REFRIGERATION SCHEDULE SYSTEM Rack D

Format: Supercenter | Store #: 483 | System Type: Compressor House | Refrigerant: R422D
Proto Size: 192 | City/State: PRATTVILLE, AL | Consultant: HEI | Estimated Refrigerant Charge (lbs): N/A
Proto Cycle Date: 1/29/2021 | Elevation (ft): 171 | Prepared By: SARAH KRUGER | Rack & Cond. Charge (lbs): N/A
Date Prepared: 3/22/2021 | Design DB (°F) / WB (°F): 102°F / 82°F | Interior Design DB (°F) / RH%: 75°F / 55% | Fixture and Field Piping (lbs): N/A

Refrig. OEM: Kysor//Warren | Refrig. EMS: NOVAR | System Elec: 460V 3Ph 60Hz | Defrost Elec: 208V 60Hz 1 or 3 Ph | Sys. Pilot Elec: 208V 1 Ph
Condenser Type: Air | Sat. Cond. Temp (°F): 117 | Cond. Design TD (°F): 15 | N/A | Cond. Elec.: 460V 3 Ph 60Hz
Heat Reclaim Media: N/A | Heat Reclaim Use: N/A | Heat Reclaim Water (GPM): -- | Est. Summer THR (MBH): N/A | Est. Winter THR Avail (MBH): N/A
SG1 Refrig. Liquid Temp (°F): 75 | SG1 Comp RGT (°F): 50 | Evap. Superheat (°F): 10
SG2 Refrig. Liquid Temp (°F): N/A | SG2 Comp RGT (°F): N/A
SG3 Refrig. Liquid Temp (°F): N/A | SG3 Comp RGT (°F): N/A
EXTERIOR DRY BULB (DB) (°F): 101.5 | 5 yr. Extreme DB from ASHRAE Pub.: 2017 | EXTERIOR WET BULB (WB) (°F): 81.7 | 0.4% Monthly Max WB from ASHRAE Pub.: 2017 | ASHRAE Design Conditions Weather Station: MAXWELL AFB, AL

CIRCUIT INFORMATION / FIXTURE ELECTRICAL INFORMATION

CKT #	FT / # of Doors	2 Dr/4'	3 Dr/6'	4 Dr/8'	5 Dr/12'	L	W	H	Case/Coil Model	Case/Coil Manuf.	Application	LSHX Y or N? & Model # WI Evaps	Evaporator Coil TXV / Distributor Nozzle	Sub-Circuit Load (MBH)	Circuit Load (MBH)	Evap SST	Case/ Walk-In Air Temp	EPR	LLSV	Defrost Type	Defrost Heaters Amps	Defrost Heaters Voltage	Fans Amps	Fans Voltage	Lights Amps (120v)	Anti-Sweat Amps (120v)	Comments	Equip Number	CKT #
D1.1 *	0										CIRCUIT REMOVED			--	0.0					--	--	--	--	--	--	--	---	-	D1.1 *
D1.2	36'								N6DHPL		M.D. Produce			--	39.8	28				OT	--	--	3.2	120/1	--	--	---	-	D1.2
D1.3	36'								N6DHPL		M.D. Produce			--	39.8	28				OT	--	--	3.2	120/1	--	--	---	-	D1.3
D1.4						26	19	12	WK2100		Produce Cooler W.I.	N/A		--	20.4	27	36			OT	--	--	8.4	120/1	--	--		-	D1.4
D1.5						18	11	10	WK155A		Bakery Cooler W.I.	N/A		--	13.8	25	35			OT	--		4.2	120/1	--	--		-	D1.5
D2.1		MAIN CIRCUIT - SUBCIRCUITS ARE BELOW				18	43	16			Meat/Deli Cooler W.I.		TOTAL MAIN CIRCUIT		50.0	22	28			EL	90.4	208/1	8.0	120/1	--	--		-	D2.1
--									WKE270B(E)		1/2 Meat/Deli Cooler W.I.	N/A		25.0	--	22	28			EL	45.2	208/1	4.0	120/1	--	--		-	--
--									WKE270B(E)		1/2 Meat/Deli Cooler W.I.	N/A		25.0	--	22	28			EL	45.2	208/1	4.0	120/1	--	--		-	--
D2.2a *						19	18	10	WK1800		Meat Prep / Wrap / Process	N/A		--	18.0	36	43			OT	--		12.6	120/1	--	--		-	D2.2a *
D2.2b *	0										SPARE			--	0.0					--	--	--	--	--	--	--	CIRCUIT REMOVED	-	D2.2b *
D2.3 *		MAIN CIRCUIT - SUBCIRCUITS ARE BELOW				17	27	10		BOHN	Pickup Cooler		TOTAL MAIN CIRCUIT		21.2	26	34	CDST-7 **	E6 **	EL	34.0	208/1	2.5	208/1	--	--	CIRCUIT LOAD AND ELECTRICAL ARE TOTALS OF SUBCIRCUITS. REDESIGNATE CIRCUIT D2.2b.	-	D2.3 *
D2.3a									BEV0215BS6EMA	BOHN	1/2 Pickup Cooler	N/A	SER-B / #3/4	10.6	--	26	34			EL	17.0	208/1	1.3	208/1	--	--			D2.3a
D2.3b									BEV0215BS6EMA	BOHN	1/2 Pickup Cooler	N/A	SER-B / #3/4	10.6	--	26	34			EL	17.0	208/1	1.3	208/1	--	--			D2.3b
D3.1	36'								CPW-EXA125		M.D. Dairy			--	38.4	28				OT	--	--	5.8	120/1	--	--	---	-	D3.1
D3.2	36'								CPW-EXA125		M.D. Dairy			--	38.4	28				OT	--	--	5.8	120/1	--	--	---	-	D3.2
D3.3	40'								DX6LN		M.D. Beer			--	46.6	28				OT	--	--	1.2	120/1	--	--	---	-	D3.3
D4.1																												-	D4.1
D4.2						17	7	10	SM090A		Deli Cooler W.I.	N/A		--	8.1	22	35			OT	--		4.2	120/1	--	--			D4.2
D4.3		MAIN CIRCUIT - SUBCIRCUITS ARE BELOW				31	36	11			Dairy Cooler W.I.		TOTAL MAIN CIRCUIT		54.0	22	35			OT	--		50.4	120/1	--	--			D4.3
--									ADT312AJ		1/2 Dairy Cooler W.I.	N/A		27.0	--	22	35			OT			25.2	120/1	--	--		-	--
--									ADT312AJ		1/2 Dairy Cooler W.I.	N/A		27.0	--	22	35			OT			25.2	120/1	--	--		-	--
D5	32'								05DM-NRG		M.D. Beer			--	29.7	34				OT	--	--	1.9	120/1	--	--	---	-	D5

