



**宁波考尔曼制冷工业有限公司**  
NINGBO KOMAN'S REFRIGERATION INDUSTRY CO.,LTD.

地址：中国浙江省宁波市北仑霞浦精细化工园永定河路20号  
电话：(0574)86910068  
传真：(0574)86910070  
E-mail: info@kri.cn

Add: 20 Yongdinghe Rd., Fine Chemical District, Xiapu BeiLun, Ningbo, China  
Tel: + 86 574 87193218  
Fax: + 86 574 87307052  
E-mail: sales@kri.cn

# Koman's Refrigeration

NINGBO KOMAN'S REFRIGERATION INDUSTRY CO.,LTD.

[www.kri.cn](http://www.kri.cn)



## About US

Ningbo Koman's Refrigeration Industry Co.,LTD, as a member of Sino-Resource Group( <http://www.sino-resource.com/> ), is specialized in producing the substitute of CFC and blended environment-protective refrigerant such as R404A, R406A, R407C,R408A, R409A, R507 and pure refrigerants such as R600A, R134A, R124, R125, R22, R142b, R32, R143a, R152a etc.

With high quality, competitive prices and professional services, our products are selling throughout all over the world, especially in Europe, Middle East, Asia, South America, and our brand Koman's enjoys very good reputation.

Meanwhile, we keep the close relationship with scientific research organizations to catch the development trend.

We dedicate to the Best Quality, Best Service and Best Technology.





**KOMAN'S**  
REFRIGERATION



**Product: R22 Chlorodifluoromethane**

Package: Disposable steel cylinder 30LBS/13.6KGS,  
50LBS/22.7KGS,refillable steel cylinder 12L,14.3L,  
steel cylinder 400L,800L,926,ISO tank.

Quality Standard:  
Purity,% $\geq$ 99.8  
Moisture,ppm $\leq$ 10  
Acidity,ppm $\leq$ 1  
Vapor Residue,ppm $\leq$ 100  
Appearance,Colorless



Product:  
R22



Product:  
R134A



**Product: R134A**

Package: Disposable steel cylinder 30LBS/13.6KGS,  
refillable steel cylinder 12L,14.3L,steel cylinder  
400L,800L,926L,ISO tank.

Quality Standard:  
Purity,% $\geq$ 99.5  
Moisture,ppm $\leq$ 10  
Acidity,ppm $\leq$ 1  
Vapor Residue,ppm $\leq$ 100  
Appearance,Colorless





**KOMAN'S**  
REFRIGERATION



**Product: R404A**

R404A continues to lead the way as the global industry standard HFC refrigerant for new commercial refrigeration applications. R404A delivers exceptional capacity and efficiency as an R-502 and R-22 replacement in refrigeration applications and is approved for use by the leading compressor and equipment manufacturers worldwide.

Package: Disposable steel cylinder 24LBS/10.9KGS, refillable steel cylinder 12L,14.3L,steel cylinder 400L,800L,926,ISO tank.

Quality Standard:  
Purity,% $\geq$ 99.5  
Moisture,ppm $\leq$ 10  
Acidity,ppm $\leq$ 1  
Vapor Residue,ppm $\leq$ 100  
Appearance,Coloress



Product:  
**R404A**



Product:  
**R410A**



**Product: R410A**

R410A is the leading HFC refrigerant for replacing R-22 in positive displacement residential and light commercial air-conditioning and heat pump systems. It has higher cooling capacity and significantly higher pressure than R-22 and should be used only in systems specifically designed for R-410A.

Package: Disposable steel cylinder 25LBS/11.3KGS, refillable steel cylinder 12L,14.3L,steel cylinder 926L,ISO tank.

Quality Standard:  
Purity,% $\geq$ 99.5  
Moisture,ppm $\leq$ 10  
Acidity,ppm $\leq$ 1  
Vapor Residue,ppm $\leq$ 100  
Appearance,Coloress





Product: R507

**Product: R507**

R507 is an HFC replacement option for R-22 and R-502 in commercial refrigeration systems. It can be used in new and existing systems, and provides very similar performance to R-502 over the entire operating range.

Package: Disposable steel cylinder 25LBS/11.3KGS, 50LB/22.7KG, refillable steel cylinder 12L, 14.3L, steel cylinder 800L, 926L, ISO tank.

