



REFRIGERANT RELATED DIAGNOSTIC SUPPORT

SUPERHEAT - USE DEW COLUMN SUBCOOLING - USE BUBBLE COLUMN
BOLD ITALICS - IN. HG

| | HOT SHOT | R-12 | R-134a | R-500 | NU-22B | R-22 | R-407C | R-417A | R-410A | |
|-----|---------------|-------|--------|-------|--------|---------------|--------|--------|---------------|---------------|
| | Dew | | | | Dew | | Dew | Dew | Dew | |
| °F | PSIG | PSIG | PSIG | PSIG | PSIG | PSIG | PSIG | PSIG | PSIG | |
| -50 | * | * | * | * | * | * | * | * | * | |
| -48 | * | * | * | * | * | * | * | * | * | |
| -46 | * | * | * | * | * | * | * | * | * | |
| -44 | * | * | * | * | * | * | * | * | * | |
| -42 | * | * | * | * | * | * | * | * | * | |
| -40 | * | * | * | * | * | 0.6 | * | * | 10.7 | |
| -38 | * | * | * | * | * | 1.4 | * | * | 12.0 | |
| -36 | * | * | * | * | * | 2.2 | * | * | 13.3 | |
| -34 | * | * | * | * | * | 3.1 | * | * | 14.7 | |
| -32 | * | * | * | * | * | 4.0 | * | * | 16.2 | |
| -30 | * | * | * | * | 1.0 | 4.9 | * | * | 17.7 | |
| -28 | * | * | * | * | 1.9 | 5.9 | 2.5 | 0.7 | 19.3 | |
| -26 | * | * | * | * | 2.8 | 6.9 | 3.4 | 1.5 | 20.9 | |
| -24 | * | * | * | * | 3.7 | 8.0 | 4.4 | 2.4 | 22.6 | |
| -22 | * | * | * | * | 4.7 | 9.1 | 5.4 | 3.3 | 24.4 | |
| -20 | 5.7 | 0.5 | * | 3.3 | 5.7 | 10.2 | 6.5 | 4.2 | 26.2 | |
| -18 | 4.3 | 1.3 | * | 4.2 | 6.7 | 11.4 | 7.5 | 5.2 | 28.1 | |
| -16 | 3.0 | 2.0 | * | 5.1 | 7.8 | 12.6 | 8.7 | 6.2 | 30.0 | |
| -14 | 1.6 | 2.8 | 0.3 | 6.0 | 8.9 | 13.9 | 9.9 | 7.3 | 32.0 | |
| -12 | 0.2 | 3.6 | 1.1 | 6.9 | 10.1 | 15.2 | 11.1 | 8.4 | 34.1 | |
| -10 | 0.7 | 4.5 | 1.9 | 7.9 | 11.3 | 16.5 | 12.3 | 9.5 | 36.3 | |
| -8 | 1.4 | 5.3 | 2.8 | 9.0 | 12.5 | 17.9 | 13.7 | 10.7 | 38.5 | |
| -6 | 2.2 | 6.2 | 3.6 | 10.0 | 13.8 | 19.4 | 15.0 | 11.9 | 40.8 | |
| -4 | 3.1 | 7.2 | 4.6 | 11.1 | 15.2 | 20.9 | 16.4 | 13.2 | 43.2 | |
| -2 | 4.0 | 8.1 | 5.5 | 12.3 | 16.6 | 22.4 | 17.9 | 14.5 | 45.7 | |
| 0 | 4.9 | 9.1 | 6.5 | 13.4 | 18.0 | 24.0 | 19.4 | 15.9 | 48.2 | |
| 2 | 5.8 | 10.1 | 7.5 | 14.6 | 19.5 | 25.7 | 21.0 | 17.3 | 50.8 | |
| 4 | 6.8 | 11.2 | 8.5 | 15.9 | 21.1 | 27.4 | 22.6 | 18.7 | 53.5 | |
| 6 | 7.8 | 12.3 | 9.6 | 17.2 | 22.7 | 29.1 | 24.3 | 20.3 | 56.3 | |
| 8 | 8.8 | 13.4 | 10.8 | 18.5 | 24.3 | 31.0 | 26.1 | 21.8 | 59.2 | |
| 10 | 9.9 | 14.6 | 11.9 | 19.9 | 26.1 | 32.8 | 27.9 | 23.4 | 62.2 | |
