

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: (Sticker is located on the grey plastic electrical box) |

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: <i>Example: Two glass windows, one stone wall</i> | | | |

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 $\frac{3}{4}$ 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 PSI 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 4-6 degrees of subcooling) |
| 9. | a. Suction pressure PSI 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 20-30 degrees of superheat) |
| 11. | Compressor crankcase temperature (bottom of compressor): | |
| 12. | a. Voltage to compressor (running): | b. Amp draw at the time of data recording: |
| 13. | Was a condensation drain test performed? YES / NO If no , pour water into the drain pan to verify that the unit is draining properly. | |