

Quote, Rev:

MINIMUM SPEND

Quote Date:

03/15/19

Heatcraft Worldwide Refrigeration Systems

5 Corporate Ridge Parkway

Columbus, GA 31907

800-866-5596, Fax: 706-565-1723

Customer:

Food Lion

Rack:

A

Store No.:

1662

Rack Model:

Existing Rack A

Location:

Laurel, MD

Salesman:

Austin, K

Order, Rev:

,

Appl Eng:

Austin, K

Revision:

Electrical Specs:

Volt/Hz/Phase

Controller:

CPC Einstein 2E RX-300 W LCD

Line:

208

Single or Dual Poin Pwr:

Control:

208

Case Manufacture:

MCA:

341.9

Drawing Reference:

Max Overcurrent Device:

400

Prototype Reference:

Rev.

Date:

By:

Kim Austin

Minimum spend - no changes

APR

6/4/2019

Kim Austin

Updated per walk through notes

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Store Circ ID	Size	Model	Heat Exchanger	Expansion Valve	Temp Probes	Application	Load MBtuh	Evap °F	Defrost Type	Fan Amps	Fan Volts	Light Amps	AS Amps	Fan Watts	Light Watts	AS Watts	Hot Gas Valve	Liquid Valve	Suction Valve	Run Length	Suction Horz	Suction Riser	Liquid Horz
A1		Sub-Cooler			1	Subcooler B	55.4	+40	None								None	None	Sport-1111	20	1 3/8	1 1/8	7/8
A2	16 X 20 X 8.5	AA38-195	EXISTING		1	Dairy Cooler	16.6	+25	Off Cycle	3.0	115			330			None	None	Sport-79	20	7/8	7/8	5/8
A3		Spare			2	Spare	0.0		Off Cycle								None	None	Sport-79	40	7/8	7/8	5/8
A4	48 Feet	(4) D6L1-12			1	Dairy 27-30	64.3	+20	Off Cycle	9.8	115	12.8	0.0	1,132	1,472		None	None	Sport-1313	50	1 5/8	1 3/8	7/8
A5	48 Feet	(4) D6L1-12			1	Dairy 31-34	64.3	+20	Off Cycle	9.8	115	12.8	0.0	1,132	1,472		None	None	Sport-1313	75	1 1/8	1 1/8	7/8
A6		Spare			2	Spare	0.0		Off Cycle								None	None	Sport 9-9		1 3/8		5/8
A7	9 X 11 X 8.5	AA28-76	EXISTING		2	Deli Cooler	7.6	+20	Off Cycle	4.0	115			260			None	None	Sport-5-9	200	7/8	1/2	5/8
A8	12/6/12'	PF-12, BDPF-6, BDPTD-12R RRS			2	Cake/Deli/ Serv. Cold Deli 3-5	34.4	+18	Off Cycle	5.5	120			660			None	None	Sport-3-9	200	1 3/8	1 1/8	5/8
A9	20 Feet	DX6LN-12R, DX6LN-08R			2	M/D Produce 12,13	23.4	+28	Off Cycle	0.6	115	2.4		96	281		None	None	Sport-5-9	170	1 1/8	7/8	5/8
A10		Spare			1	Spare	0.0		Off Cycle								None	None	Sport-5-9		7/8		5/8
A11	32 Feet	(2) QD6L1-12, QD6L1-08			1	MD Produce 7-9	44.3	+23	Off Cycle	2.0	115	3.9	0.0	230	446		None	None	Sport-3-9	130	1 1/8	7/8	5/8
A12		Spare			2	Spare	0.0		Off Cycle								None	None	Sport 5-9		1 1/8		5/8
A13	16 Feet	(2) QD6L1-08			2	SS Deli 1,2	22.2	+23	Off Cycle		115	2.0			230		None	None	Sport-5-9	220	1 1/8	7/8	5/8
A14	20 Feet	HZV1-12, HZV1-8			1	Produce 10,11	16.0	+20	Off Cycle	1.6	115	3.4		120	396		None	None	Sport-9-9	155	7/8	7/8	5/8
A15	10 X 30 X 8.5	(2) AA28-106	EXISTING		1	Produce Cooler	19.5	+25	Off Cycle	4.0	115			440			None	None	Sport-7-9	175	1 1/8	7/8	5/8
A16	527 Sq Ft	(2) FL36-100	EXISTING		1	Produce Prep	26.4	+30	Off Cycle	3.6	115			204			None	None	Sport-9-9	150	1 1/8	7/8	5/8
A17	36 Feet	(3) D6L1-12			1	Lunch Meat 21-23	54.6	+20	Off Cycle	4.8	115	5.9		360	683		MB19S2	None	Sport-1313	100	1 5/8	1 3/8	7/8
A18	24 Feet	(2) M4N1-12			2	Multi-Deck Fresh Meat 16,17	33.6	+15	Off Cycle	2.0	115	14.0	1.6	230	1,610	184	MB10S2	None	Sport-9-9	70	1 1/8	7/8	5/8
A19	8 Feet	M4N1			2	Multi-Deck Fresh Meat 19	11.2	+15	Off Cycle	0.7	115	4.7	0.5	81	541	58	None	None	Sport-3-9		1 1/8	5/8	5/8
A20	16 Feet	(2) QM4A1-8			2	Multi-Deck Fresh Meat 14,15	22.4	+23	Off Cycle	2.1	115	6.0	0.0	239	690	244	MB19S2	None	Sport-1111	20	1 3/8	1 3/8	7/8
A21	15 X 16 X 8.5	AG36-120	EXISTING		2	Meat Cooler	13.5	+20	Off Cycle	3.0	208/1			330			MB10S2	None	Sport-5-9	125	7/8	7/8	5/8
A22	624 Sq Ft	(2) FL26-67	EXISTING		1	Meat Prep	40.6	+30	Off Cycle	3.0	115			330			None	None	Sport-1111	90	1 1/8	1 1/8	5/8

