Parallel Evaporators

What about parallel evaporators on a split AC system with no liquid line solenoid valves or accumulators? Why does one coil freeze up and one doesn’t on extremely hot days? Does the liquid refrigerant migrate to the coolest spot in the system while system is off when the evaporator fan is left running? Should liquid line accumulators be installed indoors?

I have not seen too many AC systems running dual evaporators. I have seen one system if I remember correctly that had two evaporators with two condensers. The issue was poor overall cooling. When I checked the suction pressure there was floodback to the compressor. There was a TXV for each coil. The problem turned out to be the thermal bulbs were mounted to the wrong suction lines coming out of the evaporators.

Question from Greg Brune of Indianapolis, Indiana. Answer from Denny Martin, AM Technical Support/Product Line Manager, Embraco.

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