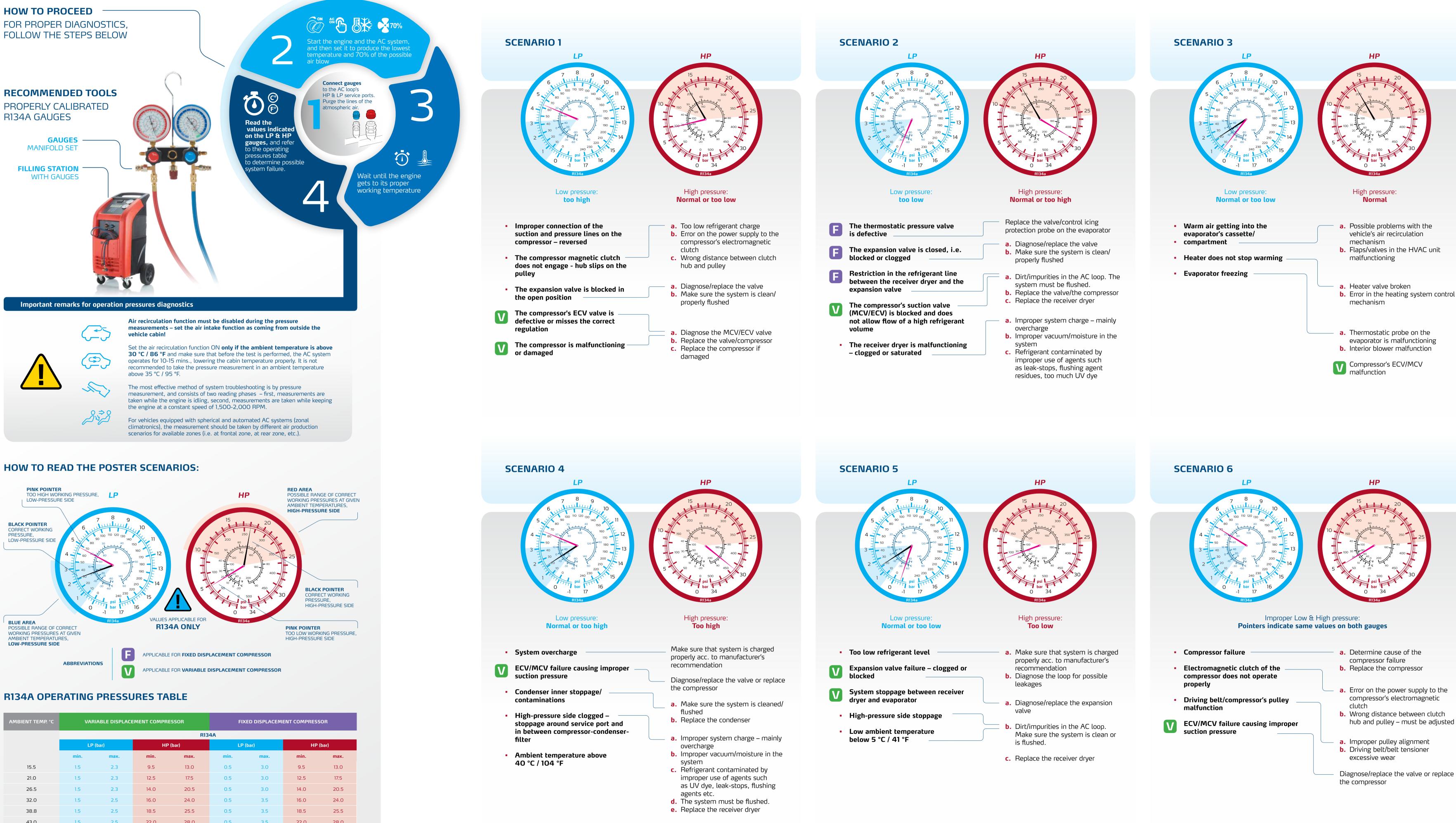
AC System Diagnostics - Operating Pressures R134A



| | | | | | FIXED DISPERCEMENT COMPRESSOR | | | |
|------|----------|------|----------|------|-------------------------------|------|----------|------|
| | R134A | | | | | | | |
| | LP (bar) | | HP (bar) | | LP (bar) | | HP (bar) | |
| | min. | max. | min. | max. | min. | max. | min. | max. |
| 15.5 | 1.5 | 2.3 | 9.5 | 13.0 | 0.5 | 3.0 | 9.5 | 13.0 |
| 21.0 | 1.5 | 2.3 | 12.5 | 17.5 | 0.5 | 3.0 | 12.5 | 17.5 |
| 26.5 | 1.5 | 2.3 | 14.0 | 20.5 | 0.5 | 3.0 | 14.0 | 20.5 |
| 32.0 | 1.5 | 2.5 | 16.0 | 24.0 | 0.5 | 3.5 | 16.0 | 24.0 |
| 38.8 | 1.5 | 2.5 | 18.5 | 25.5 | 0.5 | 3.5 | 18.5 | 25.5 |
| 43.0 | 1.5 | 2.5 | 22.0 | 28.0 | 0.5 | 3.5 | 22.0 | 28.0 |
| | | | | | | | | |





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Working pressures diagnostics method is an easy and cost effective way to determine major AC system problems. However, to perform the right measurements, the system must be in operational condition. This requires a correct level of refrigerant charge (at least 1,5/25 PSI to run the compressor). Before the vehicle is started, the static system pressure should be read. Pressure values should be very nearly equal on both LP and HP gauges. The actual static pressure will depend on the ambient temperature. To ensure it is on the right level, refer to a static pressures table applicable for R134A refrigerant (N.B. not shown on this poster). A low static pressure means a too low system charge, indicating a leak that must be found and repaired. Bear in mind, that an average AC system loses up to 50 grams/2 oz. of refrigerant per year.



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