Quality Standard:  
Purity, %  $\geq 99.5$   
Moisture, ppm  $\leq 10$   
Acidity, ppm  $\leq 1$   
Vapor Residue, ppm  $\leq 100$   
Appearance, Colorless



Product: R407C

**Product: R407C**

R407C is an HFC refrigerant replacement for R-22 in positive displacement systems such as new or existing residential and commercial air-conditioners and heat pumps. R407C offers similar performance to R-22 and can be used to retrofit existing R-22 air-conditioning systems. R407C can also be used to replace R-502 for some existing medium-temperature applications with evaporator temperatures above +20°F (-7°C).

Package: Disposable steel cylinder 25LBS/11.3KGS, refillable steel cylinder 12L, 14.3L, steel cylinder 400L, 926L, ISO tank.

Quality Standard:  
Purity, %  $\geq 99.5$   
Moisture, ppm  $\leq 10$   
Acidity, ppm  $\leq 1$   
Vapor Residue, ppm  $\leq 100$   
Appearance, Colorless

**Product: R401A**

R401A is an HCFC retrofit refrigerant for R-12 in stationary positive displacement air-conditioning and refrigeration systems such as walk-in coolers, beverage dispensers, vending machines, and supermarket systems. Field experience has shown that no oil change is needed in many unitary and close-coupled systems.

Package: Disposable steel cylinder 30LBS/13.6KGS, refillable steel cylinder 12L, 14.3L, steel cylinder 400L, 800L, 926L, ISO tank.

Quality Standard:  
Purity, %  $\geq 99.5$   
Moisture, ppm  $\leq 10$   
Acidity, ppm  $\leq 1$   
Vapor Residue, ppm  $\leq 100$   
Appearance, Colorless



Product: R401A

**Product: R402B**

R402B is an HCFC retrofit refrigerant for R-502 in limited applications where a 10°F to 20°F (5.5°C to 11°C) increase in compressor discharge temperature is desirable, such as some ice machines and other self-contained systems. Field experience has shown that no oil change is needed in many unitary and close-coupled systems.

Package: Disposable steel cylinder 26LBS/11.8KGS, refillable steel cylinder 12L, 14.3L, steel cylinder 400L, 800L, 926L, ISO tank.

Quality Standard:  
Purity, %  $\geq 99.9$   
Moisture, ppm  $\leq 10$   
Acidity, ppm  $\leq 1$   
Vapor Residue, ppm  $\leq 100$   
Appearance, Colorless



Product: R402B



Product: R125

**Product: R125 Chlorodifluoromethane**

Package: Disposable steel cylinder 17.6KGS/22.3LS, steel cylinder 926L, ISO tank

Quality Standard:  
Purity, %  $\geq 99.8$   
Moisture, ppm  $\leq 10$   
Acidity, ppm  $\leq 1$   
Vapor Residue, ppm  $\leq 100$   
Appearance, Colorless

**Product: R407C**

R407C is an HFC refrigerant replacement for R-22 in positive displacement systems such as new or existing residential and commercial air-conditioners and heat pumps. R407C offers similar performance to R-22 and can be used to retrofit existing R-22 air-conditioning systems. R407C can also be used to replace R-502 for some existing medium-temperature applications with evaporator temperatures above +20°F (-7°C).

Package: Disposable steel cylinder 25LBS/11.3KGS, refillable steel cylinder 12L, 14.3L, steel cylinder 400L, 926L, ISO tank.

Quality Standard:  
Purity, %  $\geq 99.5$   
Moisture, ppm  $\leq 10$   
Acidity, ppm  $\leq 1$   
Vapor Residue, ppm  $\leq 100$   
Appearance, Colorless





**Product: R406A Chlorodifluoromethane**

R406a is an HCFC replacement for R-12, condensing pressure is higher than R12, charge volume reduce 20% than R12, no oil change needed.

Package: Disposable steel cylinder 30LBS/13.6KGS, refillable steel cylinder 12L, 14.3L, steel cylinder 400L, 800L, 926L, ISO tank.

Quality Standard:  
Purity, %  $\geq 99.5$   
Moisture, ppm  $\leq 10$   
Acidity, ppm  $\leq 1$   
Vapor Residue, ppm  $\leq 100$   
Appearance, Colorless



Product:  
**R406A**



Product:  
**R408A**



**Product: R408A**

R408A, an HCFC-based refrigerant, is a retrofit refrigerant option for replacing R-502 in existing low- and medium-temperature commercial refrigeration systems such as supermarket systems. It is an alternative to R402A where lower operating pressures are desired such as in older systems with limited condensing capacity. No oil change is needed in many unitary and close-coupled systems.

