



**Harold Ag & Mobile Products**  
**Your Ag A/C Parts Specialist**  
**1-800-541-8910**  
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7-8-11



*"The Lower Pressure Solution for all Mobile Applications"*

### ***FR-12 COMPARED TO OTHER BLENDS***

- UL Classified A1/A1 (non-flammable!)
- ASHRAE Listed R-416A
- Lower Temperature Glide and Lower Pressure than R-22 blends
- Material Compatibility
- Factory Tech Support (800-406-2292)

*We're sorry, but Free Zone RB-276 refrigerant is no longer available. FR-12 is an excellent, comparable replacement.*

### ***PROVEN PERFORMANCE***

- FR-12 closely matches R-12 performance and pressures
- Compatible with mineral, Alkyl Benzene (AB), PAG, and Ester Oils (POE)
- Multiple top-offs without fractionation (separation)
- Less strain and longer compressor life
- Accepted for use in mobile and stationary applications
- Accepted for use as an R-134a replacement
- Reliable high-ambient temperature operation

### ***COST EFFECTIVE R-12 ALTERNATIVE***

- Less than 1/3 the price of R-12
- Simple adaptation of existing system components
- No system flushing required
- Use standard diagnostic R-12 equipment - Recovery Unit, Hoses, Gauges, Leak Detector

### ***ENVIRONMENTALLY FRIENDLY REFRIGERANT***

- Low Ozone Depletion Potential (ODP)
- Low Global Warming Potential (GWP)
- EPA "SNAP" Accepted
- Unique high-side and low-side fittings available
- A1/A1 classification means certified Non-toxic, Non-flammable

### **HOW SIMILAR IS IT TO FREE ZONE?**

**A lot!** FR-12 performs very close to R-12 or Free Zone in cooling your cab on hot days. It doesn't fractionate. It's not flammable. It won't destroy shaft seals. It doesn't require a system flush to change to FR-12. It's lighter than R-12, so you use 10% to 30% less, further reducing your cost. Lower pressures cut down system leaks. Lengthens compressor, clutch, belt, and drive pulley life.

**The only real difference?** With FR-12 you need to add 2 oz of esteroil to an R-12 system on the first charge. This is to help maintain lubrication to the compressor. No additional oil is needed when added to an R-134a system. Plus, FR-12 does not overcharge as easily as Free Zone - you have more leeway.

# FRIGC FR-12 REFRIGERANT

**Who uses FR-12?** FR-12 is used by EXXON/Mobile, US Army, US Air Force, Coast Guard, General Mills, Pepsi, L-3 Comm, and Nutrasweet.

## COMPARE IT TO R-134a

The table below compares the results of testing FR-12 and R-134a on our tabletop air conditioner system, made up of the following components:

Red Dot R-7830-0 Evaporator - 17,000 BTU's

Red Dot R-9720 Condenser - 27,000 BTU's

Sanden SD510 Compressor - 10 cu. in.

2 HP Electric Motor Driving Compressor at 2200 RPM.

Compressor is new, oil changed to esterol.

The same temperature of air was supplied to the condenser and evaporator.

	Condenser Inlet Fitting Temperature	Condenser Outlet Fitting Temperature	Evaporator Outlet Air Temperature	Low Side Pressure	High Side Pressure
<b>R-134a</b>					
80° air	200	140	51	17	237
100° air	200	140	80	23	300
<b>FR-12</b>					
80° air	160	120	55	14	200
100° air	180	145	64	21	250






The table verifies what everyone has reported: R-134a won't do the job at higher temperatures, while FR-12 is still working well.

We all know that under-hood and in-field temperatures can easily exceed 100°. Two problems are obvious - 80° is not cold enough to keep a cab comfortable, and high head pressures will make the compressor work much harder, reducing its life. A service tech told us about a customer using R-134a in his combine - his compressor burns up when the temperature gets up around 105° because the head pressure is too high.



**Please note:** 609 Certification is required and must be on file with us before making a purchase for any FRIGC refrigerant.

The following link is provided to obtain your [609 Certification](#).

**FR-12 FRIGC REFRIGERANTS (Prices subject to change without notice) 07/15/2011**

<b>Part No.</b>	<b>Description</b>	<b>Price</b>
	FR12-9 9.6 oz. Cans (12 per case)	\$10.10
	FR12-25 25 lb Cylinder	\$350.00
	3178 FR-12 to R-12 Adapter (Adapts 25 lb cylinder or 1361 can tap to R-12 guage set)	\$13.35
	1361 9.6 oz Can Tap	\$17.00
	3000 FR-12 Manifold Guage Set with 72" Hoses	\$160.00
	1254 Low Side Coupler	\$48.00
	1255 High Side Coupler	\$48.00
	1256 72" Blue Hose	\$24.00
	1266 72" Yellow Hose with Shut-Off	\$24.00
	1267 72" Red Hose	\$24.00
	B12-407 Charge Orifice Fitting (Prevents liquid slugging of compressor)	\$16.00
<b>FR-12 CHARGE PORT ADAPTER FITTINGS</b>		
<b>Part No.</b>	<b>Description</b>	<b>Price</b>
1010	Fitting Kit-Includes: 10-1251 Low Side 7/16" 7-1248 High Side 3/8" 3-1249 High Side 7/16" 10-1543 Labels	\$60.00

FR-12 CHARGE PORT ADAPTER FITTINGS		
Part No.	Description	Price
	1350 Master Installation Kit-Includes all 1010 items plus: 10-1248 3/8" High Side w/Cap 5-1547 7/16" GM High Side w/Cap 4-1250 Red High Side Cap 4-1252 Blue Low Side Cap 2-1533 3/8" High Side 90° w/Cap 2-1534 7/16" High Side 90° w/Cap 2-1535 7/16" Low side 90° w/Cap 1-1546 GM Pressure Switch Harness 1-1545 GM adjustable Cycling Clutch Pressure Switch 1-1536 3/8" High Side Str. 30 cm Flex Hose 1-1537 7/16" High/Low Str. 30 cm Flex Hose 1-1538 3/8" High Side 90° 30 cm Flex Hose 1-1540 3/8" High Side 90° 30 cm Flex Hose	\$120.00
	1248 3/8" High Side with Red Cap	\$13.35
	1249 7/16" High Side with Red Cap	\$13.35
	1251 7/16" Low Side with Blue Cap	\$13.35
	1253 R-12 to FR-12 Adapter	\$4.50
	1533 3/8" 90° High Side with Red Cap	\$13.35
	1534 7/16" 90° High Side with Red Cap	\$13.35
	1535 7/16" 90° Low Side with Blue Cap	\$13.35
	1547 7/16" GM High Side Fitting	\$13.35

FR-12 CHARGE PORT ADAPTER FITTINGS Cont.			
Part No.	Description	Price	
	1543 Label	\$0.30	
	1600 Farm (Older Auto) Adapter Set (Includes 2 fittings for 1/4" charge ports and 1 label)	\$27.00	
	1602 Auto Adapter Set (Includes 1 - 3/16" charge port fitting and 1 - 7/16" charge port fitting and 1-label)	\$27.00	