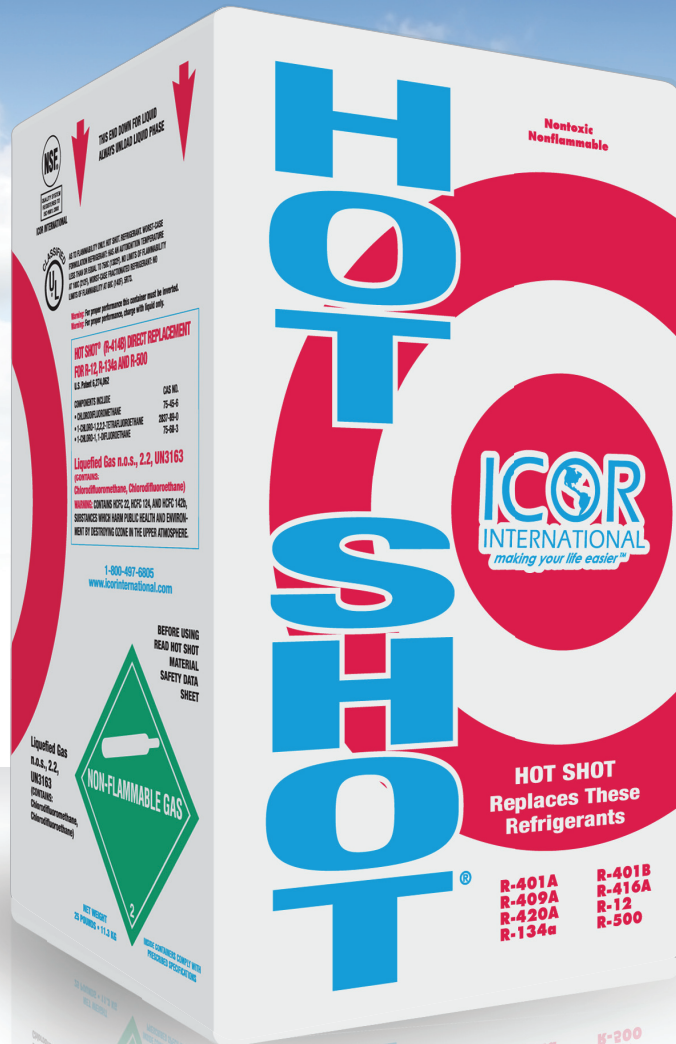


# The Direct Replacement of Choice!

The #1 R-12 Replacement in North America



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- Direct Replacement
- HCFC
- ASHRAE Designated R-414B
- EPA SNAP Listed

*Complete Specifications on Back*

**Impeccable Record of Field Performance**

For more information or to find a distributor near you, visit [www.icorinternational.com](http://www.icorinternational.com) or call 1-800-497-6805.

For Free Online Training at ICOR's Virtual Training Center, visit [www.icorvtc.com](http://www.icorvtc.com).

**ICOR**  
INTERNATIONAL  
"making your life easier™"

# HOT SHOT®

## System requirements

1. System must be designed for use with R-12, 134a and 500
2. System must be designed for a direct expansion metering device, i.e. TEV, cap tube, or fixed orifice
3. System should be operating within its design capacity.
4. System should be leak free
5. Compressor must be charged with lubricant as required by the OEM
6. Suction, discharge and liquid piping must be sized, trapped and insulated for systems temperature and BTU design.

## Evaporator Temperature Range

-15 °F to 50 °F

## Oils

MO, AB, POE, PVE and PAG

## Direct Replacement for Refrigerants

12, 134a, 500, 401A/B, 409A, 416A, 420A, 426A, 437A

## Pre and Post conversion data

- System information must be recorded for warranty.

Go to [www.icorinternational.com](http://www.icorinternational.com) for complete warranty information.

## Flooded systems

Must be approved by ICOR's Technical Support Supervisor

## System charging

1. Initially charge 80% of R-12, 90% R-134a and 100% of R-500. Do Not exceed 115% of OEM charge
2. Remove liquid only from cylinder
3. Charge refrigerant in the receiver or high side of the system with the compressor off.
4. Run system and add refrigerant if needed to design subcooling. Adjust TEV if needed. Never charge system by clearing sight glass
5. For Fixed Metering Device Systems. Charge by compressor superheat

## Conversion considerations

HOT SHOT is compatible with mineral oil, alkyl benzene and polyolester. In most cases no change of lubricant is required. Oil return is determined by a number of operating and design conditions. Minor equipment modifications (e.g. seal replacement, TEV adjustment) may be required.

## Benefits

- HOT SHOT is the number ONE R-12 replacement
- No TEV or cap tube replacement
- No oil change to AB or POE
- Can be topped off after leak has been repaired
- Widespread availability

## Applications

- R-12 and 134a low, medium and high temp refrigeration.
- R-12 and 500 air conditioning
- R-12 and 134a auto A/C

## Performance Comparison

- Same as R-12
- Higher than R-134a

## Note:

To install HOT SHOT in a Mobile A/C system please follow EPA and ICOR guidelines and procedures as shown in our MOBIL A/C INSTRUCTIONAL MANUAL (Form # HSIM). For Mobile A/C, Alternative refrigerants are subject to EPA use conditions.

Technicians must have a section 609 certification to purchase cylinders under 20 lbs. The 609 certification test is comprised of 25 question, open book and can be taken by purchasing the test directly from a wholesale distributor. IT IS THAT EASY !

EPA Hotline # 800.296.1996

[www.epa.gov](http://www.epa.gov)

## Technical Information

ASHRAE Designation	414B
Environmental Classification	HCFC
ASHRAE Standard 34 Safety Classification	A1
EPA/SNAP Accepted (S=Stationary M=Mobile)	S,M
Ozone Depletion Potential	0.043
Global Warming Potential	1339
Oil Compatibility	All
Molar Mass lbm/lbmol	101.59
Normal Boiling Point (1 atm, °F)	-27.16
Critical Pressure (psia)	665.96
Critical Temperature (°F)	231.79
Critical Density (lbm/ft <sup>3</sup> )	31.68
Liquid Density (70 °F, lbm/ft <sup>3</sup> )	76.64
Vapor Density (NBP, lbm/ft <sup>3</sup> )	0.2219
Temperature Glide (NBP)	15
Temperature Glide (100 °F)	12
Pounds Per Gallon (70 °F)	10.24
Maximum Moisture (ppm)	10
Maximum Non-Condensables (% vol)	1.5
Maximum High Boiling Impurities (% vol)	0.01
Recommended Maximum Exposure Limits in Air (ppm)	1000
R-22 (% Weight)	50
R-600a (% Weight)	1.5
R-124 (% Weight)	39
R-142b (% Weight)	9.5

For further and Technical Assistance, please call our  
ICOR International Technical Support Team  
**1-800-497-6805**

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