


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

TECHNICAL DATA :

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	50%:	16.90	EER
System Efficiency EER (IPLV or APLV)	15.6	EER, or	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 ₂ O
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	dB(A)
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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:

- The unit must be fitted with a 60 mesh strainer upstream of the exchangers.
- Galvanized steel pipes and fittings should NOT be used for the pipework connected to the chiller.
- The evaporator water heat exchanger is designed for a fouling factor of 0.0001 h-ft²-oF/Btu.
- RLA. Rated Load Amps are calculated as per UL1995.
- MCA. Min. Circuit Ampacity is: [125% of the RLA of the largest compr. motor plus RLA of all concurrent motors and/or electrical loads].
- 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].
- The minimum recommended evap. fluid (water or glycol) capacity must be 2.0 gallons per ton, based on Total Chiller tons at full load.
- 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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