Package: Disposable steel cylinder 24LBS/10.9KGS, refillable steel cylinder 12L, 14.3L, steel cylinder 400L, 800L, 926L, ISO tank.

Quality Standard:  
Purity, %  $\geq 99.5$   
Moisture, ppm  $\leq 10$   
Acidity, ppm  $\leq 1$   
Vapor Residue, ppm  $\leq 100$   
Appearance, Colorless





**Product: R409A**

R409A, an HCFC-based refrigerant, is a cost-effective retrofit refrigerant for R-12 stationary positive displacement air-conditioning and refrigeration systems such as walk-in coolers, beverage dispensers, vending machines, and supermarket systems. No oil change is needed in many unitary and close-coupled systems.

Package: Disposable steel cylinder 30LBS/13.6KGS, refillable steel cylinder 12L,14.3L,steel cylinder 400L,800L,926,ISO tank.

Quality Standard:  
Purity,% ≥99.5  
Moisture,ppm ≤10  
Acidity,ppm ≤1  
Vapor Residue,ppm ≤100  
Appearance,Coloress



Product: R409A



**Product: R417A**

R417A is a cost-effective, non-ozone-depleting HFC retrofit refrigerant for R-22 in direct expansion stationary air conditioning and medium-temperature commercial refrigeration systems.

Package: Disposable steel cylinder 12LBS/14.3KGS, refillable steel cylinder 12L,14.3L,steel cylinder 926L,ISO tank.

Quality Standard:  
Purity,% ≥99.8  
Moisture,ppm ≤10  
Acidity,ppm ≤1  
Vapor Residue,ppm ≤100  
Appearance,Coloress



Product: R417A



Product: R415B



**Product: R415B**

R415B is an HCFC-based refrigerant for replacing R12 & R134a, especially for aftermarket of car air conditioning. Charging volume should be 75%~80% than usual.

Package: Disposable steel cylinder 26.5LBS/12KGS, refillable steel cylinder 12L,14.3L,steel cylinder 400L,926,ISO tank.

Quality Standard:  
Purity,% ≥99.6  
Moisture,ppm ≤10  
Acidity,ppm ≤1  
Vapor Residue,ppm ≤100  
Appearance,Coloress



Product: R600A



**Product: R600A**

Package: Disposable steel cylinder 14.3LBS/6.5KGS, refillable steel cylinder 12L,14.3L,steel cylinder 926,ISO tank.

Quality Standard:  
Purity,% ≥99.5  
Moisture,ppm ≤10  
Acidity,ppm ≤1  
Vapor Residue,ppm ≤100  
Appearance,Coloress





Product:  
**R123**

**Product: R123 Dichlorotrifluoroethane**

Package: 50KG,100KG, 250KG, ISO tank.

Quality Standard:  
Purity, % ≥99.8  
Moisture, ppm ≤20  
Acidity, ppm ≤1  
Vapor Residue, ppm ≤100  
Appearance, Colorless



Product:  
**Isopentane**

**Product: Isopentane**

Package: steel drum 125KG, ISO tank

Application: Can be mixed with n-pentane to make EPS and it also can be mixed with cyclopentane as a foaming agent for rigid urethane form.

Quality Standard:  
C4, % ≤1.5  
Isopentane, % ≤98  
n-Pentane, % ≤1.5  
C6, % ≤0.1  
Sulfur, (ppm) ≤2  
Appearance, Colorless and transparent liquid



Product:  
**R142B**

**Product: R142B Chlorodifluoromethane**

Package: Disposable steel cylinder 30LB/13.6KG, 50LB/22.7KG, refillable steel cylinder 12L, 14.3L, steel cylinder 400L, 800L, 926L, ISO tank.

Quality Standard:  
Purity, % ≥99.5  
Moisture, ppm ≤10  
Acidity, ppm ≤0.1  
Vapor Residue, ppm ≤100  
Appearance, Colorless



Product:  
**R141B**

**Product: R141B Dichlorofluoroethane**

Package: Disposable steel cylinder 30LB/13.6KG, Steel drum 250KG, ISO tank.

