32	--	6 – 8	OT	4	0	30	42	0

1.) Information included in this schedule is taken from manufacturer's submittals.
2.) Contractor to verify information against latest submittals available at time cases/coils are delivered.
3.) Parameters above are to be used in programming new/replaced cases/coils only.
4.) RCU-2 coil temperature is being monitored via Rack C's controller.



4 CASE CONNECTION SCHEMATIC (SPORLAN)
NTS



WIRE LEGEND	NOVAR
WIR-1010 (TAN CABLE 18-2, 20-2 TWISTED PAIR)	
WIR-2020 (BLUE CABLE 22-2 TWISTED PAIR)	

NOTES:
1. ALL CABLE WIR-2020 UNLESS NOTED OTHERWISE.
2. ALL CABLE FURNISHED AND INSTALLED BY BAS CONTRACTOR

ES-1	
	COMMUNICATION PORT
COM1	LCD (IF APPLICABLE) / BACNET LOOP
COM2	SPECTRUM (NOVARnet) / BACNET LOOP

COM MODULE 1	
	COMMUNICATION PORT
COM3	SPECTRUM (NOVARnet) / BACNET LOOP
COM4	SPECTRUM (NOVARnet) / BACNET LOOP

COM MODULE 2	
	COMMUNICATION PORT
COM5	SPECTRUM (NOVARnet) / BACNET LOOP
COM6	SPECTRUM (NOVARnet) / BACNET LOOP

IF WIRING LENGTH BETWEEN DEVICES EXCEEDS 328' A SPORLAN APPROVED NETWORK SWITCH WILL BE REQUIRED TO INCREASE MAXIMUM WIRING LENGTH TO 650'. INSTALL ONE ADDITIONAL SWITCH FOR EACH SUBSEQUENT INCREMENT OF 328' OF RUN BETWEEN DEVICES.

REFRIGERATION BAS ONE-LINE REFLECTS THE INTENDED DESIGN BASED ON NEW CASES AND EXISTING SYSTEM NUMBERS. VERIFY ALL EXISTING CONDITION AND LOCATION OF ALL BAS EQUIPMENT PRIOR TO ROUGH-IN.

UNLESS NOTED OTHERWISE, DEVICES SHOWN IN THIS ONE-LINE DIAGRAM ARE VENDOR FURNISHED; BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL CABLING AND DEVICES AND MAKE FINAL TERMINATIONS. REFER TO PLANS FOR DEVICE LOCATIONS.

COORDINATE WITH LEGACY BAS VENDOR (NOVAR) FOR THE REPROGRAMMING OF THEIR RACK CONTROLLER WITH THE REMOVAL OF REFRIGERATION CIRCUITS FROM THEIR CONTROL. VERIFY DEFROST SCHEDULES ARE COORDINATED BETWEEN THE EXISTING RACK CONTROLLER AND THE NEW CASE AND WALK-IN CONTROLS.

CIM-C2 SCHEDULE (E)			
1	C4a	(SENSOR)	(E)
2	C4b	(SENSOR)	(E)
3	C5	(SENSOR)	(E)
4	C6	(SENSOR)	(E)
5	C7	(SENSOR)	(E)
6	SPARE		
7	SPARE		
8	SPARE		
AUX	SPARE		

CIM-C3 SCHEDULE (E)	
1	SPARE
2	SPARE
3	SPARE
4	SPARE
5	SPARE
6	SPARE
7	SPARE
8	SPARE
AUX	SPARE

CIM-C4 SCHEDULE (E)			
1	SPARE		
2	SPARE		
3	SPARE		
4	SPARE		
5	C3a	(SENSOR)	(E)
6	C3b	(SENSOR)	(E)
7	C3c	(SENSOR)	(E)
8	C17	(SENSOR)	(E)
AUX	SPARE		

EXISTING CIM BACKBOARD (REFER TO PLAN)

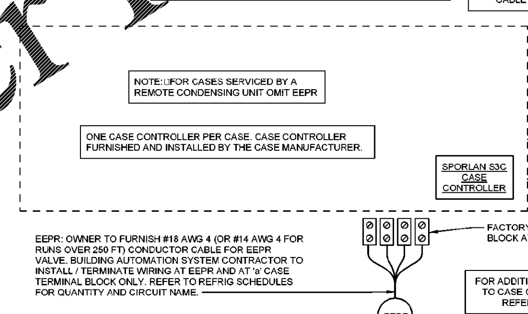
BAS ONE-LINE AND SCHEDULE NOTES		
E	——	EXISTING BAS DEVICE, SENSOR, OR WIRE FOR REUSE.
RL		EXISTING BAS DEVICE OR SENSOR TO RELOCATE AND RECONNECT. INSTALL NEW CABLE FOR RELOCATED DEVICE OR SENSOR AS NECESSARY.
RD		REDESIGNATED BAS DEVICE OR SENSOR.
RP		REPLACED BAS DEVICE OR SENSOR.
N		NEW BAS DEVICE OR SENSOR.
FI	——	NEW FIELD INSTALLED BAS DEVICE, SENSOR, OR WIRE.
FA	-------	NEW FACTORY INSTALLED BAS DEVICE, SENSOR, OR WIRE.
M		BAS DEVICE OR SENSOR USED FOR MONITORING ONLY.
DI		DIGITAL INPUT.
DO		DIGITAL OUTPUT.
AI		ANALOG INPUT.

1 REFRIGERATION BAS ONE-LINE DIAGRAM
NTS

3 BAS BACKBOARD
NTS

REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FACTORY WIRING DIAGRAMS, FIELD WIRING TERMINATIONS, AND RS485 BACNET WIRING DETAILS.

BUILDING AUTOMATION SYSTEM CONTRACTOR TO PROVIDE RS-485 COMM WIRING TO FIRST S3C CASE/COIL CONTROLLER ON COMM LOOP AND CAT-5E ETHERNET CABLE BETWEEN CONTROLLERS THEREAFTER.



FOR ADDITIONAL INFORMATION REFER TO CASE CONNECTION SCHEMATIC. REFER TO REFRIGERATION

07.23.19

2 CASE CONTROLLER WIRING (SPORLAN)
NTS

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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JOB NUMBER: 2180603709
PROTO: SPRB
GENERAL REMODEL

ISSUE BLOCK

CHECKED BY:	TGJ
DRAWN BY:	SAK
PROTO CYCLE:	09/25/20
DOCUMENT DATE:	11/20/20

NOT FOR CONSTRUCTION

REFRIGERATION BUILDING AUTOMATION SYSTEM SCHEDULES AND DETAILS

SHEET: BAS4

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