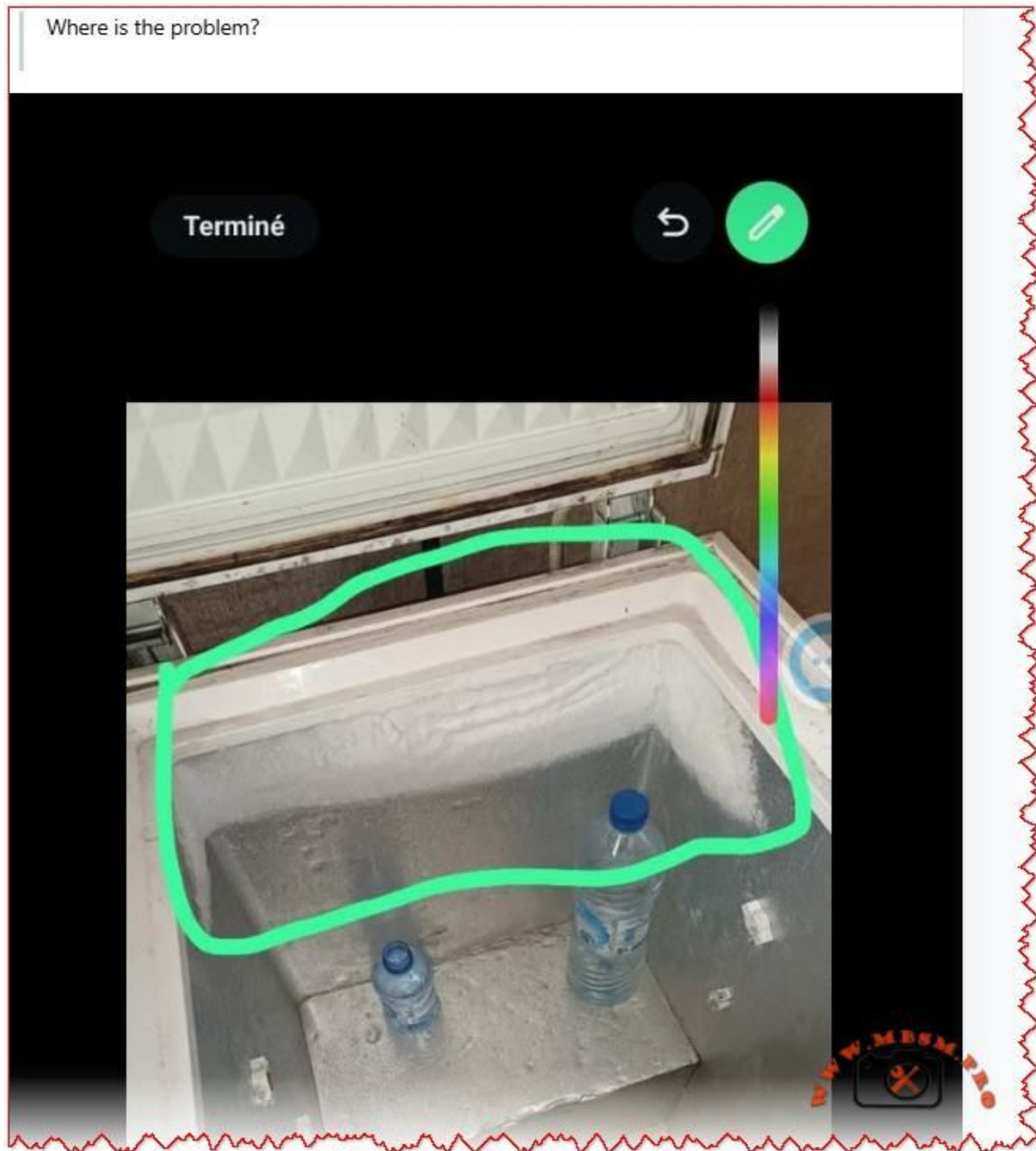


# The 5 Pillars of Refrigeration Diagnosis: Professional HVAC

Category: Refrigeration

written by [www.mbsm.pro](http://www.mbsm.pro) | 11 January 2026



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Professional HVAC technicians rely on five critical diagnostic pillars: suction pressure, discharge pressure, superheat, subcooling, and saturation temperature relationships. Mastering these five measurements eliminates guesswork, accurately identifies refrigeration problems, and ensures proper system troubleshooting without expensive callbacks or equipment damage.