Quality Standard:  
Purity, % ≥99.8  
Moisture, ppm ≤30  
Acidity, ppm ≤0.1  
Vapor Residue, ppm ≤100  
Appearance, Colorless



Product:  
**Cyclopentane**

**Product: Cyclopentane**

Package: steel drum 145KG, ISO tank

Application: Used as a new foaming agent for rigid polyurethane foam and can be substituted for CFCs which destroys the atmospheric ozone layer.

Quality Standard:  
Cyclopentane, % ≥98  
Isopentane ≤0.1  
n-Pentane, % ≤1  
2,2 Dimethyl Butane, % ≤100  
Heavy component, % ≤0.5  
Sulfur (ppm) ≤5.0  
Appearance, Colorless and transparent liquid



Product:  
**Pentane**

**Product: Pentane**

Package: Steel drum 210L, ISO tank

Application: Used as a foaming agent of EPS  
Quality Standard:  
Initial boiling point, °C ≥50  
98% recovered temperature, °C ≤10  
Pentane, % ≥98  
Light component, % ≤1  
Heavy component, % ≤1  
Appearance, Colorless and transparent liquid



**Product: CF4(R14)**

Quality Standard:  
1. (CF4) Carbon tetrafluoride % (v/v) ≥99.999  
2. Nitrogen ppm (v/v) ≤3.0  
3. Oxygen ppm (v/v) ≤1.0  
4. Moisture ppm (v/v) ≤2.0  
5. Carbon monoxide ppm (v/v) ≤0.1  
6. Carbon dioxide ppm (v/v) ≤2.0  
7. (SF6) Sulfur Hexafluoride ppm (v/v) ≤1.0  
8. Halogen carbonyl compounds ppm (v/v) ≤1.0  
9. Acidity (express as HF) ppm (v/v) ≤0.1



**Product: SF6**

Quality Standard:  
Purity, % ≥99.99  
Air, % ≤0.05  
CF4, % ≤0.0002  
Hydrolyzable fluorides, (ug/g) ≤0.2  
Moisture, ≤0.6  
Oil Content, (ug/g) ≤0.5  
Package: Steel cylinder 110LB/50KG



R600



# KOMAN'S

Ningbo Koman's Refrigeration Industry Co., Ltd.



**KOMAN'S**  
REFRIGERATION



Product:  
MAPP GAS



Product:  
PROPANE



Product:  
PROPANE

**Patent No.:**  
ZL 2008 1 0120453.2

Product:MAPP GAS

Application:welding, brazing and soldering

1. Actual burning temperature: approach 3600°H
2. The full burning time: nearly 3 hours
3. Scientific blend proportion and good flame to guarantee good welding result and shorten working time
4. Temperature (Degree Celsius) 20 degree C, Pressure (psig)110psig
5. Diameter 75mm, High 267mm, Gross weight 980g, convenient for holding and taking



Product:  
Welding  
Touch

Product: Welding Touch  
Available:MAPP GAS,PROPANE GAS



T-A



T-2B



T-B



T-D



Product: Refillable steel cylinder with EC

Specification: 12L, 14, 3L, 50L  
 Refrigerant available: R134A, R22, R401, R402A, R402B, R404A, R407C, R408A, R409A, R410A, R507 etc.  
 Valve available: Liquid/vapor valve, liquid valve.



Product: R-134A

Product: Steel can

Specification: 340g, 750g, 900g, 1000g  
 Refrigerant available: R134A  
 Valve available: Refillable valve, disposable vable.



Product: R-22

Product: Steel can

Specification: 500g, 800g  
 Refrigerant available: R22  
 Valve available: Refillable valve, disposable vable.



Product: R-600A

Product: Steel can

Specification: 420g  
 Refrigerant available: R600A  
 Valve available: Refillable valve, disposable vable.



Product: R-407C

Refrigerant available: R407C

Package: 1L High pressure cylinder  
 1/4 SAE connection  
 20pcs/carton  
 Net weight: 900g



Product: R-507

Refrigerant available: R507

Package: 1L High pressure cylinder  
 1/4 SAE connection  
 20pcs/carton  
 Net weight: 800g



Product: R-404A

Refrigerant available: R404A

Package: 1L High pressure cylinder  
 1/4 SAE connection  
 20pcs/carton  
 Net weight: 800g



Product: R-410A

Refrigerant available: R410A

Package: 1L High pressure cylinder  
 1/4 SAE connection  
 20pcs/carton  
 Net weight: 800g



R600



**KOMAN'S**

Ningbo Koman's Refrigeration Industry Co.,Ltd.