



### Checklist for Split System

Does your evaporator system (inside the cellar) have a decorative cover?	Yes	No
Check to see if your compressor is hot or cold. If hot, that means it is working, but if it's cold refrigerant may have pushed into the compressor.	Yes	No
Is the unit continually running?	Yes	No
Is your probe inserted into a bottle of water ?	Yes	No

### TECHNICIAN CHECKLIST

#### Checklist Before Startup

Check valves, are they back seated turning it a quarter or full turn clockwise.	Yes	No
<b><i>Check the settings on Jonson control.</i></b>		
Is the high pressure 150 pounds?	Yes	No
Is the low pressure 25 pounds?	Yes	No
Check the time delay. Is it set on a 5 minute delay?	Yes	No
Check the line set. Is it 1/2 inch all the way through? The line set size of 1/2 inch cannot be substituted.	Yes	No

### Checklist for Split System cont.

#### *Pressurize system with nitrogen.*

A. Check for leaks at the flair fittings and copper fitting brazes.	Pass	Fail
B. Be sure the system holds static pressure and doesn't leak down.	Pass	Fail
C. Set the head pressure control to 170-190 psig cut in with 50-70 psig differential.	Set	

#### *Evaporator*

A. Pour water into the condensate pan and verify proper drainage.	Pass	Fail
B. Be sure the suction line is insulated back to the exit of the evaporator.	Pass	Fail
C. Check for proper voltage (115 volts AC) to the evaporator unit.	Pass	Fail
D. Verify electrical connections as follows on the left side of terminal strip from the top to the bottom.	Pass	Fail
1. Ground connected to the 2nd setscrew from the top.	Yes	No
2. The hot line voltage in (L2). Connected to the 3rd setscrew from the top.	Yes	No
3. The neutral line in (L1). Connected to the 4th setscrew from the top.	Yes	No

#### *Condensing unit*

A. Check for proper voltage to the condensing unit (115v AC).	Pass	Fail
B. Verify wiring is proper.	Pass	Fail
1. Line voltage hot to terminal strip setscrew #2.	Yes	No
2. Line voltage neutral to terminal strip setscrew #3.	Yes	No
3. Ground to terminal setscrew #1.	Yes	No

#### **Checklist After Startup**

A. Verify amp draw of compressor to the name plate of the compressor.	Pass	Fail
B. Check suction pressure – should be 28 psig (32°F) at the evaporator or better. If suction is below 28 psig check the following:		
1. Is the head pressure above 120 psig?	Yes	No
2. Check for proper charge – sight glass clear of bubbles?	Yes	No
3. Is the condenser fan stuck on, causing a drop in the head pressure below 120 psig?	Yes	No

### Checklist for Split System cont.

4. Check the head pressure control and verify condenser fan off/on cycling.	Yes	No
5. Head pressure, control set to low? – Raise cut in pressure but do not exceed 190 psig. Verify setting on the gauge manifold set. Raise differential settings for proper head pressure control.	Yes	No
6. Head pressure ok but evaporator coil still running below 28 psig.	Yes	No
a. Adjust the TXV for proper feeding of refrigerant to achieve 28-32 psig.	Pass	Fail
b. Check for proper delta temperature across evaporator coil (10-13°F).	Pass	Fail

### Check for proper superheat and sub-cooling.

A. Superheat at the evaporator should be 5°- 15°.	Yes	No
B. Sub-cooling at the condenser should be 10°-20°F.	Yes	No
C. Liquid line/suction line $\Delta$ temperature at the condensing unit should be $\pm 40^\circ\text{F}$ .	Yes	No