Customer :	Trane Indiana	CLIMACOOL™ THE ULTIMATE CHILLER SOLUTION					Project Name:	Birch Bayh Courthouse	
Cu.Contact:									
From:	ClimaCool Corp.								
Prepared By:							Project #		
		UCA SERIES	**Qty**	**30-Ton Model**			Refrigerant Type:	R-410A	
Date :	4/30/2010	**PACKAGED A/C CHILLER**	3	UCA030AF ASACMLS			Refrigerant Chg. (lbs):	144	

SELECTION PROGRAM, Release 03/10/09

TECHNICAL DATA :

							IPLV (or APLV) Load Factors:		
Cooling capacity	86.1		Tons				100%:	10.82	EER
Power input	95.5		kW				75%:	13.79	EER
System Efficiency EER (@ Full Load)	10.8		EER, or	1.11	kW/Ton		50%:	16.90	EER
System Efficiency EER (IPLV or APLV)	15.6		EER, or	0.77	kW/Ton		25%:	19.05	EER
No of Circuits/Compressors	6 / 6		Capacity steps/Ctrl. Voltage:			6 / 24VAC			

EVAPORATOR :

	Inlet Temp.		Outlet Temp.		Evap. Fluid Type	Glycol Wt%
Evaporator water conditions	54	deg. F	44	deg. F	WATER	
Evaporator water flow rate	206		GPM			
Evaporator pressure drop	2.60		Psig, or...	6.0	Ft. H2O"	
Fouling factor exchangers	0.0001		h.ft² °F/Btu			

EVAPORATOR STRAINER:	CC Model No. :	4Y200 60	Evap. Strainer Type:	Y-Flanged	
Evap.Strainer pressure drop:	(clean):	0.57 psig	Mesh Size:	60-Mesh	
Evap. Strainer pressure drop:(@ 70% Clogged):		1.77 psig	Pressure & Temp. Rating:	200 psig	150 deg. F

AIR-COOLED CONDENSER :

	Inlet Temp.		Outlet Temp.
Condenser air conditions	95 deg. F		112.9 deg. F
Condenser air-flow rate (module/total)	19,600	58,800	SCFM
Condenser Total Heat Rejection (THR) (module/total)	464	1,391	MBH
Condenser air pressure drop	0.29		" of H_2O
Condenser fan type	Axial		
Condenser fan Qty (module/total)	2/6		
Condenser fan Hp (each)	1.5		
Condenser fan diameter	31.5"		

ELECTRICAL DATA :

	Module			Bank	
Power supply	460/3/60	V/Ph/Hz		460/3/60	V/Ph/Hz
Control circuit voltage	24	VAC		24	VAC
RLA	58	A		175	A
MCA	65	A		181	A
MOP	90	A		200	A

BANK SOUND DATA :

Sound Power Level With Panels	72		dBA

BANK WEIGHT / SIZE DATA :

Net weight :	6,270 Pounds		Operating weight :	6,840 Pounds			
Dimensions :	length:	253.75	width:	39.75		height	84
Water Inlet/Outlet Header Connection size :	6"						

NOTES:

1. The unit must be fitted with a 60 mesh strainer upstream of the exchangers.
2. Galvanized steel pipes and fittings should NOT be used for the pipework connected to the chiller.
3. The evaporator water heat exchanger is designed for a fouling factor of 0.0001 h-ft2-oF/Btu.
4. RLA. Rated Load Amps are calculated as per UL1995.
5. MCA. Min. Circuit Ampacity is: [125% of the RLA of the largest compr. motor plus RLA of all concurrent motors and/or electrical loads].
6. MOP. Maximum Overcurrent Protection or Max.Fuse Size is rounded down: [225% of RLA of largest compr. motor plus 100% of RLA of all other concurrent elec. loads].
7. The minimum recommended evap. fluid (water or glycol) capacity must be 2.0 gallons per ton, based on Total Chiller tons at full load.
8. The max. design outdoor ambient temperature is: 110 deg. F and the min. design outdoor ambient temperature is : 0 deg. F .

DESIGN STATEMENTS:

* EVAPORATOR FLOW : OK
* AMPERAGE VALUE : OK
* DESIGN ELEVATION : 0 ft

MODULE OPTIONS & ACCESSORIES:

Controls & Electrical	A = Standard (DDC)
Compressor Type	S = Scroll
Refrigerant Type	A = R-410A
Application	C = Cooling
Water Isolation Valves	M = Manual
Refrigerant Options	L = Low ambient to 0°F
Model Configuration:	S = Standard

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