

FORM WCCL-FA3 WCCL TEST STAND AND EQUIPMENT QUESTIONNAIRE

AHRI CERTIFICATION PROGRAM FOR WATER-COOLED WATER CHILLING AND HEAT PUMP WATER-HEATING (WCCL) PACKAGES

Comp	pany (Participant) Name	9						
Test S	Stand Address and Unio	que Name						
	- . 0							
1.	Test Stand Limitations					,		Ī
	Operating Range of	Minimum Cooling Capacity				cate		
	Test Stand	Maximum Cooling Capacity			TON	s or kW		
	Evaporator Water	Minimum Capacity			In	dicate		
	Flow Condenser Water	Maximum Capacity			GPM or L/s			
	Flow	Minimum Capacity						
		Maximum Capacity			Volt			
	Power Supply 60 Hz, 3 Phase							
		50 Hz, 3 Phase			Max Amps Volts			
		30 112, 3 F11a3e				Amps		
	Physical Size	Dimensions of large	Dimensions of largest unit you			gth		
	1 Hysical Olzc	can place in your te		u	Heig			
		(Indicate ft or m)	or orang		Wid			
2.	Time Requirements							
		to install and fully instr	rument a		# of Persons			
	unit for test?				Total # of man-hours			
	How long does it take to conduct a standard rating				# of Persons			
	test from start to finish, including calculations?				Total # of man-hours			
	How many shifts per day will you employ for witness				Length of shift, hrs.			
	testing?				# of shifts			
3. \	Water Temperature Me	asurement						
Instruments for determining Instrument Freque								
water temperature Accuracy calib			calibrat				ational	
			months			Standard?		
RTD						□ Yes	□ No	
Thermocouple						□ Yes	□ No	
Otho	P1		1			□ Yes	□ No	
Other: Data Acquisition Type						□ res		
Dala	Acquisition Type							
	Where do you pl	ace your water temper	rature me	asurin	g instr	ruments?		
	What type of mix	king device do you emp	oloy in the	chille	d wat	er medium?)	_
	The mixing device	ce conforms to which s	tandard?					-

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	of accommoda	iting ¼ inch l		ar the Entering and bes with immersio		ing water temperature hs of 1/3 to ½ the	
5. Flow Measureme Flow measuring instruments used	Instrument Accuracy	Diameter	Frequency of calibration, months	To what code standard(s), if any, is the instrument installed?	star NIS	ne primary ndard traceable to T or a comparable ional Standard?	
Rota meter					□ Y	es □ No	
Turbine meter					□ Y	es □ No	
Orifice meter					□Y	□ Yes □ No	
Magnetic meter					□ Yes □ No		
Other					□Y	es □ No	
Data Acquisition Type	Э						
What is the le	ength of straigh	nt pipe upstre	eam of flow me stream of flow y of To w	easuring device ? measuring device that code standard y, is the instrument	? (s),	Is the primary standard traceable to NIST or a comparable	
						National Standard?	
Differential Pressure						□ Yes □ No	
Absolute pressure 1						□ Yes □ No	
Absolute pressure 2						□ Yes □ No	
						□ Yes □ No	
Other						□ Yes □ No	
Data Acquisition Type		L	L				
Will you be	51/591 (SI) to a	ment factors	per Appendix	G of AHRI Standa			

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	nstrument ccuracy	calibrat	Frequency of calibration, months		of both 50 Iz non- al ement?	Is the primary standard traceable to NIST or a comparable National Standard?	
Watt meter				□ Yes □ No		□ Yes □ No	
Watt hour meter				□ Yes □ No		□ Yes □ No	
Transducers				□ Yes □ No		□ Yes □ No	
Other				□ Yes □ No		□ Yes □ No	
Data Acquisition Type		-		1			
. Voltage Measurement							
Type of voltmeter used	Accurand/or	Accuracy		ency of tion,	Is the primary standard traceable to NIST or a comparable National Standard?		
Analog meter		Jan grande			□ Yes □ No		
Digital meter						No	
Fransducers				□ Yes □			
Potential Transformer				□ Yes □			
Other					□ Yes □	INO	
. Current Measurement							
Type of ammeter used	Accurac	Instrument Accuracy and/or Metering Class		Frequency of calibration, months		Is the primary standard traceable to NIST or a comparable National Standard?	
Analog motor	Wictoring	<i>y</i> 01033	11101101		□ Yes □		
Analog meter Digital meter						No	
Current Transformer						No	
Transducers						No	
Other						No	
Is a regulated voltaIf not regulated, where the second regulated is a second regulated.	,					r 24 hours?	
What is the magnit	tude of chang	e in the su	ipply vol	tage betwe	een "load" ai	nd "no load"?	
Is the wave shape						No ing total harmonic distortio	

• Describe data acquisition system and data obtained (averaging or instantaneous):

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11.	Test S	Stand Limitations Identify all Test Stand limitations for achieving AHRI test conditions (i.e. weather dependencies; air flow rates; etc). Identify all limitations for conducting AHRI certification testing (i.e. Test stand availability; operator training, etc).						
	•							
12.	Refri •	rigerant Charge: What method do you employ to confirm pr	roper refrigerant charge in the unit for test?					
Sub	mitted	Ву:						
Sigr	nature		Title					
Prin	ted Na	ame	Date					

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