

May Troubleshooting Problem

QUESTION: After evaluating the system and taking pressure readings, what is the specific failure that is preventing this system from cooling properly?

ANSWER: The compressor is not pumping. We proved this when we employed a pressure/temperature chart, on which we would calculate that the high-side operating pressure should be at approximately 260 psig (90°F ambient + 30 for standard efficiency air-cooled condenser), and that the low-side pressure should be at approximately 70 psig (approximate 40° indoor coil). A lower-than-normal high-side pressure and a higher-than-normal low-side pressure prove that the compressor is unable to pull down properly on the low side and provide proper pressure on the high side.