| 12 | 11.0 | 15.8 | 13.1 | 21.3 | 27.8 | 34.8 | 29.7 | 25.1 | 65.2 | |
| 14 | 12.1 | 17.0 | 14.4 | 22.8 | 29.7 | 36.8 | 31.7 | 26.8 | 68.4 | |
| 16 | 13.3 | 18.3 | 15.7 | 24.3 | 31.6 | 38.8 | 33.7 | 28.6 | 71.6 | |
| 18 | 14.6 | 19.6 | 17.0 | 25.8 | 33.5 | 40.9 | 35.7 | 30.5 | 74.9 | |
| 20 | 15.8 | 21.0 | 18.4 | 27.4 | 35.5 | 43.1 | 37.9 | 32.4 | 78.4 | |
| 22 | 17.2 | 22.4 | 19.9 | 29.1 | 37.6 | 45.3 | 40.1 | 34.3 | 81.9 | |
| 24 | 18.5 | 23.8 | 21.3 | 30.8 | 39.7 | 47.6 | 42.3 | 36.4 | 85.5 | |
| 26 | 19.9 | 25.3 | 22.9 | 32.5 | 41.9 | 50.0 | 44.7 | 38.5 | 89.2 | |
| 28 | 21.4 | 26.8 | 24.5 | 34.3 | 44.2 | 52.4 | 47.1 | 40.6 | 93.1 | |
| 30 | 22.9 | 28.4 | 26.1 | 36.2 | 46.6 | 55.0 | 49.6 | 42.8 | 97.0 | |
| 32 | 24.4 | 30.0 | 27.8 | 38.1 | 49.0 | 57.5 | 52.1 | 45.1 | 101.1 | |
| 34 | 26.0 | 31.6 | 29.5 | 40.0 | 51.5 | 60.2 | 54.8 | 47.5 | 105.2 | |
| 36 | 27.7 | 33.3 | 31.3 | 42.0 | 54.0 | 62.9 | 57.5 | 49.9 | 109.5 | |
| 38 | 29.4 | 35.1 | 33.1 | 44.1 | 56.6 | 65.7 | 60.3 | 52.4 | 113.9 | |
| 40 | 31.1 | 36.9 | 35.0 | 46.2 | 59.3 | 68.6 | 63.2 | 55.0 | 118.4 | |
| 42 | 32.9 | 38.7 | 37.0 | 48.4 | 62.1 | 71.5 | 66.1 | 57.6 | 123.0 | |
| 44 | 34.8 | 40.6 | 39.0 | 50.6 | 65.0 | 74.5 | 69.2 | 60.3 | 127.7 | |
| 46 | 36.7 | 42.6 | 41.1 | 52.9 | 67.9 | 77.6 | 72.3 | 63.1 | 132.6 | |
| 48 | 38.6 | 44.6 | 43.2 | 55.3 | 71.0 | 80.8 | 75.5 | 66.0 | 137.5 | |
| 50 | 40.6 | 46.6 | 45.4 | 57.7 | 74.1 | 84.1 | 78.8 | 68.9 | 142.6 | |
| | Bubble | | | | | Bubble | | | Bubble | Bubble |
| °F | PSIG | PSIG | PSIG | PSIG | PSIG | PSIG | PSIG | PSIG | PSIG | |
| 60 | 69.0 | 57.6 | 57.4 | 70.9 | 103.0 | 101.6 | 117.9 | 94.8 | 170.7 | |
| 62 | 71.7 | 60.0 | 60.0 | 73.7 | 106.8 | 105.4 | 122.3 | 98.4 | 176.6 | |
| 64 | 74.6 | 62.4 | 62.7 | 76.6 | 110.7 | 109.3 | 126.7 | 102.1 | 182.7 | |
| 66 | 77.5 | 64.9 | 65.4 | 79.5 | 114.7 | 113.2 | 131.2 | 105.8 | 188.9 | |
| 68 | 80.4 | 67.5 | 68.2 | 82.6 | 118.8 | 117.3 | 135.8 | 109.7 | 195.3 | |
| 70 | 83.5 | 70.1 | 71.1 | 85.7 | 123.0 | 121.4 | 140.5 | 113.6 | 201.8 | |
| 72 | 86.6 | 72.7 | 74.1 | 88.8 | 127.2 | 125.7 | 145.4 | 117.7 | 208.4 | |
| 74 | 89.7 | 75.4 | 77.1 | 92.1 | 131.6 | 130.0 | 150.3 | 121.8 | 215.2 | |
| 76 | 93.0 | 78.2 | 80.2 | 95.4 | 136.1 | 134.5 | 155.4 | 126.0 | 222.2 | |
