

## Startup Record Sheet - Commercial W/WH-Series

Installation Site		Startup Date	Installer	
City			Company	
Province		Check boxes unless asked to record data. Circle data units.	Model	
Country			Serial #	
Client Name		Site Owner Phone #		

### PRE-START INSPECTION

<b>Indoor Loop (Hydronic)</b>	All shut-off valve are open (full flow available)				
	Loop is full and purged of air				
	Antifreeze type				
	Antifreeze concentration		% Volume	% Weight	
	Loop static pressure		psig	kPa	
<b>Ground Loop System</b>	All shut-off valve are open (full flow available)				
	Loop is full and purged of air				
	Loop static pressure		psig	kPa	
<b>Ground Water System</b>	Water valve installed in return line				
	Flow control installed in return line				
<b>Electrical</b>	High voltage connections are correct and securely fastened				
	Circuit breaker (or fuse) size and wire gauge for Heat Pump		A	Ga.	
	Circulator pump voltages (Outdoor 1, Outdoor 2, Indoor 1)		V	V	V
	Low voltage connections are correct and securely fastened				

### STARTUP DATA

<b>Preparation</b>	Voltage across L1 and L2, L1 and L3, L2 and L3				VAC
<b>Heating Mode (10 minutes)</b>	Stage 1 Suction Pressure / Discharge Pressure			psig	kPa
	Stage 2 Suction Pressure / Discharge Pressure			psig	kPa
	Indoor In (Hot In), Indoor Out (Hot Out), and Delta T	In	Out	°F	°C
	Outdoor In (Supply In), Outdoor Out (Supply Out), and Delta T	In	Out	°F	°C
	Outdoor Flow	igpm	gpm	L/s	
	Compressor L1 (black wire) current	A			
	Heating setpoint and discharge pressure at cycle end	°F	°C	psig	kPa
<b>Cooling Mode (HAC only) (10 minutes)</b>	Stage 1 Suction Pressure / Discharge Pressure			psig	kPa
	Stage 2 Suction Pressure / Discharge Pressure			psig	kPa
	Indoor In (Hot In), Indoor Out (Hot Out), and Delta T	In	Out	°F	°C
	Outdoor In (Supply In), Outdoor Out (Supply Out), and Delta T	In	Out	°F	°C
	Cooling setpoint and suction pressure at cycle end	°F	°C	psig	kPa
<b>Final Control Settings</b>	Heating S1 Setpoint, S1 Delta		°F	°C	
	Heating S2 Setpoint, S2 Delta		°F	°C	
	Heating S3 Setpoint, S3 Delta, S3 Time Delay		°F	°C	min
	Cooling S1 Setpoint, S1 Delta		°F	°C	
	Cooling S2 Setpoint, S2 Delta		°F	°C	

Date:		Startup Personnel Signature:		Witness/Site Signature:	
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A total of three copies are required, one for the site, one for the installer/startup and one to be sent to Maritime Geothermal Ltd.