WhisperKOOL™
The Coolest Thing In Wine Storage

R-134a Split System (H.E.) Warranty Checklist

For Warranty Registration

Customer Information

First Name:		Last Name:
Address:		Phone:
City:		E-mail:
State:	Zip:	Date of Purchase:

System Information

Unit Model:	**Fan Coil Unit Serial Number:** (Located on model spec label)
Condensing Unit Model Number:	**Condensing Unit Serial Number:**

Installer Information

Company: lic#		Date of Startup:
Address:		Technician Name (print):
City:		Certification ID Number:
State:	Zip:	Certification Source (e.g. NATE):
Company Phone:		Technician Phone:
Company Email:		Technician E-mail:

NOTE: *For the equipment warranty to be valid, certain piping installation and startup procedures are required. WhisperKOOL procedures are expected to be followed and completed by the installing certified HVAC/R service technician. The technician shall be required to be equipped with the proper tools of the trade, including: refrigerant 134a, brazing equipment, dry nitrogen, and an accurate manifold gauge set (preferably digital), plus a four-valve manifold set for evacuation, digital micron gauge, digital scale, deep vacuum pump and accurate digital thermometers. Without the proper equipment, a professional job cannot be accomplished. Evidence of the certified tech's NATE number or other certification is required.*

IMPORTANT:

THESE DOCUMENTS MUST BE COMPLETED AND RETURNED TO ACTIVATE WARRANTY.

Mail to:
WhisperKOOL
ATTN: Warranty Registration
1738 E. Alpine Avenue
Stockton, CA 95205
USA

OR

Fax to:
209.466.4606

OR

Scan and email to:
warranty@whisperkool.com

Saturation Pressure-Temperature Data for R-134a (psig)*

Temp. (°F)	Pressure (psig)	Temp. (°C)	Temp. (°F)	Pressure (psig)	Temp. (°C)	Temp. (°F)	Pressure (psig)	Temp. (°C)	Temp. (°F)	Pressure (psig)	Temp. (°C)
-49	*18.4*	-45.0	1	7.0	-17.2	51	46.6	10.6	101	126.3	38.3
-48	*18.0*	-44.4	2	7.5	-16.7	52	47.7	11.1	102	128.4	38.9
-47	*17.6*	-43.9	3	8.0	-16.1	53	48.9	11.7	103	130.6	39.4
-46	*17.3*	-43.3	4	8.5	-15.6	54	50.0	12.2	104	132.8	40.0
-45	*16.9*	-42.8	5	9.1	-15.0	55	51.2	12.8	105	135.0	40.6
-44	*16.5*	-42.2	6	9.6	-14.4	56	52.4	13.3	106	137.2	41.1
-43	*16.1*	-41.7	7	10.2	-13.9	57	53.6	13.9	107	139.5	41.7
-42	*15.7*	-41.1	8	10.8	-13.3	58	54.9	14.4	108	141.7	42.2
-41	*15.2*	-40.6	9	11.3	-12.8	59	56.1	15.0	109	144.0	42.8
-40	*14.8*	-40.0	10	11.9	-12.2	60	57.4	15.6	110	146.4	43.3
-39	*14.4*	-39.4	11	12.5	-11.7	61	58.7	16.1	111	148.7	43.9
-38	*13.9*	-38.9	12	13.1	-11.1	62	60.0	16.7	112	151.1	44.4
-37	*13.4*	-38.3	13	13.8	-10.6	63	61.3	17.2	113	153.5	45.0
-36	*13.0*	-37.8	14	14.4	-10.0	64	62.7	17.8	114	156.0	45.6
-35	*12.5*	-37.2	15	15.0	-9.4	65	64.0	18.3	115	158.4	46.1
-34	*12.0*	-36.7	16	15.7	-8.9	66	65.4	18.9	116	160.9	46.7
-33	*11.4*	-36.1	17	16.4	-8.3	67	66.8	19.4	117	163.5	47.2
-32	*10.9*	-35.6	18	17.0	-7.8	68	68.2	20.0	118	166.0	47.8
-31	*10.4*	-35.0	19	17.7	-7.2	69	69.7	20.6	119	168.6	48.3
-30	*9.8*	-34.4	20	18.4	-6.7	70	71.1	21.1	120	171.2	48.9
-29	*9.3*	-33.9	21	19.1	-6.1	71	72.6	21.7	121	173.8	49.4
-28	*8.7*	-33.3	22	19.9	-5.6	72	74.1	22.2	122	176.5	50.0
-27	*8.1*	-32.8	23	20.6	-5.0	73	75.6	22.8	123	179.1	50.6
-26	*7.5*	-32.2	24	21.3	-4.4	74	77.1	23.3	124	181.8	51.1
-25	*6.9*	-31.7	25	22.1	-3.9	75	78.7	23.9	125	184.6	51.7
-24	*6.3*	-31.1	26	22.9	-3.3	76	80.2	24.4	126	187.4	52.2
-23	*5.7*	-30.6	27	23.7	-2.8	77	81.8	25.0	127	190.2	52.8
-22	*5.0*	-30.0	28	24.5	-2.2	78	83.4	25.6	128	193.0	53.3
-21	*4.3*	-29.4	29	25.3	-1.7	79	85.0	26.1	129	195.8	53.9
-20	*3.7*	-28.9	30	26.1	-1.1	80	86.7	26.7	130	198.7	54.4
-19	*3.0*	-28.3	31	26.9	-0.6	81	88.4	27.2	131	201.6	55.0
-18	*2.3*	-27.8	32	27.8	0.0	82	90.0	27.8	132	204.6	55.6
-17	*1.5*	-27.2	33	28.6	0.6	83	91.8	28.3	133	207.6	56.1
-16	*0.8*	-26.7	34	29.5	1.1	84	93.5	28.9	134	210.6	56.7
-15	*0.1*	-26.1	35	30.4	1.7	85	95.2	29.4	135	213.6	57.2
-14	0.4	-25.6	36	31.3	2.2	86	97.0	30.0	136	216.7	57.8
-13	0.7	-25.0	37	32.2	2.8	87	98.8	30.6	137	219.8	58.3
-12	1.1	-24.4	38	33.1	3.3	88	100.6	31.1	138	222.9	58.9
-11	1.5	-23.9	39	34.1	3.9	89	102.5	31.7	139	226.0	59.4
-10	1.9	-23.3	40	35.0	4.4	90	104.3	32.2	140	229.2	60.0
-9	2.4	-22.8	41	36.0	5.0	91	106.2	32.8	141	232.5	60.6
-8	2.8	-22.2	42	37.0	5.6	92	108.1	33.3	142	235.7	61.1
-7	3.2	-21.7	43	38.0	6.1	93	110.0	33.9	143	239.0	61.7
-6	3.6	-21.1	44	39.0	6.7	94	112.0	34.4	144	242.3	62.2
-5	4.1	-20.6	45	40.1	7.2	95	114.0	35.0	145	245.7	62.8
-4	4.6	-20.0	46	41.1	7.8	96	115.9	35.6	146	249.1	63.3
-3	5.0	-19.4	47	42.2	8.3	97	118.0	36.1	147	252.5	63.9
-2	5.5	-18.9	48	43.2	8.9	98	120.0	36.7	148	255.9	64.4
-1	6.0	-18.3	49	44.3	9.4	99	122.1	37.2	149	259.4	65.0
0	6.5	-17.8	50	45.4	10.0	100	124.2	37.8	150	262.9	65.6