| 78 | 96.3 | 81.1 | 83.4 | 98.8 | 140.7 | 139.0 | 160.5 | 130.4 | 229.3 | |
| 80 | 99.7 | 84.0 | 86.7 | 102.2 | 145.3 | 143.6 | 165.8 | 134.8 | 236.5 | |
| 82 | 103.2 | 87.0 | 90.0 | 105.8 | 150.1 | 148.4 | 171.2 | 139.3 | 244.0 | |
| 84 | 106.7 | 90.0 | 93.5 | 109.4 | 155.0 | 153.2 | 176.8 | 144.0 | 251.6 | |
| 86 | 110.4 | 93.2 | 97.0 | 113.1 | 160.0 | 158.2 | 182.4 | 148.7 | 259.3 | |
| 88 | 114.1 | 96.3 | 100.6 | 116.9 | 165.1 | 163.2 | 188.2 | 153.5 | 267.3 | |
| 90 | 117.9 | 99.6 | 104.3 | 120.8 | 170.4 | 168.4 | 194.1 | 158.5 | 275.4 | |
| 92 | 121.7 | 102.9 | 108.1 | 124.7 | 175.7 | 173.7 | 200.1 | 163.5 | 283.6 | |
| 94 | 125.7 | 106.3 | 112.0 | 128.7 | 181.1 | 179.1 | 206.3 | 168.7 | 292.1 | |
| 96 | 129.7 | 109.8 | 115.9 | 132.9 | 186.7 | 184.6 | 212.5 | 173.9 | 300.7 | |
| 98 | 133.8 | 113.3 | 120.0 | 137.1 | 192.4 | 190.2 | 219.0 | 179.3 | 309.5 | |
| 100 | 138.0 | 116.9 | 124.2 | 141.4 | 198.2 | 195.9 | 225.5 | 184.8 | 318.5 | |
| 102 | 142.3 | 120.6 | 128.4 | 145.8 | 204.1 | 201.8 | 232.2 | 190.4 | 327.7 | |
| 104 | 146.7 | 124.4 | 132.7 | 150.2 | 210.1 | 207.7 | 239.0 | 196.1 | 337.1 | |
| 106 | 151.2 | 128.2 | 137.2 | 154.8 | 216.3 | 213.8 | 245.9 | 202.0 | 346.7 | |
| 108 | 155.7 | 132.1 | 141.7 | 159.5 | 222.6 | 220.0 | 253.0 | 207.9 | 356.5 | |
| 110 | 160.4 | 136.1 | 146.4 | 164.2 | 229.0 | 226.4 | 260.3 | 214.0 | 366.4 | |
| 112 | 165.1 | 140.2 | 151.1 | 169.1 | 235.6 | 232.8 | 267.6 | 220.2 | 376.6 | |
| 114 | 169.9 | 144.3 | 156.0 | 174.0 | 242.2 | 239.4 | 275.1 | 226.6 | 387.0 | |
| 116 | 174.9 | 148.6 | 160.9 | 179.1 | 249.0 | 246.1 | 282.8 | 233.0 | 397.6 | |
| 118 | 179.9 | 152.9 | 166.0 | 184.2 | 256.0 | 253.0 | 290.6 | 239.6 | 408.4 | |
| 120 | 185.0 | 157.3 | 171.2 | 189.4 | 263.1 | 260.0 | 298.6 | 246.3 | 419.4 | |
| 125 | 198.2 | 168.6 | 184.6 | 203.0 | 281.4 | 278.0 | 319.2 | 263.7 | 447.9 | |
| 130 | 212.0 | 180.5 | 198.7 | 217.2 | 300.6 | 296.9 | 340.7 | 282.0 | 477.9 | |
| 135 | 226.5 | 193.0 | 213.6 | 232.1 | 320.7 | 316.7 | 363.3 | 301.1 | * | |
| 140 | 241.7 | 206.0 | 229.2 | 247.7 | 341.8 | 337.4 | 387.0 | 321.1 | * | |
| 145 | 257.5 | 219.7 | 245.7 | 264.0 | 363.9 | 359.0 | 411.7 | 342.1 | * | |
| 150 | 274.0 | 233.9 | 262.9 | 281.0 | 387.0 | 381.7 | 437.5 | 364.1 | * | |