SUCTION GROUP #1 REQUIRED CAPACITY (MBH): 418.2 | 20 | (°F) Suction Temperature

General Notes:

1.) Owner's designated refrigeration equipment manufacturer: Kysor//Warren.
2.) Subcooler sized for 75°F liquid and 25°F approach.
3.) The scheduled data for existing to remain components, circuit loads, and electrical conditions are reproduced from original design documents and may not reflect exact as-built conditions.
4.) Contractor shall field verify existing status of data shown for modified racks and notify engineer of any discrepancies.
5.) OEM to ensure adequate size of compressors and condenser to meet 105% NRE at the scheduled ambient temperature conditions above.

Updated: 3/29/2021

REFRIGERATION SCHEDULE SYSTEM RCU1

Format: Supercenter | Store #: 483 | System Type: Condensing Unit | Refrigerant: R448A
Proto Size: 192 | City/State: PRATTVILLE, AL | Consultant: HEI | Estimated Refrigerant Charge (lbs): N/A
Proto Cycle Date: 1/29/2021 | Elevation (ft): 171 | Prepared By: SARAH KRUGER | Rack & Cond. Charge (lbs): N/A
Date Prepared: 3/22/2021 | Design DB (°F) / WB (°F): 102°F / 82°F | Interior Design DB (°F) / RH%: 75°F / 55% | Fixture and Field Piping (lbs): N/A

Refrig. OEM: Kysor//Warren | Refrig. EMS: NOVAR | System Elec: 208/220V 3ph 60Hz | Defrost Elec: Off Time | Sys. Pilot Elec: 208V 1 Ph
Condenser Type: Air | Sat. Cond. Temp (°F): 117 | Cond. Design TD (°F): 15 | N/A | Cond. Elec.: 208/220V 3 Ph 60Hz
Heat Reclaim Media: N/A | Heat Reclaim Use: N/A | Heat Reclaim Water (GPM): -- | Est. Summer THR (MBH): N/A | Est. Winter THR Avail (MBH): N/A
SG1 Refrig. Liquid Temp (°F): 109 | SG1 Comp RGT (°F): 50 | Evap. Superheat (°F): 10
SG2 Refrig. Liquid Temp (°F): N/A | SG2 Comp RGT (°F): N/A
SG3 Refrig. Liquid Temp (°F): [illegible] | SG3 Comp RGT (°F): N/A
EXTERIOR DRY BULB (DB) (°F): 101.5 | 5 yr. Extreme DB from ASHRAE Pub.: 2017 | EXTERIOR WET BULB (WB) (°F): 81.7 | 0.4% Monthly Max WB from ASHRAE Pub.: 2017 | ASHRAE Design Conditions Weather Station: MAXWELL AFB, AL

CIRCUIT INFORMATION / FIXTURE ELECTRICAL INFORMATION

CKT #	FT / # of Doors	2 Dr/4'	3 Dr/6'	4 Dr/8'	5 Dr/12'	L	W	H	Case/Coil Model	Case/Coil Manuf.	Application	LSHX Y or N? & Model # WI Evaps	Evaporator Coil TXV / Distributor Nozzle	Sub-Circuit Load (MBH)	Circuit Load (MBH)	Evap SST	Case/ Walk-In Air Temp	EPR	LLSV	Defrost Type	Defrost Heaters Amps	Defrost Heaters Voltage	Fans Amps	Fans Voltage	Lights Amps (120v)	Anti-Sweat Amps (120v)	Comments	Equip Number	CKT #
RCU1	28 FT			2	1				QC-R-35-IC	HILL PHOENIX INC	Grab N Go			--	29.5	24	32		E6S140	OT	[illegible]	--	3.9	120/1	3.1	--	TOTAL LIGHTS INCLUDES FOUR ROWS OF SHELF LIGHTS	RD1069.652 - 6/21/2019	RCU1