**Red Italics Indicate Inches of Mercury Below Atmospheric Pressure*

Wine Cellar Information

Room Dimensions	Height: _____ ft., _____ in. Length: _____ ft., _____ in. Width: _____ ft., _____ in.	
Insulation R-values	Interior Walls: _____ Exterior Walls: _____ Ceiling: _____	
Vapor barrier? YES / NO		Glass windows and/or stone/concrete walls? YES / NO
Details: *Example*: **Two glass windows, one stone wall**		

☐ Airflow in and out of the **condenser** is clear of obstructions. **Condensing** unit supply and return ***must have a minimum of three feet*** of clearance. (Five feet is ideal.)

NOTE: All readings need to be taken while the compressor is running.

DATA RECORDINGS

☐ Airflow in and out of the **evaporator** is clear of obstructions. **Evaporator unit** supply and return ***must have a minimum of three feet*** of clearance. (Five feet is ideal.)

1.	**a.** Line set length:	**b.** Suction line installed tubing diameter OD:
	c. Liquid line installed tubing diameter OD:	
2.	Bottle probe has been connected to the evaporator unit and inserted into a wine bottle that is ¾ full? YES / NO **If no**, place the bottle probe in a warm bottle of water to ensure the compressor is running throughout the duration of the data recording.	
3.	Are there any visible bubbles in the sight glass with the system running? YES / NO **If yes,** add refrigerant to clear the sight glass. Ensure that the system is fully charged before taking data recordings.	
4.	**a.** Temp of return air entering evaporator coil (dry bulb):	**b.** Temp of supply air leaving unit (dry bulb):
	c. Temperature difference between return air and supply air (4a - 4b):	
5.	If the outside air temp is lower than 60°, a portion of the coil will need to be blocked to stabilize the condensing temp. at 130° psig. Is the coil blocked to raise the condensing temp? YES / NO	
6.	Temp of air entering the condensing unit:	
7.	**a.** Head pressure PSIG at the liquid line king valve:	**b.** Head pressure converted to temp:
8.	**a.** Temp of liquid line at the liquid line king valve:	**b.** Sub-cooling calculation (7b - 8a): (between 10-15 degrees of subcooling)
9.	**a.** Suction pressure PSIG at the suction service valve:	**b.** Suction pressure converted to temp:
10.	**a.** Temp of suction line at the service valve:	**b.** Superheat calculation (10 - 9b): (between 15-25 degrees of superheat)
11.	**a.** Voltage to compressor (running):	**b.** Amp draw at the time of data recording:
12.	Was a condensation drain test performed? YES / NO **If no,** pour water into the drain pan to verify that the unit is draining properly.	