WEIGHTS OF REFRIGERANT LBS/100 LINEAL FEET

**STARTING CHARGE PERCENTAGES (%)
CONFIRM SUBCOOLING AND SUPERHEAT**

| | |
|-----------------|---------------------|
| HOT SHOT | ONE SHOT®(C) |
| R12 80 | R502 95 |
| R134a 90 | R22 97 |
| R500 100 | R402A 100 |
| | R402B 100 |
| | R404A 110 |
| NU22B 95 | R408A 108 |
| R22 95 | R507A 109 |
| R407C 98 | R422A 100 |

| Line Size O.D. in. | ICOR | | | | Liquid/Hot Gas | | | | Suction | | | |
|-----------------------|-------------|--------|------|------|----------------|-------------|------------|--------|---------|-------|-------------|--|
| | Refrigerant | Line | Line | Line | Line | Temperature | Line | Line | Line | Line | Temperature | |
| 3/8 | HOT SHOT | 3.44 | 0.14 | 0.02 | 0°F | 1 5/8 | HOT SHOT | 79.20 | 3.32 | 0.62 | 0°F | |
| | NU-22B | 3.71 | 0.21 | 0.07 | 40°F | | NU-22B | 85.50 | 4.71 | 1.79 | 40°F | |
| | ONE SHOT®C | 3.72 | 0.30 | 0.03 | -40°F | | ONE SHOT®C | 84.96 | 6.74 | 0.56 | -40°F | |
| 1/2 | HOT SHOT | 6.48 | 0.27 | 0.05 | 0°F | 2 1/8 | HOT SHOT | 137.60 | 5.78 | 1.06 | 0°F | |
| | NU-22B | 7.03 | 0.39 | 0.14 | 40°F | | NU-22B | 148.20 | 8.18 | 3.10 | 40°F | |
| | ONE SHOT®C | 6.98 | 0.54 | 0.04 | -40°F | | ONE SHOT®C | 147.01 | 11.68 | 0.99 | -40°F | |
| 5/8 | HOT SHOT | 10.32 | 0.43 | 0.08 | 0°F | 2 5/8 | HOT SHOT | 212.80 | 8.91 | 1.65 | 0°F | |
| | NU-22B | 11.21 | 0.62 | 0.24 | 40°F | | NU-22B | 228.95 | 13.02 | 4.78 | 40°F | |
| | ONE SHOT®C | 11.171 | 0.88 | 0.08 | -40°F | | ONE SHOT®C | 227.07 | 18.05 | 1.52 | -40°F | |
| 7/8 | HOT SHOT | 21.52 | 0.90 | 0.17 | 0°F | 3 1/8 | HOT SHOT | 303.20 | 12.72 | 2.35 | 0°F | |
| | NU-22B | 22.94 | 1.48 | 0.42 | 40°F | | NU-22B | 328.80 | 18.00 | 6.82 | 40°F | |
| | ONE SHOT®C | 23.081 | 1.83 | 0.15 | -40°F | | ONE SHOT®C | 324.78 | 25.80 | 2.17 | -40°F | |
| 1 1/8 | HOT SHOT | 36.72 | 1.54 | 0.29 | 0°F | 3 5/8 | HOT SHOT | 410.40 | 17.22 | 3.18 | 0°F | |
| | NU-22B | 39.52 | 2.19 | 0.83 | 40°F | | NU-22B | 441.75 | 24.32 | 9.25 | 40°F | |
| | ONE SHOT®C | 39.36 | 3.12 | 0.26 | -40°F | | ONE SHOT®C | 439.24 | 34.83 | 2.93 | -40°F | |
| 1 3/8 | HOT SHOT | 55.92 | 2.34 | 0.43 | 0°F | 4 1/8 | HOT SHOT | 532.80 | 22.37 | 4.14 | 0°F | |
| | NU-22B | 60.37 | 3.33 | 1.26 | 40°F | | NU-22B | 574.75 | 31.73 | 12.07 | 40°F | |
| | ONE SHOT®C | 59.93 | 4.75 | 0.40 | -40°F | | ONE SHOT®C | 527.34 | 45.39 | 3.83 | -40°F | |