SUCTION GROUP #1 REQUIRED CAPACITY (MBH): 29.5 | 22 | (°F) Suction Temperature

General Notes:

1.) Owner's designated refrigeration equipment manufacturer: Kysor//Warren.
2.) OEM to ensure adequate size of compressors and condenser to meet 105% NRE at the scheduled ambient temperature conditions above.
3.) Cases controlled by S3C.
4.) Furnish with oversized receiver.

Updated: 3/24/2021

REFRIGERATION SCHEDULE SYSTEM RCU2

Format: Supercenter | Store #: 483 | System Type: Condensing Unit | Refrigerant: R448A
Proto Size: 192 | City/State: PRATTVILLE, AL | Consultant: HEI | Estimated Refrigerant Charge (lbs): N/A
Proto Cycle Date: 1/29/2021 | Elevation (ft): 171 | Prepared By: SARAH KRUGER | Rack & Cond. Charge (lbs): N/A
Date Prepared: 3/22/2021 | Design DB (°F) / WB (°F): 102°F / 82°F | Interior Design DB (°F) / RH%: 75°F / 55% | Fixture and Field Piping (lbs): N/A

Refrig. OEM: Kysor//Warren | Refrig. EMS: NOVAR | System Elec: 208/220V 3ph 60Hz | Defrost Elec: Off Time | Sys. Pilot Elec: 208V 1 Ph
Condenser Type: Air | Sat. Cond. Temp (°F): 117 | Cond. Design TD (°F): 15 | Cond. Elec.: 208/220V 3 Ph 60Hz
Heat Reclaim Media: N/A | Heat Reclaim Use: N/A | Heat Reclaim Water (GPM): -- | Est. Summer THR (MBH): N/A | Est. Winter THR Avail (MBH): N/A
SG1 Refrig. Liquid Temp (°F): 109 | SG1 Comp RGT (°F): 50 | Evap. Superheat (°F): 10
SG2 Refrig. Liquid Temp (°F): N/A | SG2 Comp RGT (°F): N/A
SG3 Refrig. Liquid Temp (°F): N/A | SG3 Comp RGT (°F): N/A
EXTERIOR DRY BULB (DB) (°F): 101.5 | 5 yr. Extreme DB from ASHRAE Pub.: 2017 | EXTERIOR WET BULB (WB) (°F): 81.7 | 0.4% Monthly Max WB from ASHRAE Pub.: 2017 | ASHRAE Design Conditions Weather Station: MAXWELL AFB, AL

CIRCUIT INFORMATION / FIXTURE ELECTRICAL INFORMATION

CKT #	FT / # of Doors	2 Dr/4'	3 Dr/6'	4 Dr/8'	5 Dr/12'	L	W	H	Case/Coil Model	Case/Coil Manuf.	Application	LSHX Y or N? & Model # WI Evaps	Evaporator Coil TXV / Distributor Nozzle	Sub-Circuit Load (MBH)	Circuit Load (MBH)	Evap SST	Case/ Walk-In Air Temp	EPR	LLSV	Defrost Type	Defrost Heaters Amps	Defrost Heaters Voltage	Fans Amps	Fans Voltage	Lights Amps (120v)	Anti-Sweat Amps (120v)	Comments	Equip Number	CKT #
RCU2	44 FT			4	1				QC-R-35-IC	HILL PHOENIX INC	Grab N Go			--	46.4	24	32		E9S250	OT	--	--	6.3	120/1	4.8	--	TOTAL LIGHTS INCLUDES FOUR ROWS OF SHELF LIGHTS	RD1069.652 - 6/21/2019	RCU2

SUCTION GROUP #1 REQUIRED CAPACITY (MBH): 46.4 | 22 | (°F) Suction Temperature

General Notes:

1.) Owner's designated refrigeration equipment manufacturer: Kysor//Warren.
2.) OEM to ensure adequate size of compressors and condenser to meet 105% NRE at the scheduled ambient temperature conditions above.
3.) Cases controlled by S3C.
4.) Furnish with oversized receiver.

Updated: 3/10/2021

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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.

DUSTIN R. PADGET

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2180300483
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EXPIRES 1/31/2022

Walmart
PRATTVILLE, AL
1903 COBBS FORD ROAD
STORE NO: 00483-249

JOB NUMBER: 2180300483 | PROTO: 188

2021 MAJOR PROJECT

ISSUE BLOCK

CHECKED BY:	CCK
DRAWN BY:	SAK
PROTO CYCLE:	01/29/21
DOCUMENT DATE:	03/31/21

ALABAMA LICENSED No. 39430-E PROFESSIONAL ENGINEER DUSTIN R. PADGET

03/30/2021

REFRIGERATION SCHEDULES

SHEET: R3.1