



### Checklist for Split Systems

Does your evaporator system (inside the cellar) have a decorative cover?

Yes

No

Check to see if your compressor is hot or cold.

*If it's hot, that means it is working, but if it's cold, refrigerant may have entered the compressor.*

Yes

No

Is the unit continually running?

Yes

No

Is your probe inserted into a bottle of water?

Yes

No

### TECHNICIAN CHECKLIST

#### ***Before startup...***

Check to see whether valves are they back-seated, turning them a quarter-turn or a full turn clockwise.

Yes

No

#### ***Pressurize system with nitrogen.***

A. Check for leaks at the flare fittings and copper fitting brazes.

Pass

Fail

B. Be sure the system holds static pressure and doesn't leak down.

Pass

Fail

#### ***Prepare 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

### Checklist for Split Systems, cont.

#### ***Prepare condensing unit.***

A. Check for proper voltage to the condensing unit (115 volts AC).	Pass	Fail
--	------	------

#### ***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
4. 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 8-12°F. Total superheat (measured at the condenser) should be 20-30°F.	Yes	No
B. Sub-cooling at the condenser should be 5-8°F.	Yes	No

**NOTE:** Fan control varies depending on the age and version of the system.

\* This temperature (32°F) assumes normal operation of the unit with the wine cellar at 55°F and the ambient temperature at 85°F.