Approximate Weight Of Refrigerant In Copper Lines During Operation
Pounds Per 100 Lineal Feet Of Type "L" Tubing



REFRIGERANT RELATED DIAGNOSTIC SUPPORT

SUPERHEAT - USE DEW COLUMN SUBCOOLING - USE BUBBLE COLUMN
BOLD ITALICS - IN. HG

| | ONE SHOT®(C) | R-502 | R-404A | R-507A | R-408A | R-402A | R-402B | R-422A | R-717 |
|-----|--------------|-------|--------|--------|--------|--------|--------|--------|-------------|
| | Dew | Dew | Dew | Dew | Dew | Dew | Dew | Dew | |
| °F | PSIG | PSIG | PSIG | PSIG | PSIG | PSIG | PSIG | PSIG | PSIG |
| -50 | * | * | * | 0.9 | * | 1.1 | * | * | 14.3 |
| -48 | * | 0.3 | 0.7 | 1.7 | * | 1.9 | 0.3 | * | 13.3 |
| -46 | * | 1.1 | 1.6 | 2.6 | 0.6 | 2.8 | 1.1 | 0.5 | 12.3 |
| -44 | 0.5 | 2.0 | 2.4 | 3.5 | 1.4 | 3.7 | 1.9 | 1.3 | 11.2 |
| -42 | 1.3 | 2.8 | 3.4 | 4.4 | 2.2 | 4.7 | 2.8 | 2.2 | 10.0 |
| -40 | 2.2 | 3.7 | 4.3 | 5.4 | 3.1 | 5.7 | 3.7 | 3.1 | 8.8 |
| -38 | 3.1 | 4.6 | 5.3 | 6.4 | 4.0 | 6.8 | 4.7 | 4.1 | 7.5 |
| -36 | 4.0 | 5.6 | 6.3 | 7.5 | 5.0 | 7.8 | 5.7 | 5.1 | 6.1 |
| -34 | 5.0 | 6.6 | 7.4 | 8.6 | 5.9 | 9.0 | 6.7 | 6.1 | 4.7 |
| -32 | 6.1 | 7.7 | 8.5 | 9.8 | 7.0 | 10.1 | 7.8 | 7.2 | 3.2 |
| -30 | 7.1 | 8.7 | 9.6 | 10.9 | 8.0 | 11.4 | 8.9 | 8.3 | 1.6 |
| -28 | 8.3 | 9.8 | 10.8 | 12.2 | 9.1 | 12.6 | 10.1 | 9.5 | 0.0 |
| -26 | 9.4 | 11.0 | 12.0 | 13.5 | 10.3 | 13.9 | 11.3 | 10.7 | 0.8 |
| -24 | 10.6 | 12.2 | 13.3 | 14.8 | 11.5 | 15.3 | 12.5 | 11.9 | 1.7 |
| -22 | 11.9 | 13.5 | 14.6 | 16.2 | 12.7 | 16.7 | 13.8 | 13.2 | 2.6 |
| -20 | 13.2 | 14.7 | 16.0 | 17.6 | 14.0 | 18.2 | 15.1 | 14.6 | 3.6 |
| -18 | 14.5 | 16.1 | 17.4 | 19.1 | 15.3 | 19.7 | 16.5 | 16.0 | 4.6 |
| -16 | 15.9 | 17.4 | 18.9 | 20.6 | 16.7 | 21.2 | 18.0 | 17.4 | 5.6 |
| -14 | 17.3 | 18.9 | 20.4 | 22.2 | 18.1 | 22.9 | 19.4 | 18.9 | 6.7 |
| -12 | 18.8 | 20.3 | 22.0 | 23.8 | 19.6 | 24.5 | 21.0 | 20.5 | 7.8 |
| -10 | 20.4 | 21.9 | 23.6 | 25.5 | 21.1 | 26.3 | 22.6 | 22.1 | 9.0 |
| -8 | 22.0 | 23.4 | 25.3 | 27.2 | 22.7 | 28.0 | 24.2 | 23.7 | 10.3 |
