

RS-44

The Only *Proven* R22 Replacement!

Used in Europe for over 10 years



- Good for Cap Tubes & TXV
- Operates at Lower Pressure

TRUE DROP-IN REPLACEMENT FOR R-22.

NO OIL CHANGES.

NO SYSTEM CHANGES REQUIRED.

Made in the U.S.A. 

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RS Products!



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"QR Reader" and SELECT(FREE APP)



ADVANTAGES

RS SERIES REFRIGERANTS

A "DROP-IN" R22 REPLACEMENT

1. RS-44 (R424A) is the only approved R22 replacement drop-in refrigerant by Carrier.
2. RS-44 operates in R22 systems without requiring an oil change to expensive synthetic oil.
3. RS-44 has the benefit of lower energy consumption.
4. RS-44 operates at near capacity of R22.
5. RS-44 operates at lower discharge pressure & temperatures thereby reducing compressor workload.
6. RS-44 can be mixed with R22 without any system performance problems (if a service tech. inadvertently mixes the two refrigerants).
7. RS-44 has been operating in all types of systems with all types of compressors worldwide for the past 8 years. No other R22 alternative refrigerant can make this claim.
8. RS-44 is produced in Texas, the UK and China.

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R22 “DROP-IN” REPLACEMENT REFRIGERANTS “RS REFRIGERANT SERIES BENEFITS”

ComStar International Inc., a 42 year old chemical company, is one of only three companies in the world that have “DROP-IN” direct replacements HFC refrigerants for R-22, R-12 and R502 systems, **RS-44 (R424a)**, **RS-24 (R426a)** and **RS-52 (R428a)** respectively. In addition, **RS-45 (R434a)** is the only R22 replacement for flooded systems. These unique refrigerants have been in use worldwide for the past 7 to 9 years. They offer the following proven cost saving benefits:

- **Meets LEED Credit EA-4** Ozone depletion requirement
- **Safer** for the environment, EPA SNAP approved.
- Operate with **all refrigeration oils**, including mineral oil.
- **No oil change** is required.
- **No new hardware** is necessary.
- Operate with **lower discharge pressure & temperatures**.
- Provides **better oil return** to the compressor.
- **RS-24, RS-45 and RS-52** have a **low glide** of less than 1 Degree F and **RS-44** is at 2 degree F.

These patented, ASHRAE classified refrigerants have an A1 safety rating, meet ISO 14001 standards and are SNAP approved by the EPA.

NOTE: **RS-44 (R424a)** is the choice for comfort cooling applications (air conditioning). **RS-45 (R434a)** is the choice for low temp. and flooded chiller applications.

ComStar is a leader in the development of environmentally safe, industrial strength chemical products for the HVACR industry sold worldwide through leading HVACR wholesalers and distributors.

For additional product information or where you can obtain our products, please call us toll free at **1-800-328-0142** or visit our website at www.comstarproducts.com. ******Download our RS Series free App (i-Phone or Android) for P/T Charts, Replacement guide, applications and more by entering the APP store and searching for: RS Refrigerant**

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GENERAL REPLACEMENT GUIDE

CFC

1996

R-12

R-502

HCFC

JANUARY 2010

R-401A (MP39)
R-401B (MP66)
R-409A (FX56)
R-414B (HOTSHOT)

R-402A (HP80)
R-402B (HP81)
R-408A (FX10)

R-22

HFC

R-426A
(RS-24)

R-428A
(RS-52)

R-424A
(RS-44)
See R-22
Replacement
Guide for
details

R-434A
(RS-45)
See R-22
Replacement
Guide for
details

R-22 REPLACEMENT GUIDE

R-22 AIR CONDITIONING

CHILLERS

Shell & Tube
(Flooded and
Non-flooded)

Tube & Tube

Plate Type

R-434A (RS-45)

R-424A (RS-44)

R-424A (RS-44)

R-424A (RS-44)

AIR SYSTEMS

All Types

R-22 REFRIGERATION

LOW TEMP
SST* -6C (19F) &
BELOW

R-434A (RS-45)

MEDIUM TEMP
SST* -5C (20F) &
ABOVE

R-424A (RS-44)

*Saturated Suction Temperature



RS-24 • RS-44

RS-45 • RS-52

- 1) ASHRAE Safety Rating A1 (non-flammable)
- 2) Zero ODP
- 3) No oil change required
- 4) No retrofit needed for most applications
- 5) Low glide, near azeotropic



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