



# MAXIMUM SAVINGS, ZERO CHANGES REFRIGERANT **RS-53 (R-470A)**



- ✓ **DIRECT SUBSTITUTE (DROP-IN)**
- ✓ **MORE ENVIRONMENTALLY FRIENDLY: GWP=977**
- ✓ **DOES NOT DEplete THE OZONE LAYER**
- ✓ **SIMILAR COOLING CAPACITY AND COP VS. R-410A**
- ✓ **INSTALLATION OF THE FUTURE:**  
**SUITABLE FOR NEW INSTALLATIONS AND RETROFITTING**
- ✓ **NON-FLAMMABLE (A1)**

RS-53 (R-470A) is a zeotropic HFC+HFO refrigerant gas mixture that does not damage the ozone layer, is NON-flammable and has very low global warming potential (GWP=977), used as a direct replacement (drop-in) for R-410A.

## APPLICATIONS

- ✓ New air conditioning and industrial refrigeration equipment: splits, ducts, VRV, chillers. 
- ✓ Maintenance and conversion of existing R-410A equipment (retrofit). 

## BENEFITS

- ✓ GWP=977, 54% lower than R-410A.
- ✓ Ideal for retrofit: Compatible lubricant, materials and components. Easy, fast and economical retrofit.
- ✓ Compatible lubricants: Polyolester (POE).
- ✓ Cooling capacity and COP similar to R-410A.
- ✓ Mass flow: similar to R-410A (valid for capillary, TXV and EEV).
- ✓ Discharge pressure: lower than R-410A.
- ✓ No ozone depletion (ODP=0).
- ✓ Safety classification: A1. **Non-flammable and low toxicity.**
- ✓ Replaces R-410A in A/C and refrigeration applications.

## R-470A RS-53



### Drop-in direct replacement

Compatible with POE lubricants, installation materials and components, and with all expansion systems (capillary and TXV).

### A future-proof, non-flammable refrigerant with very low GWP

RS-53 (R-470A) has a low GWP, making it more environmentally friendly. In addition, its safety rating is A1.

| °C  | PRESSURE/TEMPERATURE TABLE |       |       |
|-----|----------------------------|-------|-------|
|     | HFC / HFC-HFO (bar)        |       |       |
|     | R-410A                     | RS-53 |       |
| -50 | 0,08                       | 0,80  | -0,53 |
| -48 | 0,19                       | 0,96  | -0,47 |
| -46 | 0,31                       | 1,13  | -0,41 |
| -44 | 0,45                       | 1,31  | -0,34 |
| -42 | 0,59                       | 1,50  | -0,27 |
| -40 | 0,74                       | 1,71  | -0,19 |
| -38 | 0,91                       | 1,92  | -0,10 |
| -36 | 1,08                       | 2,15  | -0,01 |
| -34 | 1,27                       | 2,39  | 0,09  |
| -32 | 1,47                       | 2,65  | 0,21  |
| -30 | 1,69                       | 2,91  | 0,32  |
| -28 | 1,92                       | 3,20  | 0,45  |
| -26 | 2,16                       | 3,49  | 0,59  |
| -24 | 2,43                       | 3,81  | 0,74  |
| -22 | 2,70                       | 4,13  | 0,90  |
| -20 | 2,99                       | 4,48  | 1,07  |
| -18 | 3,30                       | 4,84  | 1,25  |
| -16 | 3,63                       | 5,22  | 1,45  |
| -14 | 3,98                       | 5,61  | 1,66  |
| -12 | 4,35                       | 6,03  | 1,88  |
| -10 | 4,73                       | 6,46  | 2,11  |
| -8  | 5,14                       | 6,91  | 2,36  |
| -6  | 5,57                       | 7,38  | 2,63  |
| -4  | 6,02                       | 7,87  | 2,91  |
| -2  | 6,50                       | 8,38  | 3,21  |
| 0   | 6,99                       | 8,91  | 3,52  |
| 2   | 7,52                       | 9,46  | 3,85  |
| 4   | 8,07                       | 10,03 | 4,21  |
| 6   | 8,64                       | 10,62 | 4,58  |
| 8   | 9,24                       | 11,24 | 4,97  |
| 10  | 9,87                       | 11,88 | 5,38  |
| 12  | 10,53                      | 12,54 | 5,81  |
| 14  | 11,22                      | 13,23 | 6,27  |
| 16  | 11,93                      | 13,94 | 6,75  |
| 18  | 12,68                      | 14,67 | 7,25  |
| 20  | 13,46                      | 15,43 | 7,78  |
| 22  | 14,28                      | 16,21 | 8,33  |
| 24  | 15,13                      | 17,02 | 8,91  |
| 26  | 16,01                      | 17,85 | 9,52  |
| 28  | 16,93                      | 18,71 | 10,16 |
| 30  | 17,88                      | 19,60 | 10,82 |
| 32  | 18,87                      | 20,51 | 11,52 |
| 34  | 19,91                      | 21,45 | 12,25 |
| 36  | 20,98                      | 22,42 | 13,01 |
| 38  | 22,09                      | 23,42 | 13,80 |
| 40  | 23,24                      | 24,44 | 14,63 |
| 42  | 24,44                      | 25,49 | 15,50 |
| 44  | 25,68                      | 26,57 | 16,40 |
| 46  | 26,97                      | 27,68 | 17,34 |
| 48  | 28,31                      | 28,81 | 18,32 |

Relative / gauge pressure.