| -6 | 23.7 | 25.1 | 27.0 | 29.0 | 24.3 | 29.9 | 25.9 | 25.4 | 11.5 |
| -4 | 25.4 | 26.7 | 28.8 | 30.9 | 26.0 | 31.8 | 27.7 | 27.2 | 12.9 |
| -2 | 27.1 | 28.4 | 30.7 | 32.8 | 27.7 | 33.8 | 29.5 | 29.0 | 14.3 |
| 0 | 29.0 | 30.2 | 32.6 | 34.8 | 29.5 | 35.8 | 31.4 | 30.9 | 15.7 |
| 2 | 30.9 | 32.1 | 34.6 | 36.8 | 31.3 | 37.9 | 33.3 | 32.9 | 17.2 |
| 4 | 32.8 | 34.0 | 36.6 | 38.9 | 33.2 | 40.0 | 35.3 | 34.9 | 18.8 |
| 6 | 34.8 | 35.9 | 38.7 | 41.1 | 35.2 | 42.3 | 37.3 | 37.0 | 20.4 |
| 8 | 36.9 | 37.9 | 40.9 | 43.3 | 37.2 | 44.6 | 39.5 | 39.1 | 22.0 |
| 10 | 39.1 | 40.0 | 43.1 | 45.7 | 39.3 | 46.9 | 41.6 | 41.3 | 23.8 |
| 12 | 41.3 | 42.1 | 45.4 | 48.0 | 41.4 | 49.4 | 43.9 | 43.6 | 25.6 |
| 14 | 43.6 | 44.3 | 47.8 | 50.5 | 43.6 | 51.9 | 46.2 | 46.0 | 27.5 |
| 16 | 45.9 | 46.5 | 50.2 | 53.0 | 45.9 | 54.4 | 48.6 | 48.4 | 29.4 |
| 18 | 48.3 | 48.9 | 52.7 | 55.6 | 48.2 | 57.1 | 51.1 | 50.9 | 31.4 |
| 20 | 50.8 | 51.2 | 55.3 | 58.2 | 50.6 | 59.8 | 53.6 | 53.5 | 33.5 |
| 22 | 53.4 | 53.7 | 58.0 | 61.0 | 53.1 | 62.6 | 56.2 | 56.1 | 35.6 |
| 24 | 56.0 | 56.2 | 60.7 | 63.8 | 55.7 | 65.5 | 58.9 | 58.8 | 37.9 |
| 26 | 58.8 | 58.8 | 63.5 | 66.7 | 58.3 | 68.5 | 61.6 | 61.6 | 40.2 |
| 28 | 61.6 | 61.4 | 66.4 | 69.6 | 61.0 | 71.5 | 64.4 | 64.5 | 42.6 |
| 30 | 64.4 | 64.2 | 69.3 | 72.7 | 63.7 | 74.7 | 67.3 | 67.5 | 45.0 |
| 32 | 67.4 | 67.0 | 72.4 | 75.8 | 66.6 | 77.9 | 70.3 | 70.5 | 47.6 |
| 34 | 70.4 | 69.8 | 75.5 | 79.0 | 69.5 | 81.2 | 73.4 | 73.6 | 50.2 |
| 36 | 73.6 | 72.8 | 78.7 | 82.3 | 72.5 | 84.6 | 76.5 | 76.8 | 52.9 |
| 38 | 76.8 | 75.8 | 82.0 | 85.7 | 75.6 | 88.0 | 79.8 | 80.1 | 55.7 |
| 40 | 80.1 | 78.9 | 85.4 | 89.2 | 78.7 | 91.6 | 83.1 | 83.5 | 58.6 |
| 42 | 83.4 | 82.1 | 88.8 | 92.7 | 81.9 | 95.3 | 86.5 | 87.0 | 61.6 |
| 44 | 86.9 | 85.4 | 92.4 | 96.4 | 85.3 | 99.0 | 90.0 | 90.5 | 64.7 |
| 46 | 90.5 | 88.7 | 96.0 | 100.1 | 88.7 | 102.9 | 93.5 | 94.2 | 67.9 |
| 48 | 94.1 | 92.1 | 99.8 | 104.0 | 92.2 | 106.8 | 97.2 | 97.9 | 71.1 |
| 50 | 97.9 | 95.6 | 103.6 | 107.9 | 95.7 | 110.8 | 101.0 | 101.8 | 74.5 |