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# LG Inverter AC Error Codes: Indoor and Outdoor Unit Professional Guide

Category: air conditioner

written by [www.mbsm.pro](http://www.mbsm.pro) | 11 January 2026



Model: Inverter AC

Indoor Unit

| ERROR CODE | DISCRIPTION  |
|------------|--|
| 1          | Indoor unit room temperature sensor error            |
| 2          | Indoor unit inlet pipe sensor error                  |
| 3          | Wired remote control error                           |
| 4          | Float switch error                                   |
| 5          | Communication error between indoor and outdoor units |
| 6          | Indoor unit outlet pipe sensor error                 |
| 9          | Indoor unit EEPROM error                             |
| 10         | Indoor unit BLDC fan motor lock                      |
| 12         | Indoor unit middle pipe sensor error                 |

Outdoor Unit

| ERROR CODE | DISCRIPTION  |
|------------|--|
| 21         | DC Peack (IPM) fault                                 |
| 22         | CT2 (Max CT)   |
| 23         | DC link low voltage                                  |
| 26         | DC Comp position error                               |
| 27         | PSC fault  |
| 29         | Comp phase over current                              |
| 32         | Inverter compressor D pipe overheat                  |
| 34         | High pressure sensor high                            |
| 35         | Low pressure sensor low                              |
| 36/38      | Refrigerant leak detection                           |
| 37         | Exceed the compression ration limit                  |
| 40         | CT sensor error                                      |
| 41         | Discharge pipe sensor error                          |
| 42         | Low pressure sensor error                            |
| 43         | High presure sensor error                            |
| 44         | Outdoor air sensor error                             |
| 45         | Cond middle pipe sensor Error                        |
| 46         | Suction pipe sensor Error                            |
| 51         | Excess capacity ( Mismatch between IDU and odu unit) |
| 53         | Communication error                                  |
| 61         | Cond. Pipe high                                      |
| 62         | Heat sink sensor temp. High                          |



|    |                                     |
|----|-------------------------------------|
| 67 | BLDC motor fan lock                 |
| 72 | Detect 4 way valve transfer failure |
| 93 | Communication error                 |

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LG inverter air conditioner error codes give technicians a precise window into what is happening inside both indoor and outdoor units. From simple room

temperature sensor faults to complex IPM and DC peak alarms, decoding these numbers correctly is critical for fast, safe, and accurate HVAC troubleshooting on modern LG split systems.

## Carrier Pro-Dialog+

Category: Equipment

written by [www.mbsm.pro](http://www.mbsm.pro) | 11 January 2026












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Carrier Pro-Dialog+ Tripout shutdown alarm, access denied message and troubleshooting steps by Mbsmgroup

# Refrigerants, Standing, Suction and Discharge Pressures for Modern HVAC Systems

Category: Refrigeration

written by [www.mbsm.pro](http://www.mbsm.pro) | 11 January 2026

| List of some Common Refrigerants                            |   |                   |                  |                    |                     |                 |
|---|---|-------------------|------------------|--------------------|---------------------|-----------------|
| Standing, Suction, Discharge Pressure & Boiling Temperature |   |                   |                  |                    |                     |                 |
| Refrigerant Name  | Cylinder Colour Code  | Standing Pressure | Suction Pressure | Discharge Pressure | Boiling Point Temp. | Replacement For |
| R22   |    | 150-155 psi       | 60-70 psi        | 250-300 psi        | -40.8°C             | R11             |
|   |   | 1034.2-1068.6 kPa | 413.7-482.6 kPa  | 1723.6-2068.4 kPa  |                     |                 |
| R134A   |    | 80-95 psi         | 12-15 psi        | 150 psi            | -26.2°C             | R12             |
|   |   | 551.5-655 kPa     | 82.7-103.4 kPa   | 1034.2 kPa         |                     |                 |
| R600A   |    | 40-50 psi         | Below 0-1 psi    | 150 psi            | -11.7°C             |                 |
|   |   | 275.8-344.7 kPa   | Below 0-6.8 kPa  | 1034.2 kPa         |                     |                 |
| R32   |   | 240-245 psi       | 110-115 psi      | 175-375 psi        | -52.0°C             |                 |
|   |   | 1654.7-1689.2 kPa | 758.4-792.9 kPa  | 1206.6-2585.5 kPa  |                     |                 |
| R290  |  | 125-130 psi       | 65-70 psi        | 275-300 psi        | -42.1°C             |                 |
|   |   | 861.8-896.3 kPa   | 448.2-482.6 kPa  | 1896-2068.4 kPa    |                     |                 |
| R407C   |  | 180-185 psi       | 75-80 psi        | 275-300 psi        | -45.0°C             | R22             |
|   |   | 1241-1275.5 kPa   | 517.1-551.6 kPa  | 1896-2068.4 kPa    |                     |                 |
| R404A   |  | 180-185 psi       | 80-90 psi        | 275-300 psi        | -46.2°C             | R502            |
|   |   | 1241-1275.5 kPa   | 551.6-620.5 kPa  | 1896-2068.4 kPa    |                     |                 |
| R410a   |  | 225-230 psi       | 120-130 psi      | 450-500 psi        | -51.4°C             | R22             |
|   |   | 1551.3-1585.8 kPa | 827.4-896.3 kPa  | 3102.6-3447.4 kPa  |                     |                 |
| R417  |  | 140 psi           | 65 psi           | 261 psi            | -39.0°C             | R22             |
|   |   | 965.3 kPa         | 488.2k Pa        | 1799.5 kPa         |                     |                 |

1Bar = 100kPa or 14.5 psi

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Explore a practical refrigerant pressure chart with typical standing, suction and discharge pressures plus boiling points for R22, R134a, R32, R404A, R407C, R410A, R290, R600a and R417A.