General Specifications			Compressor Specifications														Condenser Specifications	
Refrigerant Type	R407A		Compressor SG	Comp #	Comp Model	Cap MBtuh	Suct °F	HP	RPM	RLA	LRA	Suction Filter	Capacity Control	Circuit Breaker	Contactactor	Wire Size (AWG)	Model Existing	ACE-147B-10A
Condensing Target °F	+110.0																TD	11.2
Ambient DB °F	+95.0		1	1	2DC3-050L	31	+15.0	5.0		20.0	120.0	None	None	QOU340	8910DPA13VQ	10	FPI	10
Ambient WB °F	+77.0		1	2	3DB3A100L-TFC-227	81	+15.0	10.0		39.1	215.0	None	None	QOU370	8910DPA43VQ	8	Voltage	208
Drop Leg °F	+106.0		1	3	3DT3A150L	94	+15.0	10.0		43.2	275.0	None	1 Unl	QOU380	8910DPA53VQ	6	FLA	39.2
			1	4	4DK3-2500	147	+15.0	25.0		73.7	428.0	None	None	QBL32150	8910DPA73VQ	3	MCA	39.9
Required Btuh SG1	570,177		1	5	4DH3A250L-TSK-227	147	+15.0	25.0		73.7	428.0	None	None	QBL32150	8910DPA73VQ	3	MOPD	40
Comp NRE Btuh SG1	647,239		1	6	4DK3R22ME	147	+15.0	25.0		73.7	428.0	None	None	QBL32150	8910DPA73VQ	3	Charged Wt	4,771
NRE with SC SG1	647,239																Size	96 x 338.25
% Loaded SG1	88.1%																# of Fans	14
THR SG1	902,281																Line To	(2) 2 1/8
																	Line From	(2) 1 5/8