| | Bubble | Bubble | Bubble | Bubble | Bubble | Bubble | Bubble | Bubble | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| °F | PSIG | PSIG | PSIG | PSIG | PSIG | PSIG | PSIG | PSIG | PSIG |
| 60 | 125.4 | 114.5 | 126.0 | 129.2 | 116.1 | 137.4 | 127.0 | 128.4 | 92.9 |
| 62 | 129.9 | 118.5 | 130.5 | 133.7 | 120.3 | 142.1 | 131.4 | 132.9 | 96.9 |
| 64 | 134.4 | 122.6 | 135.0 | 138.4 | 124.5 | 147.0 | 135.9 | 137.5 | 101.1 |
| 66 | 139.1 | 126.9 | 139.7 | 143.1 | 128.8 | 151.9 | 140.5 | 142.3 | 105.3 |
| 68 | 143.8 | 131.2 | 144.4 | 148.0 | 133.3 | 156.9 | 145.3 | 147.1 | 109.7 |
| 70 | 148.7 | 135.6 | 149.3 | 153.0 | 137.8 | 162.1 | 150.1 | 152.1 | 114.2 |
| 72 | 153.7 | 140.1 | 154.3 | 158.1 | 142.5 | 167.4 | 155.1 | 157.1 | 118.8 |
| 74 | 158.7 | 144.7 | 159.4 | 163.3 | 147.2 | 172.8 | 160.1 | 162.3 | 123.5 |
| 76 | 164.0 | 149.4 | 164.6 | 168.6 | 152.1 | 178.3 | 165.3 | 167.6 | 128.3 |
| 78 | 169.3 | 154.2 | 169.9 | 174.1 | 157.0 | 183.9 | 170.6 | 173.0 | 133.3 |
| 80 | 174.7 | 159.1 | 175.4 | 179.6 | 162.1 | 189.7 | 176.0 | 178.6 | 138.4 |
| 82 | 180.3 | 164.1 | 181.0 | 185.3 | 167.3 | 195.5 | 181.5 | 184.2 | 143.7 |
| 84 | 185.9 | 169.3 | 186.7 | 191.1 | 172.6 | 201.5 | 187.1 | 190.0 | 149.1 |
| 86 | 191.7 | 174.5 | 192.5 | 197.1 | 178.0 | 207.6 | 192.8 | 195.9 | 154.6 |
| 88 | 197.7 | 179.8 | 198.4 | 203.1 | 183.5 | 213.9 | 198.7 | 201.9 | 160.3 |
| 90 | 203.7 | 185.3 | 204.5 | 209.3 | 189.2 | 220.3 | 204.7 | 208.1 | 166.1 |
| 92 | 209.9 | 190.8 | 210.7 | 215.6 | 194.9 | 226.8 | 210.8 | 214.4 | 172.0 |
| 94 | 216.2 | 196.5 | 217.0 | 222.1 | 200.8 | 233.4 | 217.0 | 220.8 | 178.1 |
| 96 | 222.6 | 202.3 | 223.4 | 228.7 | 206.8 | 240.2 | 223.4 | 227.3 | 184.4 |
| 98 | 229.2 | 208.2 | 230.0 | 235.4 | 212.9 | 247.1 | 229.9 | 234.0 | 190.8 |
| 100 | 235.9 | 214.3 | 236.8 | 242.3 | 219.2 | 254.2 | 236.5 | 240.8 | 197.3 |
| 102 | 242.7 | 220.4 | 243.6 | 249.3 | 225.5 | 261.4 | 243.3 | 247.8 | 204.0 |
| 104 | 249.7 | 226.7 | 250.6 | 256.5 | 232.0 | 268.7 | 250.1 | 254.9 | 210.9 |
| 106 | 256.8 | 233.1 | 257.8 | 263.8 | 238.7 | 276.2 | 257.2 | 262.1 | 217.9 |
| 108 | 264.1 | 239.6 | 265.1 | 271.2 | 245.4 | 283.8 | 264.3 | 269.5 | 225.1 |
| 110 | 271.5 | 246.3 | 272.5 | 278.8 | 252.3 | 291.6 | 271.6 | 277.1 | 232.5 |
| 112 | 279.1 | 253.0 | 280.1 | 286.6 | 259.4 | 299.5 | 279.1 | 284.8 | 240.0 |
| 114 | 286.8 | 260.0 | 287.9 | 294.5 | 266.6 | 307.6 | 286.7 | 292.6 | 247.7 |
| 116 | 294.6 | 267.0 | 295.8 | 302.6 | 273.9 | 315.9 | 294.4 | 300.6 | 255.6 |
| 118 | 302.7 | 274.2 | 303.8 | 310.8 | 281.3 | 324.3 | 302.3 | 308.8 | 263.7 |
| 120 | 310.8 | 281.5 | 312.1 | 319.2 | 288.9 | 332.8 | 310.3 | 317.1 | 271.9 |
| 125 | 331.9 | 300.4 | 333.3 | 340.9 | 308.6 | 354.9 | 331.0 | 338.6 | * |
| 130 | 354.1 | 320.2 | 355.6 | 363.8 | 329.2 | 378.1 | 352.7 | 361.2 | * |
| 135 | 377.4 | 340.9 | 379.1 | 387.8 | 350.7 | 402.4 | 375.4 | 384.9 | * |
| 140 | 401.8 | 362.6 | 403.7 | 413.0 | 373.3 | 427.8 | 399.2 | 409.7 | * |
| 145 | 427.4 | 385.3 | 429.6 | 439.5 | 397.0 | 454.4 | 424.0 | 435.8 | * |
| 150 | 454.2 | 409.0 | 456.8 | 467.4 | 421.7 | 482.3 | 450.0 | 463.3 | * |

