



# WARRANTY TECHNICAL ANALYSIS FORM

COMPLETE AND SUBMIT THIS FORM WITH EACH WARRANTY CLAIM FORM FOR LABOR ALLOWANCE REMITTANCE  
 FOR QUESTIONS OR ASSISTANCE WHEN COMPLETING THIS FORM CONTACT TECHNICAL SERVICES  
 PHONE: 618.664.5860 FAX: 618.664.4597 EMAIL: TECHNICALSERVICES@ENERTECHGEO.COM

MODEL NUMBER \_\_\_\_\_ SERIAL NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

DEALER/DISTRIBUTOR NAME \_\_\_\_\_ TECHNICIAN \_\_\_\_\_

- \* For compressor diagnosis, measure and record the information (after compressor has been changed) in tables 1 & 2, and if running 3, 4, 6, & 7 (and 5 if W to W)
- \* For TXV diagnosis measure and record the information in tables 3, 4, 6, 7, 9, 10 and 5 if Combo or W to W
- \* For Reversing Valve diagnosis measure and record the information in tables 7 & 8

Loop Type: Open Closed (√ One)			Flow Center: Pressurized Non-Pressurized (√ One)					
<b>1. UNIT ELECTRICAL DATA</b>			COOLING	HEATING	<b>6. HEAT OF REJECTION/</b>		COOLING	HEATING
Line Voltage	V		V		HR/HE = GPM X WTD X 500 (Water/			
Total Amps		A	A		HR/HE = GPM X WTD X 485 (Water with Antifreeze)			
Wire Size			GA		Heat of Rejection (HR)	BTU/HR		
Circuit Breaker Size			A		Heat of Extraction (HE)			BTU/HR
<b>2. COMPRESSOR ELECTRICAL</b>			<b>7. SUPERHEAT/SUBCOOLING</b>			COOLING	HEATING	
Run Capacitor	Capcitanace		μF		Suction Pressure	PSI		PSI
Amps			A		Suction Saturation Temp.	°F		°F
<b>WINDING OHMS</b>	Start to Run		Ω		Suction Line Temp.	°F		°F
	Start to Common		Ω		Superheat =	°F		°F
	Common to Run		Ω		Line Temp. - Saturation Temp.			
<b>3. WATER TEMPERATURES</b>			COOLING	HEATING	Head Pressure	PSI		PSI
Source Water Temp. In		°F	°F		High Pressure Sat. Temp.	°F		°F
Source Water Temp. Out		°F	°F		Liquid Line Temp.	°F		°F
Source Water Temp. Diff.		°F	°F		Subcooling =	°F		°F
Load Water Temp. In		°F	°F		HP Sat. Temp. - Liquid Line			
Load Water Temp. Out		°F	°F		<b>8. REVERSING VALVE</b>			
Load Water Temp. Diff.		°F	°F		Solenoid Coil (cooling only)			VAC
<b>4. SOURCE FLOW RATES</b>			COOLING	HEATING	Suction Temp.	In °F		Out °F
Source Water Pressure In		PSI	PSI		Discharge Temp.	In °F		Out °F
Source Water Pressure Out		PSI	PSI		<b>9. TXV TEST RESULTS</b>			
Source Water Pressure Drop		PSI	PSI		Pass Fail			
Flow Rate		GPM	GPM		<b>LINE SET</b> (diameter, length, height)			
*Check Pressure Drop Chart for GPM					liquid	vapor	length	height
<b>5. LOAD WATER PRESSURE</b>			COOLING	HEATING	<b>10. AIR TEMPERATURES</b>			
Load Water Pressure In		PSI	PSI		COOLING	HEATING		
Load Water Pressure Out		PSI	PSI		Supply Air	°F		°F
Load Water Pressure Diff.					Return Air	°F		°F
					Difference	°F		°F
					Aqua Stat Setting	°F		°F

**MAIL THIS FORM TO:**  
 ENERTECH GLOBAL LLC  
 2506 SOUTH ELM STREET  
 GREENVILLE, IL 62246

**E-MAIL THIS COMPLETED FORM TO:**  
 WARRANTY@ENERTECHGEO.COM

**FAX THIS FORM TO:**  
 ENERTECH GLOBAL LLC  
 618.664.4597