Required Btuh SG2

Comp NRE Btuh SG2

NRE with SC SG2

% Loaded SG2

THR SG2

Oil Separator

S5202

Drain Regulator

Disc. Check Valve

Bypass Regulator

Air Reclaim

16D17B

Head Fan LT/MT

Line Size To

2 1/8

Line Size From

2 1/8

Crnkcase Htrs

2.9

Suction Crossover / Load Shed

Suction Group

1

2

3

4

Required Btuh SG3

Comp NRE Btuh SG3

NRE with SC SG3

% Loaded SG3

THR SG3

Oil Type

Oil Brand

Oil Reservoir

Oil Check Valve

Suction Filter Main / Ind

Surge Ball Valve

Surge Check

Surge Style

Sub-Cooler

Sub-Cooler TEV 1

Sub-Cooler TEV 2

Water Reclaim

Line Size To

Line Size From

Bypass Check

Split Condenser

Receiver H / V

16D17B-SC

106

Dia x Length

Lbs @ 80.0%

Liquid Level

Required Btuh SG4

Comp NRE Btuh SG4

NRE with SC SG4

% Loaded SG4

THR SG4

Sight Glass

Comment

Total Heat of Rejection (THR in Btuh)	902,281
Heat Reclaim Avail (Btuh)	451,140
Comp Capacity (Tons)	54.5
Rack Size (D x H x W)	
Est. Rack Lift Weight (Lb)	
Est. Rack Operating Weight (Lb)	



Worldwide Refrigeration Display Cases
5201 Transport Blvd
Columbus, GA 31908
800-866-5596, Fax: 706-568-8990

Rev.	Date:	By:	Revision:	Electrical Specs:	Volt/Hz/Phase	Controller:	CPC Einstein 2E RX-300 W LCD
APR	6/4/2019	Kim Austin	Minimum spend - no changes	Line:	208	Single or Dual Poin Pwr:	
APR1	10/3/2019	Kim Austin	Updated per walk through notes	Control:	208	Case Manufacture:	
				MCA:	186.9	Drawing Reference:	
				Max Overcurrent Device:	225	Prototype Reference:	

