AC System Diagnostics - Loop Components Temperature

EXPANSION VALVE DIRECTLY ON THE UNIT 2-5 °C 35-41 °F ABOVE 10 °C ′ 50 °F **POTENTIAL CAUSES** Lack of or improper compressor lubrication Lack of condenser fins / fins deteriorated Restricted flow inside the condenser • Restricted flow inside the receiver drier Fan not running Fan too slow Improper / contaminated refrigerant • Too high / low refrigerant level **COMPRESSOR SUCTION LINE EVAPORATOR - COMPRESSOR** 5-15 °C 41-59 °F BELOW 5 °C **POTENTIAL CAUSES** • Faulty expansion device • Freezing low pressure hose Low refrigerant level

- Leakage in the loop Contamination
- Compressor overload (speed)

RECEIVER DRIER

DIRECTLY ON THE UNIT

CONDENSER - RECEIVER DRIER CONDENSER TO RECEIVER DRIER LINE

> **30-50 °C** 86-122 °F

ABOVE 50 °C ⁷ 122 °F

POTENTIAL CAUSES

- Lack of lubrication • Too much UV dye removing the oil film
- Fans not running • Fans not running at all speeds
- Blockage of the condenser inside
- Fins corroded by salt & water
- Too much refrigerant in the AC system
- Contaminated refrigerant • Nitrogen/ Air in the AC system
- Blocked filter drier
- Blocked expansion valve
- Compressor running all the time





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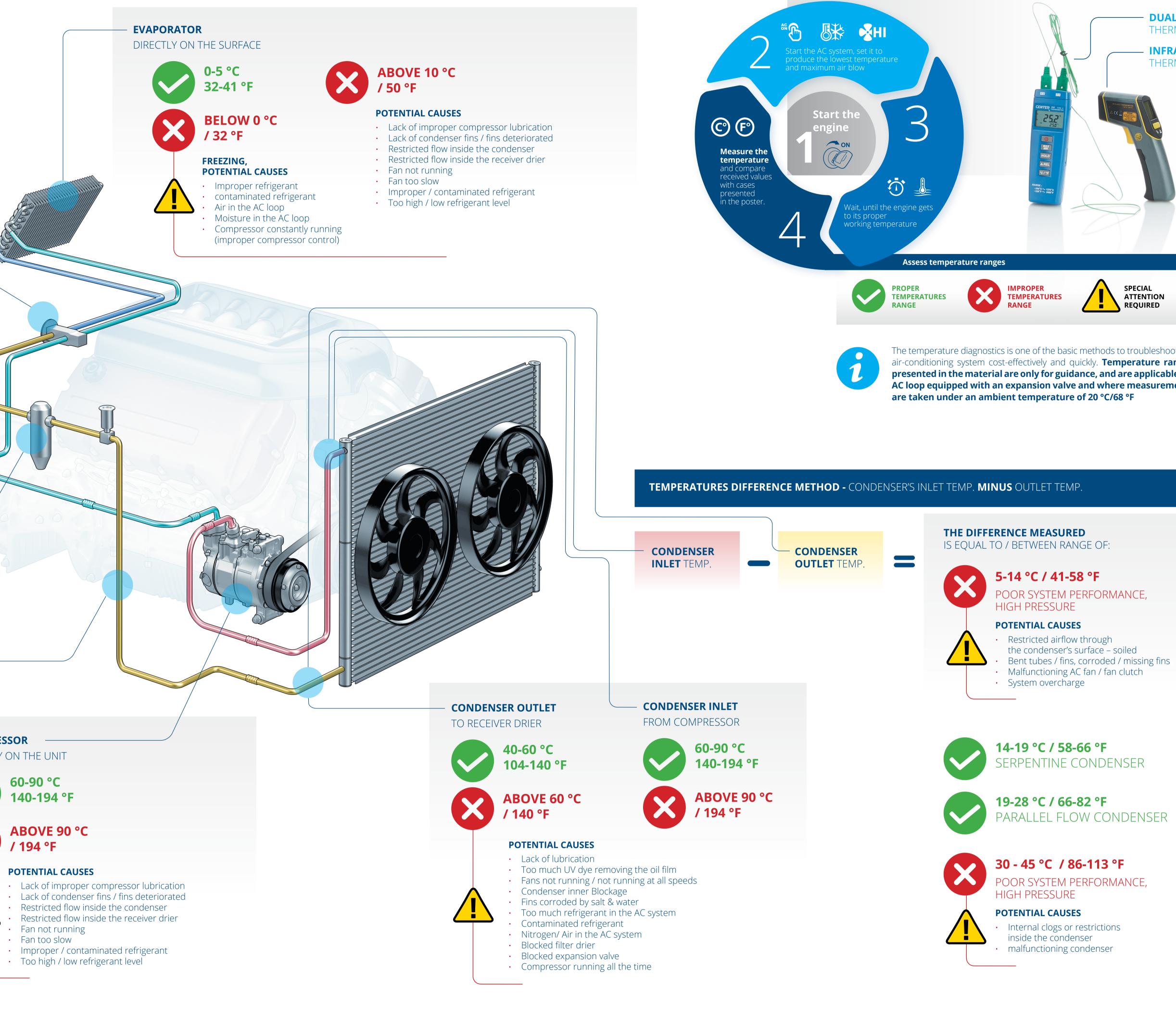