REFRIGERANT USES

- HOT SHOT > R12, R134a, R500, R401A, R401B, R409A, R416A, R420A, RB276**
- ONE SHOT®(C) > R502, R22 (REF), R402A, R402B, R404A, R408A, R507A, R422A**
- NU22B > R22, R407C, R-417A**

ALWAYS CHARGE BLENDS IN LIQUID STATE
5000 ft Elevation - PSIG + 2.3

APPROXIMATE PRESSURE CONTROL SETTINGS - PSIG

| TEMPERATURE RANGE °F | EVAP TD | HOT SHOT | | NU-22B | | ONE SHOT®(C) | |
|----------------------|---------|----------|-----|--------|-----|--------------|----|
| | | OUT | IN | OUT | IN | OUT | IN |
| 35 to 38 | 15 | 19 | 36 | 32 | 50 | 51 | 89 |
| 32 to 35 | 15 | 16 | 32 | 30 | 54 | 47 | 78 |
| 26 to 29 | 15 | 13 | 28 | 25 | 44 | 41 | 69 |
| -10 to 0 | 10 | 3 | 8 | 4 | 18 | 14 | 32 |
| -30 to -20 | 10 | N/A | N/A | N/A | N/A | 3 | 16 |

BOLD - Pump down settings



SYSTEM QUESTION? Call
Tech-2-Tech 866.433.8324
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UPT