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Store Circ ID	Size	Model	Heat Exchanger	Expansion Valve	Temp Probes	Application	Load MBtuH	Evap °F	Defrost Type	Fan Amps	Fan Volts	Light Amps	AS Amps	Fan Watts	Light Watts	AS Watts	Hot Gas Valve	Liquid Valve	Suction Valve	Run Length	Suction Horiz	Suction Riser	Liquid Horiz	
B1	13 X 24 X 8.5	(2) AG36-120	EXISTING		2	Storage Freezer	18.5	-15	Hot Gas	6.0	208/1			660			MB19S2	None	Sport-11-11	20	1/8	1/8	5/8	
B2	12 x 13 x 8.5	AG44-140	EXISTING		2	Ice Cream Freezer	11.5	-18	Hot Gas	4.0	208/1			440			MB10S2	None	Sport-9-9	40	1/8	7/8	5/8	
B3	15 Doors	(3) LV5V14-5			2	Frozen Meat/ Food 24-26	22.5	-15	Hot Gas	5.4	115	11.7	28.0	450	1,346	3,305	MB19S2	None	Sport-11-11	20	3/8	1/8	5/8	
B4	7 Doors	(2) LV5V14-4, LV5V14-3			2	Ice Cream/FF 39-40	10.5	-15	Hot Gas	3.4	115	8.5	11.0	391	978	1,265	MB19S2	None	Sport-9-9	50	13/8	1/8	5/8	
B5	12 Doors	(2) LV5V14-5, LV5V14-4			2	Frozen Food 41-42	13.5	-15	Hot Gas	3.6	115	8.9	12.0	412	982	1,265	MB10S2	None	Sport-9-9	55	1/8	1/8	5/8	
B6	12 Doors	(2) LV5V14-5, LV5V14-4, LV5V14-3			2	Frozen Food 50-52	18.0	-15	Hot Gas	5.9	115	14.8	18.7	679	1,702	2,151	MB10S2	None	Sport-11-11	35	1/8	7/8	5/8	
B7	10 Doors	(2) LV5V14-5			2	Frozen Food 48-49	15.0	-15	Hot Gas	3.6	115	7.8	19.2	300	897	2,203	MB10S2	None	Sport-9-9	45	1/8	7/8	5/8	
B8	15 Doors	(3) IV5V14-5			2	Ice Cream 36-38	25.5	-18	Hot Gas	5.4	115	11.7	28.7	450	1,346	3,305	MB19S2	None	Sport-1313	70	13/8	13/8	5/8	
B9	10 Doors	(2) LV5V14-5			2	Frozen Food 43-44	15.0	-15	Hot Gas	3.6	115	7.8	19.2	300	897	2,203	MB10S2	None	Sport-1313	75	1/8	7/8	5/8	
B10	13 Doors	(2) IV5V14-5, IV5V14-3			2	Frozen Food/ Ice Cream 35, 53,54	22.1	-18	Hot Gas	6.4	115	14.8	20.2	736	1,702	2,323	MB10S2	None	Sport-9-9	65	1/8	7/8	5/8	
B11	12 Doors	LV5V14-5, LV5V14-4, LV5V14-3			2	Frozen Food 45-47	18.0	-15	Hot Gas	5.9	115	14.8	18.7	679	1,702	2,151	MB10S2	None	Sport-11-11	70	1/8	7/8	5/8	
B12	11 X 14 X 8.5	AG36-120	EXISTING		2	Deli/Bakery Freezer	11.5	-15	Hot Gas	3.0	208/1						MB10S2	None	Sport-7-9	200	1/8	7/8	5/8	
B13	3 Doors	(2) LV5V14-3			1	Frozen Bakery 6	5.1	-18	Hot Gas	1.1	115			90			MB10S2	None	Sport-9-9	155	7/8	1/8	5/8	
B14	10 x 10 x 8.5	AG26-92	EXISTING		2	Meat Freezer	8.8	-25	Hot Gas	2.0	208/1	2.6	6.2	330	299	715	MB10S2	None	Sport-7-9	40	7/8	7/8	5/8	
B15	6 Ft	IL1-6			2	D/T Meat Promo 20	2.4	-18	Hot Gas	0.8	115		1.5	60			169	MB10S2	None	Sport-5-9	60	1/2	1/2	5/8
B16	8 Ft	IL1-8			2	D/T Meat Promo 19	3.2	-18	Hot Gas	0.8	115		1.4	60			160	MB10S2	None	Sport-7-9	60	5/8	1/2	5/8

General Specifications			Compressor Specifications												Condenser Specifications				
Refrigerant Type		R407A	Compressor SG	Comp #	Comp Model	Cap MBtuh	Suct °F	HP	RPM	RLA	LRA	Suction Filter	Capacity Control	Circuit Breaker	Contactors	Wire Size (AWG)	Model	EXISTING	ACE-065B-10A
Condensing Target °F		+105.0															TD	10.2	
Ambient DB °F		+95.0	1	1	2DF3F16KE	16	-25.0	3.0		14.3	102.0	None	None	QOU330	8910DPA13V	12	FPI	10	
Ambient WB °F		+77.0	1	2	2DB3-060L-TFC-227	24	-25.0	6.0		22.8	161.0	None	None	QOU340	8910DPA33V	10	Voltage	208	
Drop Leg °F		+101.0	1	3	4DL3F63KE	62	-25.0	15.0		41.7	278.0	None	None	QOU380	8910DPA53V	6	FLA	16.8	
			1	4	4DT3F76KE	74	-25.0	22.0		46.2	374.0	None	None	QOU390	8910DPA73V	6	MCA	17.5	
			1	5	4DT3F76KE	74	-25.0	22.0		46.2	374.0	None	None	QOU390	8910DPA73V	6	MOPO	20	
Required Btuh SG1		221,177															Charged Wt	2,050	
Comp NRE Btuh SG1		201,185															Size	96 x 146.25	
NRE with SC SG1		248,694															# of Fans	6	
% Loaded SG1		88.9%															Line To	(2) 1 3/8	
THR SG1		327,928															Line From	(2) 1 1/8	

[illegible]