ABOVE 90 °C / 194 °F

60-90 °C

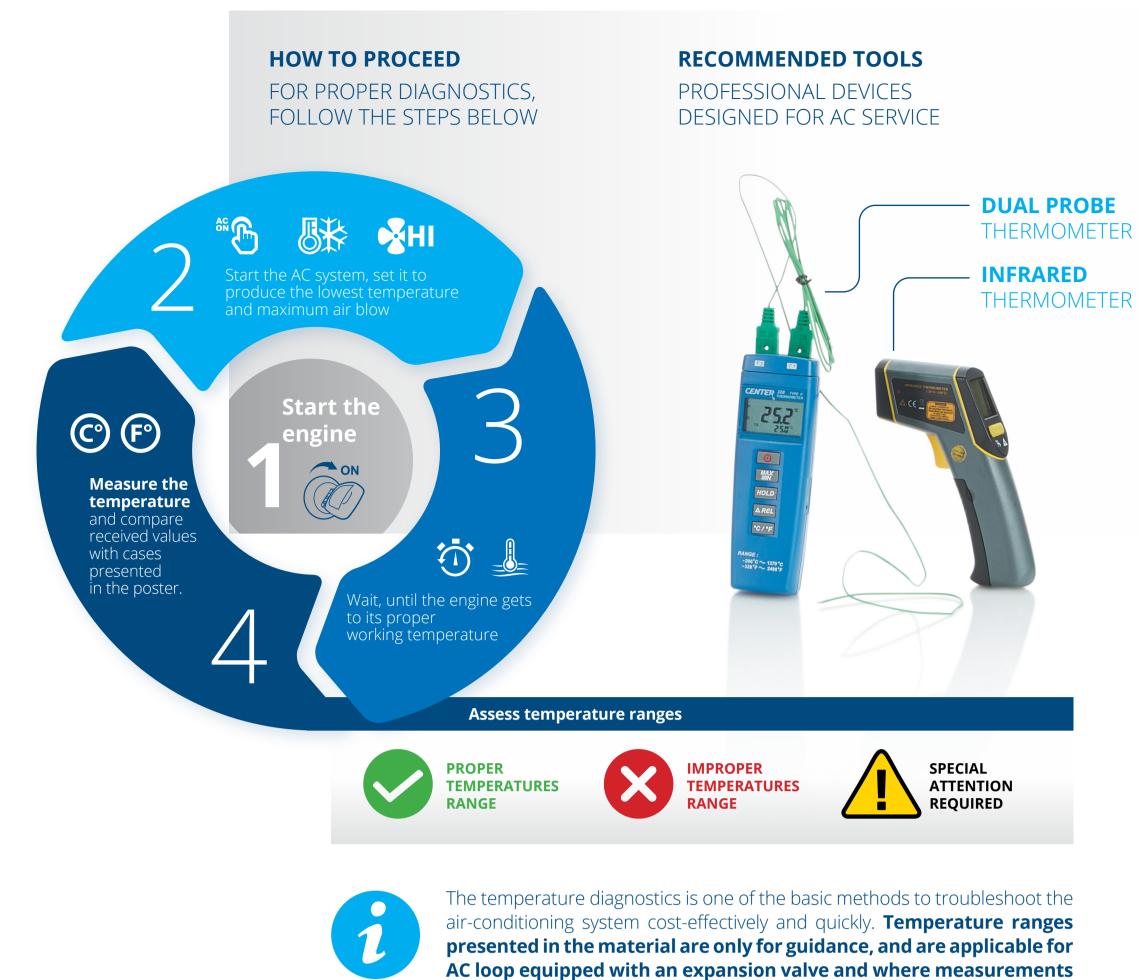


Fan not running Fan too slow



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