Please fill out either form:

FORM 1:

Packaged Water-To-Air and Water-To-Water Units

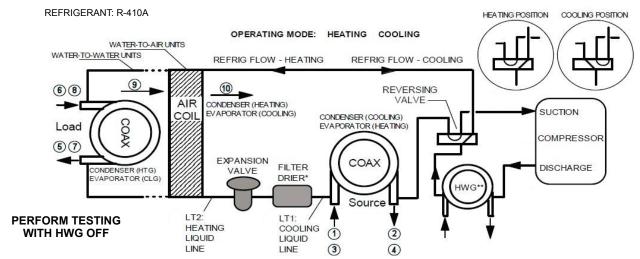
FORM 2: Water-To-Air Split Units





Geothermal Heat Pump Start-Up Certification Form

Installer Name	Company Name					
Company Address	City	State	Zip/Postal Code			
Phone	Installer E-Mail					
Customer Name	Customer E-Mail					
Customer Address	City	State	Zip/Postal Code			
Phone	Start-Up Date					
Loop Type: Open Closed Pressurized Closed Non-Pressurized Antifreeze Type and %						
Model No	Serial No.					



Complete the following information for any type of unit			Additional Information required for Water-to-Water Unit only						
	Description	Heating	Cooling	Notes	Description Heating Cooling Notes		Notes		
	Voltage				5	Load Water In Temp			
1	Water In Temp				6	Load Water Out Temp			
2	Water Out Temp					Temp Change			5 minus (-) 6
	Temp Change			1 minus (-) 2	7	Load Water In Pressure			
3	Pressure In (lbs)				8	Load Water Out Pressure			
4	Pressure Out (lbs)					Temp Change			7 minus (-) 8
	Pressure Drop			3 minus (-) 4		'			
9	Return Air Temp								
10	Supply Air Temp			9 minus (-) 10					
	Temp Change]				

NOTES:

- 1. "Temp" always refers to temperature
- 2. Enter temperature in degrees Fahrenheit (°F)
- 3. Enter pressure in pounds (lbs)

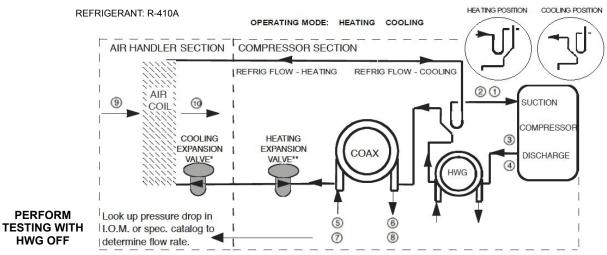
Calculate Heat of Extraction (Absorp	Fluid Factor: Use 500 for water, 485 for antifreeze		
Flow Rate (GPM) X	Water Temp Difference (°F) X _	Fluid Factor =	BTUH (HE or HR)

Installing Contractor: Must submit this completed form. Fax 517-787-9341, -OR- email to: bmiles@marsdelivers.com. IMPORTANT: Include customer e-mail so warranty certificate can be sent.



Geothermal Heat Pump Start-Up Certification Form

Installer Name	Company Name		
Company Address	City	State	Zip/Postal Code
Phone	Installer E-Mail		
Customer Name	Customer E-Mail		
Customer Address	City	State	Zip/Postal Code
Phone	Start-Up Date		
Loop Type: Open Closed Pressurized Closed Non-Pressurized	urized Antifreeze Type and %		
Model No	Serial No.		



^{*}Cooling expansion valve meters in the cooling mode, and bypasses in the heating mode.

^{**}Heating expansion valve meters in the heating mode, and bypasses in the cooling mode.

	Description	Heating	Cooling	Notes		Description	Heating	Cooling	Notes
	Voltage				1	Suction Line Temp			
5	Water In Temp				2	Suction Line Pressure			
6	Water Out Temp					Saturation Temp			
	Temp Change			5 minus (-) 6		Superheat			Sat. Temp - Line Temp
7	Pressure In (lbs)				3	Discharge Line Temp			
8	Pressure Out (lbs)				4	Discharge Line Pressure			
	Pressure Drop			7 minus (-) 8		Saturation Temp			
9	Return Air Temp					Subcooling			Sat. Temp - Line Temp
10	Supply Air Temp			9 minus (-) 10					
	Temp Change								

NOTES:

PERFORM

HWG OFF

- 1. "Temp" always refers to temperature
- 2. Enter temperature in degrees Fahrenheit (°F)
- 3. Enter pressure in pounds (lbs)

Calculate Heat of Extraction (Absorp	tion) or Heat of Rejection:	Fluid Factor: Use 500 for water, 485 for antifreeze		
Flow Rate (GPM) X	Water Temp Difference (°F) X _	Fluid Factor =	BTUH (HE or HR)	